Developing a Price Index of Schools Projects in Saudi Arabia

by

Khaled Raiyes Muhsen Al-Helali

A Thesis Presented to the

FACULTY OF THE COLLEGE OF GRADUATE STUDIES

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DHAHRAN, SAUDI ARABIA

In Partial Fulfillment of the Requirements for the Degree of

MASTER OF SCIENCE

In

CONSTRUCTION ENGINEERING AND MANAGEMENT

June, 1996

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DEVELOPING A PRICE INDEX FOR SCHOOL PROJECTS IN SAUDI ARABIA

KHALED RAIYES MUHSEN AL-HELALI

CONSTRUCTION ENGINEERING AND MANAGEMENT

JUNE, 1996

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS DHAHRAN, SAUDI ARABIA

This thesis, written by Khaled Raiyes Muhsen Al-Helali, under the direction of his Thesis Committee, and approved by all the members, has been presented and accepted by the Dean, College of Graduate Studies, in partial fulfillment of the requirements for the Degree of MASTER OF SCIENCE IN CONSTRUCTION ENGINEERING AND MANAGEMENT.

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DEDICATION

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I dedicate this work to my family members for their continued moral support and encouragement.

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THESIS ABSTRACT

FULL NAME OF STUDENT	:	Khalid Raiyes Muhsen Al-Helali
TITLE OF STUDY	:	Developing a Price Index for School Projects in Saudi Arabia
MAJOR FIELD	:	Construction Engineering and Management
DATE OF DEGREE	:	June, 1996

The objective of this research is to develop a specialized construction price index that reflects the change in the price of school buildings in Saudi Arabia.

This study was limited to school projects which are built for the MOE in Saudi Arabia. Elementary, intermediate and secondary school projects were considered in this study. The geographic coverage was limited to the main educational areas in Saudi Arabia, namely: Riyadh, Jeddah, and Eastern Province. Data was collected from the MOE in Riyadh for 114 school projects selected randomly.

In this research, there are 36 items that have been selected from the common models as being representative in cost and regularly used. The item weights have been considered as the average of the base year quantities in the three areas. The year 1990 has been taken as the base year for the RSPPI and SPPI. The Laspeyres method has been used to calculate the RSPPI and the SPPI. The quantities and prices of 36 items of RSPPI and the SPPI were extracted from the BOQ's of the 114 projects. This data has then been used to develop the RSPPI and the SPPI.

Four indexes are developed in this research namely: the RSPPI for Riyadh, the RSPPI for Jeddah, the RSPPI for Eastern Province and the SPPI for Saudi Arabia.

MASTER OF SCIENCE DEGREE

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS

DHAHRAN, SAUDI ARABIA

JUNE, 1996

خلاصة الرسالة

صربيسة

اسم الطالب	:	خالـد بن ريــس بن مـحـسـن الـــهــلالي .
عنوان الرسالة	:	إيجاد مؤشر للسعر لمشاريع المدارس في المملكة ال
		السعودية .
التخميص	:	هنىلاسىة وإدارة التشييىد .
تاريخ الشمادة	:	محرم ١٤١٧هـ .

إن الهملف من همذه الرسالة هو إيجاد مؤشر للمعر يعكس مدى التغير في أسعار بناء المدارس في المملكة العربية المعودية .

هذه الدراسة خاصة بمشاريع المدارس التي تقوم ببناءها وزارة المعارف بالمملكة العربية المعودية . تضمنت هذه الدراسة مشاريع المدارس الإبتدائية والمتوسطة و الشانوية في كل من منطقة الرياض التعليمية ومنطقة جدة التعليمية و المنطقة الشرقية التعليمية . وقد جعت المعلومات من وزارة المعارف لمائة وأربعة عشر مشروعاً مدرسياً بالطريقة العشوائية ومن ثم اختير ستة و ثلاثين عنصراً من عناصر نحاذج المشاريع الشائعة لتكون عناصر مؤشر السعر ، حيث أن هذه العناصر اختيرت بعناية لتكون ممثلة للسعر و تستخلم في المشاريع بانتظام . استخدم متوسط كميات العناصر في منه الأساس (١٩٩٠م) كوزن ثابت لعناصر مؤشر السعر . متوسط كميات العناصر في سنة الأساس (١٩٩٠م) كوزن ثابت لعناصر مؤشر السعر . مؤشر السعر . وقد استخرجت الكميات والأسعار للستة والثلاثين عنصراً من جداول الكميات للمائة والأربعة عشر مشروعاً ومن ثم ما متخامها في إيماد وعار

في هذه اللراسة تم إيجاد أربعـة مؤشـرات سعـر لمشاريـع المـدارس لـكل من مـنـطـقـة الـريــاض التعليـميــة ومـنـطـقـة جــدة التعليـميـة والمنطقـة الـشرقيـة التعليـميـة والـمـلكــة العربيــة الـسعودية .

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CHAPTER 1

INTRODUCTION

1.1 OBJECTIVE OF THE RESEARCH:

The objective of this research is to develop a specialized construction price index that reflects the change in the price of school buildings in Saudi Arabia. This research is part of a larger project sponsored by King Abdul-Aziz City for Science and Technology (KACST) to serve government and private agencies that are interested in the development of construction cost indexes in Saudi Arabia (Assaf, Almohawis, Shash and Salameh, 1992).

1.2 NEED FOR RESEARCH:

The Ministry of Education (MOE) in Saudi Arabia is the governmental agency responsible for building public schools for boys. Every year, millions of Saudi Riyals (SR) are spent on the construction of public schools to meet the increasing number of students in different regions of the country, for example in 1993 the budget for building schools was SR. 502,000,000. More than 3500 educational buildings were built by the MOE up to 1993 at a cost of 21 billions of Saudi Riyals (MOE,1993). A price index for these buildings is needed to show the movement of their price over time. The School Projects Price Index (SPPI) can be part of generalized cost indexes for construction in Saudi Arabia. Also, it can be

utilized to meet MOE needs such as project budgeting, adjusting contract prices, general forecasting, etc.(Assaf, Almohawis, Shash and Salameh, 1992).

1.3 SCOPE OF THE RESEARCH:

This study will only be concerned with public boys schools which are built for the MOE in Saudi Arabia. Elementary, intermediate and secondary school projects will be considered in this study. The geographic coverage will be limited to three main educational areas in Saudi Arabia, namely: Riyadh, Jeddah, and Eastern Province¹. These restrictions are due to the time required to collect the needed data. Furthermore, the MOE is selected because it spends more than half of the public funds allocated to the construction of the primary education schools. However, this study can be generalized to the other educational areas because constructed school projects are generally similar throughout the country (MOE, 1993).

¹ According to the MOE definitions for the educational areas "Eastern Province means Dammam area only which includes the major cities such as Dammam, Dhahran, Al-Khobar, etc."

CHAPTER 2

REVIEW OF RELATED LITERATURE

2.1 DEFINING AN INDEX NUMBER:

An index number measures how much a variable changes over time. An index number can be calculated by dividing the ratio of the current value to a base value. Then, the resulting number is multiplied by 100 to express the index as a percentage. This final value is the percentage relative. The index number for the base year is always 100 (Levin, 1987).

Fisher stated that "An index number measures the magnitude of a variable relative to a value of that variable in a selected base year" (Fisher,1967). Also, an index number is a relative which expresses the relationship between two figures, where one of the figures is used as a base year (Fisher, 1967). Both of the two definitions above have been expressed in terms of time, but an index number can be used to make comparisons between places (Fisher, 1967).

2.2 GENERAL ISSUES OF INDEX NUMBER CONSTRUCTION :

When constructing an index number, several issues should be considered such as:

- 1) The purpose of the index.
- 2) The selection of items to be included.

- 3) The selection of number of items to be included.
- 4) The choice of a base period.
- 5) The choice of weights.
- 6) Mathematical formulas of indexation.

2.2.1 The Purpose of the Index :

The purpose of the index must be carefully considered because it will affect decisions relating to the selection of the items, the choice of the base year and the choice of weights. Furthermore, the interpretation of the index will also depend on its purpose. For example, an index constructed to measure change in building cost must not be used for re-valuing the commercial value of a building, since such an index would not take into account changes such as the value of land on which such buildings are situated (Fleming and Tysoe, 1991; Tysoe, 1981). In this research the main purpose of the index is to measure the movement of construction prices of schools in Saudi Arabia.

2.2.2 The Selection of Items to be Included:

The most difficult problem of all in constructing an index is the selection of items to be included. In order to have an index with high accuracy of measuring the general movement of costs, it is required theoretically to include all the items. In reality, it is very difficult to include all items. Therefore, the selection of representative and most important items should be satisfactory (Fushi, 1978). The selection of items can be achieved correctly if the purpose of the index has been defined carefully (Tysoe, 1981).

2.2.3 The Selection of Number of Items to be Included:

In order to have an index with high accuracy of measuring the general movement of prices, it is required to include all the commodities but this is not practical (Fushi, 1978). An index number should consist of 20 to 50 items. After 50, the improvement obtained from increasing the number of items decreases and is questionable (Fisher, 1967).

2.2.4 The Choice of the Base Period:

The base period is a period of time against which all other periods are compared. The level of costs or prices in the base period is considered as 100. For periods other than the base period, the level of cost or prices is stated as a percentage of the base period level. Any time interval such as a month, year or years can be chosen as a period (Hamburg, 1987). There are three points that should be considered when choosing the base period. First, periods at which there were troughs or peaks of price fluctuation should not be selected as a base period. Another point is that the base period should not be too far from the present. Thirdly, it is advisable to use the same base period as other indexes if there are such indexes, because this will help later in comparing of the results of such indexes (Hamburg, 1987, Tysoe, 1981).

2.2.5 The Choice of Weights:

Since items are not equal in importance, weights should be used to give each item its proper weight in the index number calculation. There are three choices of weights to be used such as base period weights, current period weights and fixed period weights.

a) Base Period Weights:

Base period weights are the quantities of base period items and will be fixed for all periods. Therefore in this method, the choice of weights will be done for each item once and this for the base period only. This will reduce the calculation and facilitate the construction of the index (Hamburg, 1987). Also, it allows the possibility of showing year to year comparisons relative to the base year (Blackwell, 1979). After some time, this method becomes unrealistic because consumption changes from one period to the other. This method is known as the Laspeyres method (Hamburg, 1987).

b) Current Period Weights:

Another method of choosing weights is the use of weights for the current year instead of the base year. This method will give a good realistic set of weights from the economic view point. However, it will not allow for unequivocal interpretation of year-to-year price change i.e. the change could be done to price, quantities, or both. Another disadvantage of this method is that it is necessary to reselect the weights for each period and this is difficult in practice. Because of these disadvantages, this method is rarely used. This method is known as the Paasche method (Hamburg, 1987).

c) Fixed Period Weights:

This method is a partial combination of the base period weights and the current period weights. However, instead of using base period or current period weights, weights from a representative period are used. If the representative period is the base period itself, then this method becomes the same as the base period weights method. The main advantage of this method is its flexibility in selecting the base price and the fixed weight.

2.2.6 Mathematical Formulas of Indexation:

Indexes can be divided into two categories, namely : the aggregative method and the average of relatives (Levin, 1987).

2.2.6.1 Aggregative Methods:

Aggregative methods can be divided into two types which are the unweighted aggregates index and the weighted aggregates index. Aggregate means that all values or quantities are added or summed.

a) Unweighted Aggregate Index :

Unweighted means all items will have equal importance during the calculation of the index. The index in this method is calculated by adding all prices in the given period and then dividing the result by the sum of the

prices of the same items for the base period. The mathematical formula for calculating the unweighted aggregates price index is :

Unweighted Aggregate Price Index = $\frac{\sum P_1}{\sum P_0} \times 100$ (Eq.1) (Levin, 1987)

where :

 P_1 = price of each item in the composite for current year

 P_0 = price of each item in the composite for base year

The main advantage of this method is its simplicity in calculation. This method has the principal disadvantage of not giving greater importance or weight to the price change of a high-use item than it does to a low-use item (Levin, 1987).

b) Weighted Aggregates Index :

Weighted means items will have different levels of importance during the calculation of the index. There are three methods of weighting of an index. The first uses the quantities consumed during the base period in calculating each index. This method is known as the Laspeyres method. The second involves using quantities consumed during the period in question for each index number. This method is known as the Paasche method. The third is known as the fixed weight aggregates method. In this method, quantities consumed during one period are chosen and then used to calculate each index (Levin, 1987).

1) Laspeyres Method:

The mathematical formula for calculating the Laspeyres index is :

Laspeyres Index =
$$\frac{\sum P_1 Q_0}{\sum P_0 Q_0} \times 100$$
 (Eq.2) (Levin, 1987)

where:

 $P_o = prices$ in the base year $P_1 = prices$ in the current year $Q_o = quantities$ in the base year

2) Paasche Method:

The mathematical formula for calculating the Paasche index is:

Paasche Index =
$$\frac{\sum P_1 Q_1}{\sum P_0 Q_1} \times 100$$
 (Eq.3) (Levin, 1987)

where :

 P_0 = base period prices

 P_1 = current period prices

 Q_1 = current period quantities

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3) Fixed Weight Aggregates Method:

The mathematical formula for calculating the fixed weight aggregates price index is:

Fixed Weight Aggregate Price Index = $\frac{\sum P_1 Q_2}{\sum P_0 Q_2} x 100$ (Eq.4) (Levin, 1987)

where :

 P_0 = base period prices

 P_1 = current period prices

 $Q_0 =$ fixed quantities

2.2.6.2 Average of Relatives Methods :

Average of relatives methods can be divided into two types which are the unweighted average of relatives index and the weighted average of relatives index.

a) Unweighted Average of Relatives Method:

Unweighted means all items will have equal importance during the calculation of the index. The index in this method is calculated by adding the price relatives and dividing the total by the number of items. The mathematical formula for calculating the unweighted average of relatives index is:

Unweighted Average of relatives Index = $\frac{(\sum P_1/P_0) \times 100}{n}$ (Eq. 5) (Levin, 1987)

where :

 P_0 = base period prices

 P_1 = current period prices

n = number of items in the composite

b) Weighted Average of Relatives Methods:

Weighted means items will have different relative importance during the calculation of the index. Methods of weighting are the same as those discussed in section 2.2.6.1(b). The mathematical formula for calculating the weighted average of relatives index is:

Weighted Average of Relatives Price Index (general form) = $\frac{\sum [((P_1/P_0)x \ 100) (W)]}{\sum W}$ (Eq. 6) (Levin, 1987)

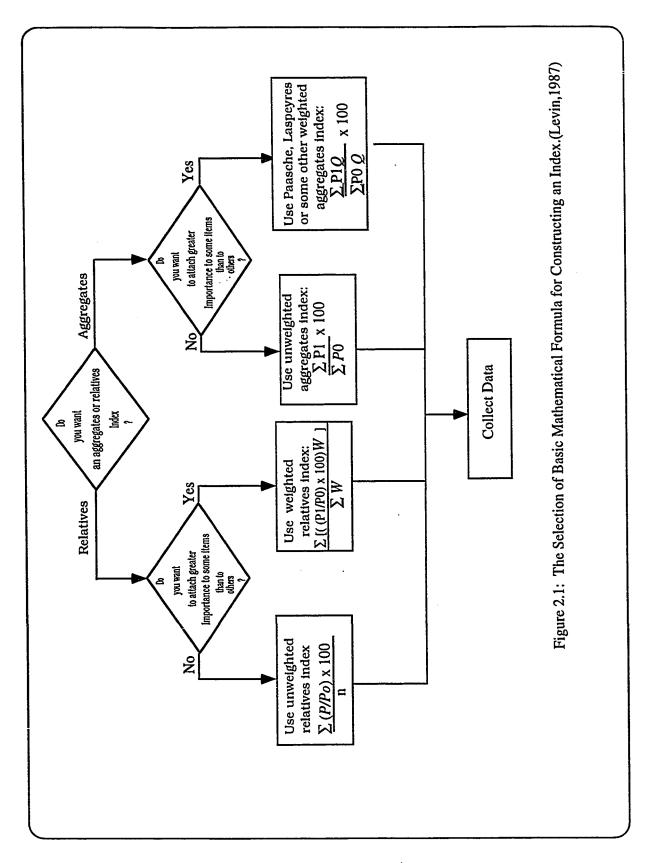
where :

 $P_o = prices$ in the base period

 P_1 = prices in the current period

W = the weight of an index item

Finally, figure 2.1 depicts the basic choices of mathematical formulas to be used in constructing an index.





2.3 CONSTRUCTION INDEXES IN GENERAL :

In this research, the indexes of the American and British construction industries are listed as follows :

2.3.1 Construction Cost Indexes in the USA:

The literature shows that there are more than 14 different construction indexes used in the USA (Shing, 1985):

- 1. The Construction Cost Index .
- 2. The Building Cost Index .
- 3. The Federal Highway Administration Bid Price Index .
- 4. The Boeckh Building Cost Number.
- 5. The Relative Cost of Pipeline Construction for the United States.
- 6. The Chemical Engineering Plant Cost Index .
- 7. Nelson Refinery Construction Cost Index (Nelson Index).
- 8. The Lee Saylor Index.
- 9. The Bureau of Reclamation Cost Index .
- 10. The Factory Mutual Building Cost Index.
- 11. The Austin Building Cost Index .

12. The Turner Building Cost Index .

13. The Marshal Valuation Service (MVS) Index.

14. The Means Construction Cost Index .

15. The Civil Works Construction Cost Index .

A full description of these indexes can be found in Shing (1985). However, since the construction indexes of buildings are related to school buildings, they are reviewed in the next section.

2.3.1.1 Construction Indexes Related to School Buildings in the USA:

a) Building Cost Index (BCI):

The building cost index was introduced by the Engineering News-Record in 1938 to measure the effects of skilled labor costs on the material cost. The BCI is an improved index of the Construction Cost Index (CCI). Both the CCI and BCI are weighted aggregate indexes for constant quantities of structural steel, Portland cement, lumber and labor. The CCI accounts common labor wages for its labor component, but the BCI accounts an average of carpenter, bricklayer and structural ironworker wages for its labor component. The BCI is composed of two major parts, namely: the Material Cost Components Index (MCC) and the Skilled Labor Index (SLI). The MCC is constructed using the prices of structural steel, Portland cement and labor. The SLI is constructed using the average of carpenter, bricklayer and structural ironworker wages. The MCC and SLI

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are combined to produce the BCI. The base year of the BCI is 1967 for each city and 1913 for national average. The BCI does not make adjustments for productivity, managerial efficiency, competitive conditions, contractor overhead and profit, design changes and other intangibles (Shing 1985).

b) Boeckh Building Cost Index Numbers:

The Boeckh Building Cost Index is calculated from the base year of the United States Average Prices 1926-1929 = 100. The E.H. Boechk Co. calculates residential building cost percentage using a continuous three-phase process:

- 1. Labor rates and material prices are monitored throughout the USA and Canadian cities.
- 2. Weighting schedules, which are formulas specifying the percentage of each labor and material cost in relation to the total building cost, are established and modified as trends dictate.
- 3. The results of phase 1 and phase 2 are combined by computer, producing building cost percentage change reports.

In phase one, the data collection involves three categories: local labor rate, local material costs and national material costs. Labor rates are the prevailing wages paid in a particular city, and include fringe benefits, applicable state and local taxes, workmen's compensation, unemployment compensation, contractor's liability insurance and social security. This data is collected from building trade councils, associated general contractors, local unions and contractors and state and local government agencies. Local material costs are checked in the same manner as the local labor rates. These costs are collected for material such as brick, concrete block, readymix concrete, lumber and steel. This data is collected from local suppliers in the specific locations. National material costs are priced in the same manner for plumbing fixtures, piping and wiring which are distributed nationwide by supply centers.

c) Lee Saylor Index:

The Lee Saylor Index (LSI) is an unweighted index and its base year is 1967. The price indexes are compiled from a large number of projects, interviews with material suppliers and subcontractors and from sources worked out with general contractors for labor items. The data of the LSI is not only from actual project costs, but also from opinions rendered to Lee Saylor's incorporation. The LSI indexes are based on the sixteen division format of the Construction Specification Institute (CSI). However, there is some deviation from the CSI standard format as follows:

- 1. Where the standard format causes a split between disciplines involved in a single trade.
- 2. Where more separations are needed than allowed for in the CSI standard format.

- 3. Where divisions under the CSI standard format do not fit a logical trade pattern or flow of materials.
- 4. Where the trades are so broken down that the sections become too small to conveniently handle in LSI, items are sometimes combined into the same section. The LSI consists of two major

parts, namely: the material/labor cost index and the subcontractor index. The components of the material/labor cost index are 23 selected materials and 9 selected trades. The components of the subcontractor cost index are 21 in-place cost items.

d) Means Construction Cost Index:

The Means Construction Cost Index represents relative costs for material, labor and equipment, as well in-place cost. The base year used for this index is 1975. This index is based on the Construction Specification Institute's 16 major divisions. Each division has certain weight in the index. These weights are the following:

Division 1	Contractor's equipment	6.2 %
Division 2	Site work	5.4 %
Division 3	Concrete	19.4 %
Division 4	Masonry	10.1 %
Division 5	Metals	6.2 %
Division 6	Wood and Plastic	1.9 %
Division 7	Moisture Protection	4.3 %

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Division 8	Doors, Windows and Glass	5.5 %				
Division 9	Finishes	10.1 %				
Division 10	Specialties etc.	7.9 %				
to Division 14						
Division 15 N	19. 5 %					
Division 16	9.7 %					

2.3.2 Construction Cost Indexes in The UK:

There are three main kinds of indexes in construction in the United Kingdom. These kinds of indexes are as follows:

- a. Building Cost Indexes
- b. Tender Price Indexes
- c. Output Price Indexes

A description of the various indexes in the above three categories can be found in Fleming and Tysoe (1991) and in Tysoe (1981). However, these indexes will be reviewed briefly in this research.

2.3.2.1 Construction Indexes Related to School Buildings in the UK:

a) Building Cost Indexes:

Cost indexes in the U.K. represent the change in building costs that are actually incurred by the contractor or the builder in the course of his business such as wages, materials prices, plant cost, rates, rents, overheads and taxes etc., but excludes profits and market considerations. The discussion of the cost indices will not be expanded because only the price indexes are being considered in this research.

b) Tender Price Indexes

Tender price indexes represent the movement of costs that a client must pay for a building. The data for these indexes are collected from Bills of Quantities. These indexes are related to the price index which will be developed in this research. Therefore, the tender price indexes that are related to school buildings or similar buildings will be reviewed.

1. DOE DQSS Public Sector Building Tender Prices Index:

This index is developed by the Department of the Environment (DOE) and the Directorate of Quantity Surveying Services (DQSS). It measures the level of prices in accepted tenders for new building works in the public sector when compared with standard base prices. The data for this index are based on bills of quantities for projects such as schools, hospitals, social service buildings and police buildings. The index is prepared from price levels established for each accepted tender by comparing prices of items to a total of 25% for each trade or section of the bill of quantities with standard base prices; the information is combined by applying weights representing the proportion of the total of the bill of quantities represented by each trade or section. Preliminaries and other general charges are spread proportionately over each item of the bill of quantities.

2. BCIS Tender Price Index:

This index measures the trend of tender prices for new building work in the United Kingdom. The index is compiled by comparing rates from accepted tenders over the country as a whole with a base schedule. A random sample of priced bills of quantities for new work in both the public and private sectors is collected and analyzed. Eighty projects per quarter are required for a statistically reliable index. If the number in the sample falls below 80 the reliability of the index is reduced.

3. DOE Price Index of Public Sector Housing:

The price index of public sector house building is prepared by the DOE. This index provides a measure of the change of tender prices for the construction of public sector housing in England and Wales. The price data used are extracted from the bills of quantities of successful tenders for dwellings in blocks of up to four stories built by traditional methods.

The price changes are measured from the prices of 23 items which occur in most such bills of quantities. Each item is selected to represent all the work in a particular trade section, so that price movements of the other work in a trade section are assumed to be broadly similar to those of the representative item. The index is compiled as a Laspeyres price index, in which a weighted arithmetic average of relatives for each item in the current quarter, relative to the base year, is produced for each region. Items together with their weights are listed in Table 2.1.

Table 2.1	Items Used in DOE Price Index of Public Sector Housing Buildings and
	Their Weights (Fleming and Tysoe, 1991; Tysoe 1981)

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#	Items	Weights Used	#	Items	Weights Used
1	Excavation and hard-core	2.5	13	Copper plumbing	2.5
2	Concrete work	7.5	14	Hot and cold water tanks	1
3	Brickwork-general	12.5	15	Sanitary fittings	3.5
4	Brickwork -facing	7	16	Central heating	7.5
5	Partitions	2.5	17	Electrical installation	4
6	Roof tiling	4.5	18	Plastering walls	7
7	Carpentry	7.5	19	Ground floor covering	2.5
8	First floor boarding	2	20	Plastering ceilings	2.5
9	Manufacture joinery doors	6.5	21	Glazing	1
10	Windows	4	22	Wall and ceiling paint	2
11	General joinery	5	23	Oil painting	3.5
12	Soil and vent piping	1.5			

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4. Scottish Office Housing Tender Price Index:

This index is compiled by the Scottish Office Building Directorate. It measures the movement of prices in competitive tenders for one-to fourstorey public sector housing throughout Scotland. Its main use is in updating tenders or producing an estimate of current tender prices on the basis of historic cost information for housing in Scotland.

c) Output Price Indexes:

Output price indexes are derived from tender price indexes and are used as defoliators to convert contractors' output of new construction work from current prices to constant prices. The output price indexes are developed by the Department of Environment (DOE). These indexes consist of six building indexes, namely: Public Housing, Private Housing, Public Works, Private Industrial, Private Commercial and New Construction.

2.3.3 Indexes in Saudi Arabia:

The literature does not show that there is any construction index in Saudi Arabia. However, there are some indexes published by the Ministry of Finance and National Economy (MFNE). There are two indexes namely: Cost of Living Index (CLI) and Wholesale Price Index (WPI). The CLI consists of three main indexes namely: the Retail Import Price Index (RIPI), the Middle-Income Index (MII) and All Cities Index (ACI). The CLI is published monthly. The WPI is published on a quarterly basis. The CLI and WPI are calculated with the use of fixed weights and Laspeyres formula. The base year of both the CLI and WPI is 1988. The historical cost of living index for the all cities is shown in Table 2.2.

Year	General Index	General Index Year	
1979	100.4	1987	99.1
1980	104.8	1988	100.0
1981	107.7	1989	101.0
1982	108.8	1990	103.1
1983	109.0	1991	107.8
1984	107.3	1992	107.4
1985	104.0	1993	108.3
1986	100.7	1994.	109.0

Table 2.2: Historical Cost of Living Index for all Cities Index (MFNE, June 1995)

2.4 ISSUES TO BE CONSIDERED IN DEVELOPING A CONSTRUCTION PRICE INDEX:

Many construction cost/price indexes have been developed in the UK and the USA. This large number of indexes is due to several factors, such as:

• The diversity of construction work, which means that different types of work need different indexes.

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- The different purposes of indexes, such as updating tender forecasting, or others which also may need different indexes.
- The measurement difficulties in construction: because of the nonstandard product, identical projects are rare.
- Different indexes for different periods of time.
- The difference in prices and methods due to geographical differences (Fleming and Tysoe, 1991).

Therefore, these factors need to be studied when developing a new construction index for a specific purpose.

2.4.1 Types of Construction Indexes:

There are two main types of construction indexes, namely: the input indexes and the output indexes. The input indexes are known as cost indexes. These indexes measure the price change of construction items, such as material, labor and equipment, which represent the cost incurred by the contractor. This does not include profits and market considerations. The output indexes are known as price indexes. These indexes measure the price change of construction items, such as material, labor and equipment, which represent the price change of construction items, such as material, labor and equipment, which represent the price a client must pay for a building. These indexes include the profits and market considerations. (Fleming and Tysoe, 1991, Gallo, 1979).

2.4.2 Problems of Measurement:

There are many factors which affect measurement of indexes in the construction industry. The main factor is the diversity of construction work. This includes the construction of a wide variety of building types, sizes, design, specifications, complexity and method of construction etc. Even similar jobs vary due to differences in site conditions, with a consequential influence upon costs of construction. Therefore, each construction job tends to be unique. Thus, from the point of view of measuring changes in costs over time there is no single standard of comparison, Another factor is that construction projects often take a considerable period of time from start to finish. The costs may be measured at different stages of the process, such as work to be carried out, work being executed, or work that has been completed. The measurements which relate to these three stages are expected to be different and likewise the rate of change over time may not be the same (Fleming and Tysoe, 1991).

2.4.3 Methods of Measurement:

There are two approaches to the problem of devising an index of construction costs or prices. The first one is to use price data for actual contracts. The other approach is to use information about changes in factor costs.

a) Use of Actual Price Data:

The use of actual price data is divided into two types, namely: total prices, and unit rates and repricing of tenders.

1) Total Prices:

This method will be discussed briefly because it is not in current use. The main problem in this method is that there is no standard product so that it is difficult to make comparisons between building prices. This problem can be solved by inviting tenders periodically for a building of standard design and specification, but without intending to erect the building. This method should take into consideration the changes in standards that take place over time. There is also the more serious problem that, since the builders tendering would have no prospect of gaining a contract, there could be no assurance that the prices were reasonable reflections of current cost levels and the tendering climate (Fleming and Tysoe, 1991).

2) Unit Rates and the Repricing of Tenders:

This method involves collecting data about the unit rates for particular categories of work used in building up the total contract price. These are available from the priced bills of quantities of accepted tenders. However, this method needs access to a representative selection of bills, and what is more, a reasonably large number of them. This is because the rates given by different contractors vary considerably not only due to the efficiency

differences in the labors, materials and plant cost used by the estimator but because of the differences in practice adopted by each contractor to arrive at the total price of a contract. There are two ways to apply this method in practice. The first is to measure the percentage change in the rates quoted in current tenders compared with base-period tenders and to take an appropriately weighted average of these. The other way is to use the rates to re-price tenders. There are two approaches for applying the second method. One is to use standard rates from a base period to re-price current bills. The other one is to use current rates to re-price a standard bill (Fleming and Tysoe, 1991).

b) Use of Factor Cost Data:

The use of factor cost data is divided into three types, namely: the weighted average of factor cost indexes, the repricing aggregate factor costs and the use of published unit (Measured) rates.

1) Weighted Averages of Factor Cost Indices:

This method consists of taking a weighted average of indexes measuring changes in the costs of labor, material and equipment. Labor costs may be measured by reference to wage rates, possibly with the addition of allowances for labor, such as payments for insurance, training levies, traveling time, payroll taxes, etc. The use of wage rates to measure labor costs will not reflect the payment of rates in excess of the basic negotiated rates, nor payments for overtime, bonuses...etc. (Fleming and Tysoe, 1991).

2) Repricing Aggregate Factor Costs:

In brief, this method consists of taking aggregate information about the cost of factor inputs and deflating it to base year price levels through the use of appropriate factor cost indexes. The sum of factor costs at current rates is compared with base-period prices to yield an index of the change in output prices (Fleming and Tysoe, 1991).

3) Use of Published Unit Rates:

In this method, the rates used are those published in builders' price books or trade journals. These rates represent the going rates for carrying out specific items of building work. They facilitate the maintenance of a comparable standard over time reflecting both changes in costs and productivity and incorporating a built-in weighting of labor and materials, but they do not take technical changes into consideration. Changes in productivity may be allowed for when the rates, or more particularly the constants, are revised but in practice this is likely to be infrequent. Overheads and profits are commonly allowed for in these rates through the addition of a fixed percentage. These rates are not sensitive to changes in market conditions and are more likely to reflect changes in constructors' basic factor costs rather than tender prices (Fleming and Tysoe, 1991).

2.4.4 Index Simplification:

In the development of construction cost indexes, simplification of the index should be considered. Items of construction that have the greatest influence on the index number should be selected. For example, the Engineering News Record (ENR) construction cost index basically consists of four major components (structural steel, Portland cement, lumber and labor). The ENR index covers 20 major U.S. cities and it still serves its purpose successfully (Fushi, 1978).

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2.4.5 Source of Price Data:

Government organizations have most of the statistical data about prices. In the U.S.A. the largest source of commodity price statistics is the Bureau of Labor Statistics (BLS) in the U.S. Department of Labor. Data from this source has been used for many years and Bureau of Labor Statistics (BLS) has been found to do a competent job in updating their data. This provides consistency in updating data. The frequency of data collection is another consideration to coordinate with the time intervals (such as monthly, quarterly, or yearly) of the index developed. Another consideration is the accuracy of the data because it affects the final output of any index. The data source plays the major role in its accuracy. The source for statistical data for a specific item should be an organization which deals with purchasing or producing of that item in a direct way. Therefore, it is very important to select the most accurate, frequent and consistent source of data suitable for the type of index developed (Fushi, 1978, Fleming and Tysoe, 1991.)

2.4.6 Corrections for Improvements:

As time passes, the accuracy of an index decreases. To overcome this problem, certain steps should be done to improve the index's accuracy such as base year shifting, weight updating, market conditions percentage provision and correction for productivity. Construction techniques have been improved as time passes and consequently this causes a rate of change in productivity. Therefore, there should be a correction factor for construction labor. In the U.S.A. 2.5% per year is considered as the average rate of change productivity correction factor (Fushi, 1978). Statistical data is required in order to find the productivity correction factor, but once the productivity factor is built into the index, it will be a simple matter to update the index when better data becomes available (Fushi, 1978).

CHAPTER 3

RESEARCH DESIGN

3.1 METHODOLOGY:

The research design section is divided into three sections, namely : methodology, data collection and validation. The methodology section consists of five sub-sections, namely surveying school models, identification and selection of price index items, weights to be used, selection of the base year and selection of a price index method. The data collection section consists of data source and sampling and sample size needed. The last section is an overview of how the price index for schools can be validated.

3.1.1 Surveying the School Models:

A survey was conducted to identify the common models of school projects. MOE has forty-six models for school buildings. These models are listed in Table 3.1. These models depend on three variables which are the serial number of model (i.e. 1,2,3,...11), the number of class rooms and the type of the school (i.e. Elementary, Intermediate and Secondary). Among the forty-six model, there are only twelve models are common. These common models are listed in Table 3.2. Design models 2/18/E, 2/18/I, 2/26/S, 2/28/E and 2/28/I have the same characteristics in the following:

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- Director Office	- Social Advisor Room
- Secretary Room	- Two Teacher Conference Rooms
- Library	- Gymnasium
- Multipurpose Room	- Stores
- Toilets	- Snack Bar

Design models 11/20/E, 11/25/E, 11/25/I, 11/25/S. 11/30.E, 11/30/I and 11/30/S have the same characteristics in the following:

-	Director Office	-	Secret Room
-	Two Assistance Rooms	-	One Conference Room
-	Secretary Room	-	Two Monitoring Rooms
-	Two Teacher Conference Room	-	Physical Education Advisor Room
-	Drafting Room	-	Computer Room
-	English Laboratory	-	Computer Laboratory
-	Library	-	Gymnasium
-	Stores	-	Toilets
-	Snack Bar	-	Dressing Room
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Mosque

The differences between the common models of school projects are shown in Table 3.3. The total number of projects that have been constructed since 1982 upto 1995 from all types of models is shown in Table 3.4. Also the total number of projects that have been constructed since 1982

upto 1995 from the common models is shown in Table 3.4. From Table 3.4, it is very clear that the common models form 58.29% of the constructed projects in the three educational areas between 1982 & 1995. Also, the total number of projects that are under construction until 1995 are listed in Table 3.5. The common models form 91.31% of the projects that are under construction in the three areas until 1995. These statistics show that, there is no unique common model and among the forty-six models, there are only twelve models are common and consequently a typical model is developed for the purpose of this study. This typical model contains the common features and characteristics of these twelve models. Bill of Quantities for the typical model is developed to contain the common items from the BOQ's of the common models. Five BOQ's for five projects have been taken and the items of these BOQ's have been listed in appendix A. This BOQ of the typical model contains 165 items.

#	Type of Model	#	Type of Model	#	Type of Model
1	1/12/I ¹	17	4/9/E	33	8/6/E
2	1/12/S	18	4/9/I	34	10/21/I
3	1/18/I	19	4/9/S	35	11/15/E
4	1/18/S	_20	5/14/I	36	11/15/I
5	1/27/S	21	5/19/E	37	11/15/S
6	2/18/E	22	5/21/1	38	11/20/E
7	2/18/I	23	5/28/E	39	11/20/I
8	2/28/E	24	6/18/E	40	11/20/S
9	2/28/I	25	6/18/I	41	11/25/E
10	2/26/S	26	6/18/S	42	11/25/I
11	3/12/E	27	6/24/E	43	11/25/S
12	3/12/I	28	6/24/I	44	11/30/E
13	3/12/S	29	6/24/S	45	11/30/I
14	3/20/S	30	6/30/E	46	11/30/S
15	3/22/E	31	6/30/I		
16	3/22/I	32	6/30/S		

Table 3.1: List of School Projects Models in Saudi Arabia

Table	3.2:	The	common	models	of	school	projects	in	Saudi	Arabia	
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#	Type of Model	#	Type of Model	#	Type of Model
1	2/18/E	5	2/28/I	9	11/25/S
2	2/18/I	6	11/20/E	10	11/30/E
3	2/26/5	7	11/25/E	11	11/30/I
4	2/28/E	8	11/25/1	12	11/30/S

1 The first number refers to the model, the second number refers to the number of classrooms in the school and the third number refers to the type of the school (i.e. E = Elementary, I = Intermediate and S = Secondary school)

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#	Type of Model	No. of Class Rooms	Studying Level	No. of Floors	No. of Laboratories
1	2/18/E	18	Elementary	2	0
2	2/18/I	18	Intermediate	2	2
3	2/26/S	26	Secondary	3	4
4	2/28/E	28	Elementary	3	0
5	2/28/I	28	Intermediate	3	2
6	11 /20/ E	20	Elementary	2	0
7	11 /25/ E	25	Elementary	2	0
8	11/25/I	25	Intermediate	2	2
9	11 /25/ S	25	Secondary	2	4
10	11/30/E	30	Elementary	2	0
11	11/30/I	30	Intermediate	2	2
12	11/30/S	30	Secondary	2	4

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 Table 3.3:
 List of the Differences Between the Common Models

 of School Projects in Saudi Arabia

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Table 3.4:The Number of Constructed ProjectsBetween 1982-1995 in the Three Educational Areas

Educational Area	No. of Projects	No. of Projects Using Common Models	Percentage of Projects Using Common Models to the Total
Riyadh	211	123	58.29
Jeddah	112	66	58.93
Eastern Province	111	64	57.66
The total in the three Educational Areas	434	253	58.29

Table 3.5: The Number of Projects Under Construction in the Three Areas

Educational Area	No. of Projects	No. of Projects Using Common Models	Percentage of Projects Using Common Models to the Total
Riyadh	55	48	87.27
Jeddah	30	26	86.67
Eastern Province	8	8	100
The total in the three Educational Areas	93	82	91.31

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3.1.2 Identification and selection of Price Index Items

The identification of the price index items can be done by review of the BOQ's of the typical model.

The BOQ's of the typical model contains all the price items, but for developing the price index, some representative items are needed. The selection of the price index items is based on the following:

- 1. The item should have a major effect on the total cost of the project (i.e. 0.50% or above).
- 2. The item must have been used in all common models, it should have been used in the past, and it should be used in the present and future.

Five projects have been taken and the percentage price of any item to the total price of the project have been calculated and listed in appendix A. The average percentage of the five values have been found and listed in appendix A. After applying the previous two conditions to each price item in the BOQ's of the typical model, a list of price index items is obtained. The list of price items is shown in appendix (B). This list contains 36 price items, which are the most common because they are found in every project of the common models. They also form more than 75% of the total project price (see appendix B). Therefore, these items are used as the price items because they are available in every project and have a large effect on the total project price.

3.1.3 Weights to be Used:

There are basically two ways of selecting weight, namely: fixed quantity and variable quantity. The fixed quantity approach using base year quantities is the most appropriate for this research because this method has the advantage of comparison between indexes. Another advantage is that the tabulation of quantities will be done only once. The base year quantities for all selected items in the price index are used as weights in this research.

3.1.4 Selection of the Base Year:

There are three considerations that need to be taken into account when choosing the base period. First, periods at which there were troughs or peaks of price fluctuation should not be selected as a base period. Another consideration is that the base period should not be too far from the present. The third consideration in choosing a base period is the use of the same base period as other indexes if there are such indexes, because this will help later in comparison of the results. (Hamburg, 1987, Tysoe,1981). After visits by the researcher to the MOE, the year 1990 was chosen as the base year in this research because it fulfills the first and the second requirements in choosing the base period. However, the year 1990 does not fulfill the third requirement, because the base year of the Cost of Living Index (CLI) of the Ministry of Finance (MOF) is 1988. The MOE has informed the researcher that reliable and organized data is unavailable prior to 1990.

3.1.5 Selection of a Price Index Method:

The selection of a price index method can be accomplished as shown in figure 2.1. In that figure, the first step is either to select the aggregative method or the average of relatives method. The aggregative method will be used in this research because it is more convenient since quantity weights are easier to obtain than value weights; and the basic price data are easier to obtain in absolute values than in the form of relatives. Also, the lack of relevant price indexes in the Kingdom prevents the use of price relatives in developing the construction index. The second step is to decide whether the weighted or the unweighted method is to be used. The weighted method is selected here because items are not equal in importance. The difference in the importance of items is due to their effects on the total price of the project. Because of the selection of the base year weights in section 3.1.3, the index is aggregative, based on Laspeyres equation as mathematically described in equation 2 in p.9. The third step is the collection of the appropriate data and this is done in section 3.2.

3.2 DATA COLLECTION:

3.2.1 Data Source:

Data was collected from one source which is the MOE in Riyadh and specifically from the Deputy Ministry of Education for Projects and Maintenance. Only data about projects that have been built was collected. This data is for actual and successful biddings. The data are in the form of BOQ's of school projects. The BOQ's include items and their prices, quantities and the total price for each project selected in the sample.

3.2.2 Sampling and Sample Size Needed:

There are 3235 school buildings which were built for the MOE between 1970 and 1993 in Saudi Arabia. These buildings include 2512 elementary schools, 543 intermediate schools, and 180 secondary schools. Therefore, the population of school buildings is 3235 schools (MOE, 1993). It is necessary to select a sample size of schools that produces features and characteristics of the entire schools population. A sample of 114 school projects was selected based on a confidence level of 95% and a limit of error of ± 0.10 .

n = x / [(1 + (x / N))] (Eq. 7)(Kish, 1965)

Where :

 $x = pq (t/d)^2$

n = sample size

p = % of feature existence $= 0.5$	
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q =	% of feature n	on existence	= 0.5
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t = Z for 95% confidence = 1.96

d = limit or error = 0.10

N = the finite pollution of schools	= 3235
$x = 0.5 * 0.5 * (1.96/0.10)^2$	= 96.04
n = 96.04/[1+(96.04/3235)]	= 93.27
Therefore $n = 93$	

The minimum sample size is 93 projects. However, the researcher selected a sample of 114 projects. The projects were selected by random sampling. A selected project was accepted if it satisfied these two conditions :

- 1) The project must be built in Riyadh, Jeddah or Eastern Province.
- 2) The award date of the project must be between 1990 and 1995.

The archive shelves were reviewed before starting the collection of data to develop a system of random sampling which was done in order to give each constructed project an equal chance to be in the sample. The elements of this sample (school projects) were selected using a Table of random numbers to assure randomness, independence, and representativeness. All the school projects were listed in a long list in the MOE. From the Table of random numbers, a number was selected and then the equivalent number in school projects list is taken. When any selected project did not satisfy the above two conditions, another project was selected using the same Table to substitute for it. All the school projects in the sample are listed in Table 3.6.

#	Type of Model	Educational Area	Year of Award
1	2/28/E	Riyadh	1990
2	2/28/E	Riyadh	1990
3	2/28/E	Riyadh	1990
4	2/28/E	Riyadh	1990
5	2/28/E	Riyadh	1990
6	2/28/E	Riyadh	1990
7	2/28/E	Riyadh	1990
8	2/28/E	. Riyadh	1990
9	2/28/E	Riyadh	1990
10	2/18/E	Riyadh	1990
11	2/28/I	Riyadh	1991
12	2/28/I	Riyadh	1991
13	2/28/I	Riyadh	1991
14	2/28/I	Riyadh	1991
15	2/28/I	Riyadh	1991
16	2/28/I	Riyadh	1991
17	2/28/I	Riyadh	1992
18	2/28/I	Riyadh	1992
19	2/28/I	Riyadh	1992
20	2/18/E	Riyadh	1992
21	2/28/I	Riyadh	1992
22	2/28/E	Riyadh	1993
23	2/28/E	Riyadh	1993
24	2/28/E	Riyadh	1993
25	2/28/E	Riyadh	1993
26	2/28/E	Riyadh	1993

Table 3.6: List of School Projects in the Sample of this Research

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#	Type of Model	Educational Area	Year of Award
27	2/28/E	Riyadh	1993
28	2/28/E	Riyadh	1993
29	2/28/E	Riyadh	1993
30	2/28/E	Riyadh	1993
31	2/28/E	Riyadh	1993
32	2/28/I	Riyadh	1993
33	2/28/I	Riyadh	1993
34	2/28/E	Riyadh	1994
35	2/28/E	Riyadh	1994
36	2/28/E	Riyadh	1994
37	2/28/E	Riyadh	1994
38	2/28/I	Riyadh	1994
39	11/30/I	Riyadh	1994
40	11/30/E	Riyadh	1995
41	11/30/I	Riyadh	1995
42	11/30/S	Riyadh	1995
43	2/28/E	Jeddah	1990
44	2/28/E	Jeddah	1990
45	2/28/E	Jeddah	1990
46	2/28/E	Jeddah	1990
47	2/28/E	Jeddah	1990
48	2/28/E	Jeddah	1990
49	2/28/E	Jeddah	1990
50	2/28/E	Jeddah	1990
51	2/28/E	Jeddah	1990
52	2/28/I	Jeddah	1990
53	2/28/I	Jeddah	1991
54	2/28/I	Jeddah	1991

Table 3.6 Continued

Continued...

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#	Type of Model	Educational Area	Year of Award
55	2/28/I	Jeddah	1991
56	2/28/I	Jeddah	1991
57	2 / 28/I	Jeddah	1991
58	2/28/E	Jeddah	1991
59	2/28/E	Jeddah	1992
60	2/28/E	Jeddah	1992
61	2/28/E	Jeddah	1992
62	2/28/E	Jeddah	1992
63	2/28/E	Jeddah	1992
64	2/28/E	Jeddah	1992
65	2/28/E	Jeddah	1993
66	2/28/E	Jeddah	1993
67	2/28/E	Jeddah	1993
68	2/28/E	Jeddah	1993
69	2/28/E	Jeddah	1993
70	2/28/E	Jeddah	1993
71	2/28/I	Jeddah	1993
72	2/28/I	Jeddah	1993
73	2/28/1	Jeddah	1993
74	2/18/I	Jeddah	1993
75	2/28/I	Jeddah	1993
76	2/26/S	Jeddah	1993
77	2/28/I	Jeddah	1994
78	2/28/E	Jeddah	1994
79	11/30/E	Jeddah	1995
			Continued.

Table 3.6 Cor	ntinued
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#	Type of Model	Educational Area	Year of Award
80	11/30/I	Jeddah	1995
81	11/30/S	Jeddah	1995
82	2/28/E	Eastern Province	1990
83	2/28/E	Eastern Province	1990
84	2/28/E	Eastern Province	1990
85	2/28/E	Eastern Province	1990
86	2/28/E	Eastern Province	1990
87	2/28/E	Eastern Province	1990
88	2/28/E	Eastern Province	1990
89	2/28/E	Eastern Province	1990
90	2/28/E	Eastern Province	1990
91	2/28/E	Eastern Province	1990
92	2/28/I	Eastern Province	1991
93	2/28/I	Eastern Province	1991
94	2/28/I	Eastern Province	1991
95	2/28/I	Eastern Province	1991
96	2/28/I	Eastern Province	1991
97	2/28/E	Eastern Province	1991
98	2/28/E	Eastern Province	1992
99	2/28/E	Eastern Province	1992
100	2/28/E	Eastern Province	1992
101	2/28/E	Eastern Province	1992
102	2/26/S	Eastern Province	1992
103	2/28/I	Eastern Province	1992
104	2/28/E	Eastern Province	1993
			Continued.

Table 3.6 Continued

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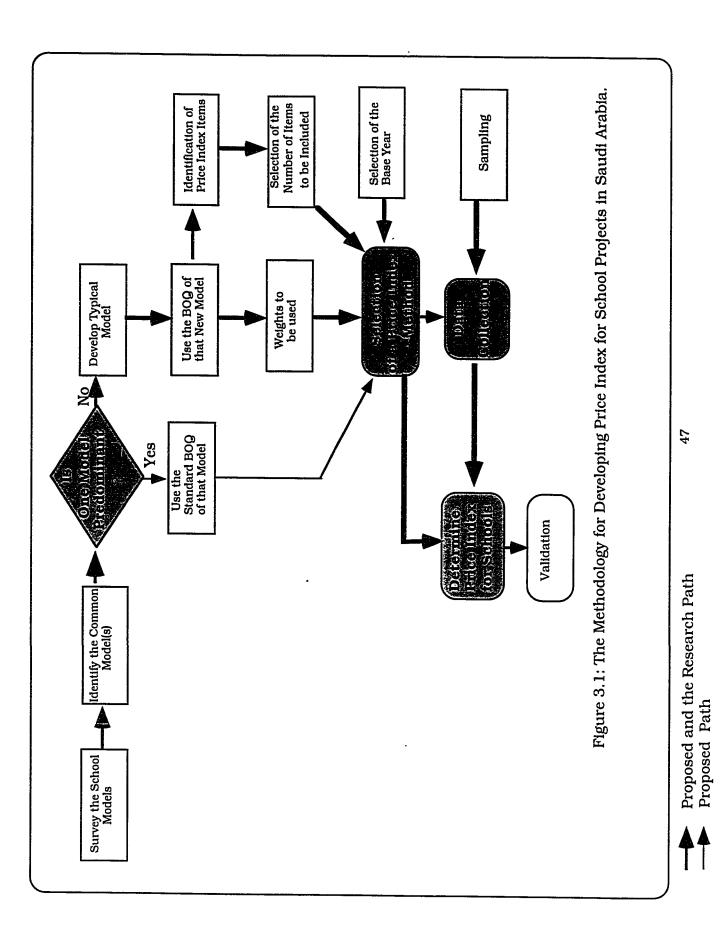
#	Type of Model	Educational Area	Year of Award
105	2/28/E	Eastern Province	1993
106	11/3/S	Eastern Province	1993
107	11/25/E	Eastern Province	1993
108	11/20/E	Eastern Province	1993
109	2/28/E	Eastern Province	1994
110	11/30/S	Eastern Province	1994
111	11/30/S	Eastern Province	1994
112	11/25/S	Eastern Province	1994
113	11/30/S	Eastern Province	1995
114	11/30/I	Eastern Province	1995

Table 3.6 Continued

3.3 VALIDATION:

After developing the price index, it is tested for its validity. Several prices of constructed school projects, not in the sample, were collected from the MOE for a certain year. This was repeated for another year. The percentage difference of the school prices can be compared with the difference of the price index for the same set of years. A full description of the index validation is presented in section 4.3.

The methodology of this research is presented graphically in Figure 3.1.



CHAPTER 4

DATA CALCULATION AND ANALYSIS

This chapter is divided into three parts, namely, the development of regional school projects price index (RSPPI), the development of the school projects price index (SPPI) and the validation. In the first part, RSPPI will be developed in three stages. The first stage is the quantities and prices calculation for each item in the RSPPI. The second stage is the total price calculation for each item and the sum of the total prices. The last stage is the RSPPI calculation using the prices of the sum of index items by the Laspeyres method. In the second part, the SPPI will be developed in four stages. The first stage is the quantities and prices calculation for each item in the SPPI. The second part, the SPPI will be developed in four stages. The first stage is the quantities and prices calculation for each item in the SPPI. The second stage is the average quantities and prices calculation for each item in the SPPI. The third stage is the total prices. The last stage is the SPPI calculation using the prices of the sum of index items and prices calculation for each item in the SPPI. The third stage is the total prices. The last stage is the SPPI calculation using the prices of the sum of index items by Laspeyres method. In the third part, the validation of the RSPPI and the SPPI will be tested.

4.1 THE DEVELOPMENT OF THE RSPPI:

This section is divided into three sub-sections, namely, the calculation of the quantities and prices, the calculation of the total price for each item and the sum of the total prices, and the calculation of RSPPI.

4.1.1 Calculation of Quantities and Prices:

This section consists of the calculation of the base year quantities and the calculation of the prices for the six years.

4.1.1.1 Calculation of the Base Year Quantities:

The RSPPI items are listed in Table 4.1. The quantities for each item have been inserted in the Table for each item for the year 1990 from the Riyadh area. The average quantities has been calculated for each item. This calculation procedure has been done for Jeddah and Eastern Province areas in Tables 4.2 and 4.3 respectively.

Table 4.1

۰. Calculation For the Base Year Quantities of Price Index Items **Educational Area - Riyadh**

Year 1990

				P	oject Coc	Project Code Number ¹	er ¹		<u> </u>
*	Work Items	Unit	90/1/12	90/1/2	90/1/3	90/1/4	90/1/5	90/1/6	Avg. Qty.
:		•			Item Qu	Item Quantities			
-	Excavation work	m ³	50	0	4700	5800	2700	300	2258.33
7	Backfilling work	m ^ع	3100	3000	1500	1400	1450	3200	2275.00
6	Excavation work for the foundation	°m	1250	1300	1500	1800	2150	1400	1566.67
4	Plain concrete work under the foundation	m ³	240	230	260	260	250	260	250.00
S	Reinforced concrete work for the foundation	°m	510	540	595	640	640	590	585.83
9	Natural crushed stone sub-base coarse	m²	475	330	490	480	480	475	455.00
~	Building made from Calcium Silicate Bricks	m ²	680	500	800	700	550	740	661.67
∞	Concrete pavers (40x40x5cm)	m²	3740	2200	4100	4100	2100	4100	3390.00
6	Plain concrete with 10 cm thickness	m²	1640	1640	1640	1640	1640	1640	1640,00
01		m ³	1040	1040	1040	1040	1040	1040	1040,00
=	11 CMU walls with 15 cm thickness	m²	1695	1695	1695	1695	1695	1695	1695.00
12	12 CMU walls with 20 cm thickness	m²	2460	2460	2460	2460	2460	2460	2460.00
13	13 [Glazed mosaic tiles (size 30x30x3cm)	m²	2580	2580	2580	2580	2580	2580	2580.00
14	14 Floor tiling	m²	1500	1500	1500	1500	1500	1500	1500.00
15	15 Natural marble of stairs	m	196	196	196	196	196	196	196.00
<u> </u> - ·	Project code number is the project number in the sample.	100 CTC							

2 The first two digits refers to the year (i.e. 90 refers to year 1990 & 91 refers to year 1991..etc) The second number refers to the number of area (i.e. 1 refers to Riyadh, 2 refers to Jeddah & 3 refers to Eastern Province), the third number refers to the project number in the specific year and area.

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L				Ē	Project Code Number	de Numb	er		
**	Work Items	Unit	1/1/06	90/1/2	90/1/3	90/1/4	90/1/5	90/1/6	Avg. Qty.
					Item Qu	Item Quantities			
16	Plastic weather-resistant paints	m ²	6550	6550	6550	6550	6550	6550	6550,00
1	17 White glazed ceramic tiles	m²	910	910	910	910	910	910	910.00
18	Insulator layer for moisture	m²	1850	1850	1850	1850	1850	1850	1850.00
19	Thermal insulation, horizontal	m²	1480	1480	1480	1480	1480	1480	1480.00
20		m²	1550	1550	1550	1550	1550	1550	1550.00
51		m²	2280	2280	2280	2280	2280	2280	2280.00
22	Plastic paints for interior ceilings (smooth American Texture)	m ²	1670	1670	1670	1670	1670	1670	1670.00
23		m ²	349	349	349	349	349	349	349.00
24	Hollow metallic doors	m ²	170	170	170	170	170	170	170.00
25		No.	103	103	103	103	103	103	103.00
26	Fluorescent lighting fixture, (2x40 watt) with reflector	No.	291	291	291	291	291	291	291.00
27	27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)	No.	22	17	35	39	20	32	27.50
28	Switch, A/C. window type (2x30 Amps)	No.	82	82	82	82	82	82	82.00
29	Lighting switch (15 Amps/127 volt)	No.	141	141	141	141	141	141	141.00
30	Main switchboard, school building	No.	1	-	1		-	-	1.00
31	Main distribution panelboard	No.	1	1	1	1		-	1.00
32	Thermoplastic cable (size 3x185x95 mm²)	E	330	260	260	260	260	260	271.67
33	Reinforced thermoplastic cable (size $30x240x120mm^{2}$)	æ	330	250	250	340	160	200	255.00
34	A/C unit windows type (cool/heat 1800 BUT/h,KW)	No.	82	82	82	82	82	82	82.00
35	Ceiling air fan {dia 142cm (56in)}	No.	80	80	80	80	80	80	80.00
36	Drinking water cooler (tank type)	No.	10	10	10	10	10	10	10

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Calculation For the Base Year Quantities of Price Index Items Educational Area - Jeddah Year 1990

				Pr	oject Cod	Project Ccde Number	er		
7#	Work Items	Unit 9(90/2/1	90/2/2	90/2/3	90/2/4	90/2/5	90/2/6	Avg. Qty
					Item Quantities	antities			
-	Recovertion work	۴. E	300	0	130	2300	2500	3500	1455.00
<u>-</u> [-	-1	е Г	1650	5000	1050	500	650	2400	1875.00
1 "	-	т г	2300	1550	1850	1400	1700	2800	1933.33
			220	320	325	300	260	370	299.17
* ~			490	620	560	575	525	680	575.00
	Natural cristed stone sub-base coarse	r z	475	485 ·	310	480	475	475	450.00
5	Ruildino made from Calcium Silicate Bricks	m²	620	600	450	780	780	570	633.33
~		m ² 2	2550	3500	1300	4100	4100	3100	3108.33
0	_	m ² 1	1640	1640	1550	1640	1640	1640	1625.00
15	_	m ³	1040	1040	1020	1040	1040	1040	1036.67
2 =	11 CMI walls with 15 cm thickness	m ² 1	1695	1695	1620	1695	1695	1695	1682.50
: 2	12 CMI walls with 20 cm thickness	m ² 2	2460	2460	2460	2460	2460	2460	2460.00
12	13 (Glazed mosaic files (size 30x3cm)	m ²	2580	2580	2580	2580	2580	2580	2580,00
3 2 	1.2 Cluster involute titre contraction of the films	m ² 1	1500	1500	1415	1500	1500	1500	1485.83
-	15 Matural marble of stairs	E	196	196	188	196	196	196	194.67
2								Continued	

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				đ	Project Code Number	de Numb	er		
*	Work Items	Unit	90/2/1	90/2/2	90/2/3	90/2/4	90/2/5	90/2/6	Avg. Qty
:					Item Quantities	lantities			
4	Plastic weather-resistant paints	m ²	6550	6550	6420	6550	6550	6550	6528.33
2 2	_	m ²	910	910	840	910	910	910	898,33
Ĭ		m²	1850	1850	1765	1850	1850	1850	1835,83
2 2		m²	1480	1480	1400	1480	1480	1480	1466.67
ŝ	-	m²	1550	1550	1550	1550	1550	1550	1550.00
3		m²	2280	2280	2280	2280	2280	2280	2280.00
; ?	Plastic paints for interior ceilings (smooth Americ	m²	1670	1670	1670	1670	1670	1670	1670.00
1 8	Aliminum windows	m ²	349	349	344	349	349	349	348.17
2 2	Hollow metallic doors	m²	170	170	170	170	170	170	170.00
i اړ	25 Filingescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted	No.	103	103	93	103	103	103	101.33
3		No.	291	291	291	291	291	291	291.00
3	27 If amn-nost for the site (4m high with 125 watt/220 volt lamp)	No.	21	30	16	35	26	29	26.17
28	Switch. A/C. window type (2x30 Amps)	No.	82	82	78	82	82	82	81.33
29		No.	141	141	122	141	141	141	137.83
R		No.	1	1	1	-	1	-	1.00
Ē		No.	1	1	1	1	-		1.00
33		E	260	260	260	260	260	260	260.00
19		u	460	480	400	350	200	280	361.67
2	A/C unit windows type (cool/heat 1800 BUT/h,KW	No.	82	82	87	82	82	82	82.83
3	_	No.	80	80	76	80	80	80	79.33
36	36 Drinking water cooler (tank type)	No.	10	10	10	10	10	10	10

Table 4.3	Calculation For the Base Year Quantities of Price Index Items	Educational Area - Eastern Province	Year 1990
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				٦ <u>۲</u>	Project Code Number	de Numb	er		
#	Work Items	Unit	90/3/1	90/3/2	90/3/3	90/3/4	90/3/5	90/3/6	Avg.Qty.
		<u>t</u>			Item Quantities	Intities			
-	Excavation work	°u	2500	0	800	5000	0	1900	1700.00
· ~	Backfilling work	em3	3400	5700	1450	220	4500	700	2661.67
"	Receiverion work for the foundation	г ^ш	1850	1000	1950	2150	4200	1700	2141.67
, ⊲		em3	315	270	265	355	370	250	304.17
· [^		ru ³	720	480	515	720	700	520	609.17
0		m²	485	490	385	475	480	475	465.00
1	-	m²	1050	620	640	920	840	820	815.00
×		m ²	4100	4100	3600	4100	4100	4100	4016.67
6		m²	1640	1640	1640	1640	1640	1640	1640.00
·l ²		m ³	1040	1040	1040	1040	1040	1040	1040.00
=	11 CMU walls with 15 cm thickness	m ²	1695	1695	1695	1695	1695	1695	1695.00
12	12 CMU walls with 20 cm thickness	m ²	2460	2460	2460	2460	2460	2460	2460.00
۳ ۳	13 Glazed mosaic tiles (size 30x30x3cm)	m ²	2580	2580	2580	2580	2.580	2580	2580.00
4	14 Floor tiling	1m ²	1500	1500	1500	1500	1500	1500	1500.00
12	15 Natural marble of stairs	E	196	196	196	196	196	196	196.00
							•	Continued	•

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				ā	Project Code Number	de Numb	er		
#	Work Items	Unit	90/3/1	90/3/2	90/3/3	90/3/4	90/3/5	90/3/6	Avg.Qty.
:					Item Qu	Item Quantities			
16	Plastic weather-resistant paints	m ²	6550	6550	6550	6550	6550	6550	6550,00
2		m²	910	910	910	910	910	910	910.00
ž		m ²	1850	1850	1850	1850	1850	1850	1850.00
2		m ²	1480	1480	1480	1480	1480	1480	1480.00
ŝ	-	m²	1550	1550	1550	1550	1550	1550	1550.00
2	-	m²	2280	2280	2280	2280	2280	2280	2280.00
: ?	Plastic naints for interior ceilings (smooth Americ	m²	1670	1670	1670	1670	1670	1670	1670.00
15		m²	349	349	349	349	349	349	349.00
24		m ²	170	170	170	170	170	170	170.00
25	Finorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted	No.	103	103	103	103	103	103	103,00
26	Fluorescent lighting fixture, (2x40 watt) with refle	No.	291	291	291	291	291	291	291.00
2		No.	45	3 9	29	48	37	36	39.00
28		No.	82	82	82	82	82	82	82.00
29	Lighting switch (15 Amps/127 volt)	No.	141	141	141	141	141	141	141.00
30	Main switchboard, school building	N0.	1	1	1	1	-		1.00
~	Main distribution panelboard	No.	1	1	1	1	1	1	1.00
3		u	260	260	260	260	260	260	260,00
33		æ	550	360	350	480	380	340	410.00
34	A/C unit windows type (cool/heat 1800 BUT/h,KW)	No.	82	82	82	82	82	82	82.00
33	35 [Ceiling air fan dia {142cm (56in)}	No.	80	80	80	80	80	80	80,00
36	36 Drinking water cooler (tank type)	No.	10	10	10	,10	10	10	10.00

4.1.1.2 Calculation of Items Prices for the Six Periods:

The prices for each item are shown in Table 4.4 for the year 1990 from the Riyadh area. The average of prices has been calculated for each item. This calculation procedure has been done for Jeddah and Eastern Province areas in Tables 4.5 and 4.6 respectively. This procedure has been repeated for each area in the other periods (i.e. 1991, 1992, 1993, 1994 and 1995) in Tables 4.7 to 4.21.

Table 4.4Calculation For the Base Year Prices of Price Index ItemsEducational Area - RiyadhYear 1990

L				P	Project Code Number	le Numb	er		Avg.
*	Work Items	Unit	1/1/06	90/1/2	90/1/3	90/1/4	90/1/5	90/1/6	Price
*					Items Prices in SR	ces in SR			(SR)
-	Toronation unwit	Ē	30	+	19	15	30	30	24.80
- -	Excavation work	Ē	20	15	22	10	20	20	17.83
4 6		Ē	35	20	39	30	32	30	31.00
		Ē	250	250	259	250	180	200	231.50
		Ē	700	700	529	800	650	650	671.50
<u>-</u> -	_	т ²	130	130	51	41	22	22	66.00
2	-	m²	70	70	129	90	120	120	99.83
- •		۲ ۳	50	50	49	50	70	70	56.50
• •		m²	20	20	18	20	22	22	20.33
ין		E ^m	700	700	661	800	720	720	716.83
1=	11 CMf1 walls with 15 cm thickness	۳,	30	30	29	32	40	40	33.50
: 2	CMTI waits with 20 cm thickness	m ²	35	35	38	36	45	45	39.00
<u>" </u> "	12 Glazad mosair tilas (siza 30x30m)	m²	60	60	51	45	60	60	56.00
12	1) United inosity into just concentration	ц,	35	35	38	30	36	36	35.00
-	14 Attout utities	E	200	200	115	150	150	150	160.83
-]-	1) * Means no price in the BOQ						Ŭ	Continued	

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				đ	roject Co	Project Code Number	er		Avg.
#	Work Items	Unit	1/1/06	90/1/2	90/1/3	90/1/4	90/1/5	90/1/6	Price
					Items Pri	tems Prices in SR			(SR)
91	Plastic weather-resistant paints	m ²	50	50	33	40	42	*	43.00
1	_	m ²	60	60	74	60	75	75	67.33
8		m²	30	30	29	22	32	42	30.83
19		m²	25	25	31	30	35	32	29.67
ຊິ		m²	25	25	17	16	26	35	24.00
5		m	60	40	29	28	30	30	36.17
22		m²	60	35	29	28	30	30	35.33
23		m²	450	450	479	380	300	300	393.17
24		m²	600	600	420	400	300	300	436.67
25	Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted	No.	200	200	180	240	200	200	203.33
12	26 Fluorescent lighting fixture, (2x40 watt) with reflector	No.	250	250	250	250	300	300	266.67
27	Lamp-post for the site (4m high with 125 watt/220 volt lamp)	No.	950	1000	1260	1200	1200	1200	1135.00
28	Switch, A/C. window type (2x30 Amps)	No.	250	250	200	200	200	200	216.67
29	Lighting switch (15 Amps/127 volt)	No.	150	150	110	120	120	120	128.33
30	Main switchboard, school building	No.	17000	17000	22000	20000	18000	18000	18666.67
3		No.	14000	14000	22000	20000	20000	20000	18333.33
32	Thermoplastic cable (size 3x185x95 mm ²)	m	120	120	119	150	120	120	124.83
33	Reinforced thermoplastic cable (size 30x240x120mm ²)	m	190	190	175	240	250	250	215.83
34	A/C unit windows type (cool/heat 1800 BUT/h,KW)	No.	1350	1350	1800	1600	2100	2100	1716.67
35	35 Ceiling air fan {dia 142cm (56in)}	No.	300	300	250	300	350	350	308.33
36	36 Drinking water cooler (tank type)	No.	2000	2000	2900	2000	3000	3000	2483.33
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Table 4.5Calculation For the Base Year Prices of Price Index ItemsEducational Area - JeddahYear 1990

				Ρŗ	oject Co(Project Code Number	er		Avg.
#	Work Items	Cuit Cuit	90/2/1	90/2/2	90/2/3	90/2/4	90/2/5	90/2/6	Price
		<u> </u>			Items Pri	Items Prices in SR			(SR)
-	Ryceavation work	ĨE	5		20	12	17	20	14.80
- -	Rackfilling work	ГЕ ГЕ	∞	12	15	10	17	15	12.83
4 ~	2 Recentation work for the foundation	е Ш	S	20	50	12	17	50	25.67
ר י	A Disin concrete work under the foundation	ĨE	190	220	250	190	239	250	223.17
+ 4	1 Jain Convector work for the foundation	ĨE	600	750	800	650	500	800	683.33
	6 Natural crushed stone suit-base coarse	ĨE	25	30	35	90	67	35	47.00
~	Building made from Calcium Silicate Bricks	m²	65	80	45	120	57	45	68.67
~	Concrete navers (40x5cm)	m²	28	55	55	67	76	55	56.00
) e	0 Plain concrete with 10 cm thickness	m²	20	30	21	20	23	21	22.50
۱ <u>۹</u>	10 Reinforced concrete for the whole superstructure	en.	620	800	800	650	756	800	737.67
2 =	11 ICMU walls with 15 cm thickness	m²	40	30	40	37	41	41	38.17
12	12 ICMU walls with 20 cm thickness	m²	45	40	45	39	48	45	43.67
1	13 (Glazed mosaic tiles (size 30x3cm)	m ²	45	55	60	56	57	60	55.50
2	14 Floor tiling	m2	28	25	40	31	37	40	33.50
<u>؟</u>	15 Natural marble of statis	æ	200	140	180	140	156	180	166.00
;								Continued	

Table 4.5 continued

				Pı	Project Code Number	Number			Avg.
#	Work Items	Unit	90/2/1	90/2/2	90/2/3	90/2/4	90/2/5	90/2/6	Price
:		<u>I</u>			Items Prices in SR	ces in SR			(SR)
 ¥	Plactic weather-resistant naints	г Ш	46	20	55	34	24	55	39.00
2 2	White olared ceramic files	m ²	54	65	50	53	49	50	53,50
18	Insulator laver for moisture	m²	42	30	20	47	28	20	31.17
2 6		m²	28	25	35	30	27	35	30.00
ŝ		m ²	22	20	30	27	_ 28	30	26.17
3		m ²	44	20	30	34	24	30	30.33
: 2	Plastic naints for interior ceilings (smooth Americ	m²	42	22	40	35	24	40	33.83
15	Aluminum windows	m²	650	450	520	390	550	520	513.33
24	Hollow metallic drorts	m ²	600	700	520	570	611	520	586.83
i X	25 Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted	No.	120	260	300	300	267	300	257.83
32	Finorescent lighting fixture. (2x40 wait) with reflector	No.	200	280	350	340	284	350	300.67
27	Lamn-nost for the site (4m high with 125 watt/220 volt lamp)	No.	1100	2000	2500	1600	1267	2500	1827.83
28	Switch. A/C. window type (2x30 Amps)	No.	100	500	300	280	239	300	286.50
20	Lighting switch (15 Amos/127 volt)	No.	60	140	200	210	156	200	161.00
ŝ	Main switchboard, school building	No.	32000	20000	22000	23000	34667	22000	25611.17
- -	Main distribution panelboard	No.	35000	25000	22000	36000	38667	22000	29777.83
: 2	Thermonlastic cable (size 3x185x95 mm²)	٤	120	100	225	140	193	225	167.17
: ::	Reinforced thermonlastic cable (size 30x240x120mm ²)	E	160	160	260	200	253	260	215.50
2		No.	2000	1000	1800	1700	1778	1800	1679.67
35	Ceiling air fan {dia 42cm (56in)}	No.	220	350	400	330	433	400	355,50
36	36 Drinking water cooler (tank type)	No.	2400	2500	3000	3300	2333	3000	2755.5
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Table 4.6Calculation For the Base Year Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1990

L					Project Co	Project Code Number			Avg.
≈ŧ	Work Items	Unit	90/3/1	90/3/2	90/3/3	90/3/4	90/3/5	90/3/6	Price
		1			Items Pri	Items Prices in SR			(SR)
-	Excevation work	en3	10	•	12	11	*	9	9.75
· ~	Backfilling work	°n	14	14	14	9	6	8	10.33
"		ru3	22	25	16	12	8	7	15.00
	- r	сп Е	173	173	173	173	180	180	175.33
~	Reinforced concrete work for the foundation	۳ ۳	570	560	560	570	540	540	556.67
<u>ہ</u>		m2	125	125	125	125	30	30	93.33
-	_	m²	58	58	58	58	40	40	52.00
. o	_	m²	56	56	30	56	45	45	48.00
0	_	m²	18	18	18	18	25	25	20.33
<u>ا</u>		°.	620	620	620	620	575	575	605.00
=	11 CMU walls with 15 cm thickness	m²	28	28	28	28	40	40	32.00
2	12 CMU walls with 20 cm thickness	m^2	31	31	31	31	45	45	35.67
2	13 [Glazed mosaic tiles (size 30x30x3cm)	m²	48	48	48	48	50	50	48.67
7	14 Floor tiling	m²	32	32	32	32	35	35	33.00
ľ2	15 Natural marble of stairs	E	132	132	132	132	150	150	138.00
								Continued	

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				Ē	Project Code Number	de Numb	er		Avg.
74	Work Items	Unit	90/3/1	90/3/2	90/3/3	90/3/4	90/3/5	90/3/6	Price
E		<u> </u>			Items Prices in SR	ces in SR			(SR)
16	Dlactic weather resistant maints	m ²	28	28	28	28	28	25	27.50
212	A tasto require recommendation of the second s	m²	58	58	58	58	80	80	65.33
12	Truct Bueck South the second states	ш²	45	45	45	45	8	8	32.67
2 2		m²	27	27	27	27	25	25	26.33
		m²	19	19	19	19	22	22	20.00
3 5	Diaction memory, versue. Diactic maints for interior walls (smooth American Texture)	m²	26	26	26	26	25	25	25.67
<u>1</u> 5		m²	26	26	26	26	25	25	25.67
3 2	Aluminum windows	m²	421	421	300	421	450	450	410.50
32	Hallow metallic doore	ш ⁷	450	450	450	450	350	350	416.67
3 4	25 Rinorescent fighting fixing (1x4 watt), with plastic cover ceiling mounted	No.	316	316	316	316	220	220	284.00
24	Runnescent lighting fixture (2x40 watt) with refle	No.	360	360	360	360	220	220	313.33
3 5	27 If ammonst for the site (4m high with 125 watt/220 volt lamp)	No.	1040	1090	1110	1015	1000	1000	1042.50
300		°,	240	240	240	240	120	120	200.00
200	Lighting switch (15 Amns/127 volt)	No.	190	190	190	190	70	70	150.00
	Main switchhoard school building	No.	20000	20000	20000	20000	18000	11000	18166.67
÷	Main distribution nanelboard	No.	21250	21250	21250	21250	18000	18000	20166.67
: ?		٤	138	146	138	138	130	130	136.67
3 8		E	192	200	192	192	180	180	189.33
2 2	A/C unit windows type (cool/heat 1800 BUT/h.KV	No.	1725	1725	1725	1725	1800	1800	1750.00
5		No.	381	381	381	381	240	240	334,00
2	36 Drinking water cooler (tank type)	No.	2818	2818	2818	2818	1500	1500	2378.67
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Table 4.7 Calculation of the Prices of Price Index Items Educational Area - Riyadh Year 1991

				Ъr	oject Co	Project Code Number	er		Avg.
**	Work Items	Unit	1/1/16	91/1/2	91/1/3	91/1/4	91/1/5	91/1/6	Price
:				Ite	Items Prices in SR	n SR			(SR)
-	Excevation work	ΓE	\$	12	15	10	5	45	15.33
· ^		٣E	15	25	10	10	10	15	14,17
1	_	ΓE	40	45	40	40	40	35	40.00
	Plain concrete work under the foundation	re E	180	180	180	180	180	200	183.33
<u>۲</u>	5 Reinforced concrete work for the foundation	Ē	630	620	680	620	620	400	595,00
<u> </u>	6 Natural crushed stone sub-base coarse	ц,	30	35	30	30	30	25	30.00
۰ ۲	Buildino made from Calcium Silicate Bricks	٦u	90	60	90	90	90	100	91.67
~		Ē	52	52	52	52	52	45	50.83
0	_	m²	16	16	16	16	16	20	16.67
) e		٦E	650	650	650	650	650	500	625,00
=		m²	30	30	30	30	30	40	31.67
12		m²	33	33	33	33	33	45	35.00
۲ <u>۳</u>		۳ ۳	52	52	52	52	52	45	50.83
17	14 Floor tiling	٦Щ	35	35	35	35	35	30	34.17
Ĩ	15 Natural marble of stairs	E	160	160	160	160	160	150	158.33
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#	Work Items	Unit	1/1/16	91/1/2	91/1/3	91/1/4	91/1/5	91/1/6	Price
					Items Pri	ltems Prices in SR			(SR)
16	Plastic weather-resistant paints	m²	34	34	34	34	34	15	30.83
17		m²	65	65	65	65	65	50	62.50
18		m²	35	35	35	35	35	40	35.83
61		m²	26	26	26	26	26	40	28.33
20		m²	20	20	20	20	20	30	21.67
51	Plastic paints for interior walls (smooth American Texture)	m ²	30	30	30	30	30	15	27.50
22	Plastic paints for interior ceilings (smooth American Texture)	m²	30	30	30	30	30	15	27.50
23	_	m²	500	500	500	500	500	250	458.33
24	Hollow metallic doors	m²	600	600	600	600	600	300	550.00
25	25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted	No.	250	250	250	250	250	250	250.00
26	Fluorescent lighting fixture, (2x40 watt) with reflector	No.	280	280	280	280	280	300	283.33
27	27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)	No.	900	900	900	900	900	906	900.006
28	Switch, A/C. window type (2x30 Amps)	No.	210	210	210	210	210	150	200,00
29	Lighting switch (15 Amps/127 volt)	No.	140	140	140	140	140	100	133,33
ŝ	30 Main switchboard, school building	No.	28000	28000	28000	28000	28000	20000	26666.67
31	31 Main distribution panelboard	No.	30000	30000	30000	30000	30000	25000	29166.67
32	Thermoplastic cable (size 3x185x95 mm ²)	u	120	120	120	120	120	200	133.33
ŝ	Reinforced thermoplastic cable (size 30x240x120mm ²)	Ħ	175	175	175	175	175	211.5	181.08
34	A/C unit windows type (cool/heat 1800 BUT/h,KW)	No.	1600	1600	1600	1600	1600	2000	1666.67
35	35 [Ceiling air fan {dia 142cm (56in)}	No.	320	320	320	320	320	250	308.33
36	36 Drinking water cooler (tank type)	No.	1800	1800	1800	1800	1800	2000	1833.33

Table 4.8Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1991

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				H	Project Code Number	le Number			Avg.
7	Work Items	Unit Unit	91/2/1	91/2/2	91/2/3	91/2/4	91/2/5	91/2/6	Price
k		<u> </u>			Items Prices in SR	ces in SR			(SR)
-	Reconstition work	۳ ۳	15	15	10	15	15	3	12.17
- ^		ſ E	25		15	•	*	15	18,33
10		۳ ۳	25	20 ·	15	20	20	60	26.67
	DAcia values were to the foundation	ĨE	300	300	300	300	325	220	290.83
t v	 Fraint Contracter work for the foundation 	۳ ³	650		650	650	700	750	675.00
<u>י</u> ן י	6 Network with the sub-hase coarse	т <mark>2</mark>	99	<u>66</u>	99	<u>66</u>	66	35	60.83
2	7 Duilding mada from Calcium Silicate Bricks	^z u	140	140	140	140	140	60	126.67
- •	Converse navers (d0v40v5cm)	ц,	50	75	75	75	75	70	70.00
• •	_	۳ ۳	18	18	18	18	18	25	19.17
		ĨE	100	700	700	700	750	750	716.67
2 =	11 CMIT wells with 15 cm thickness	т ² ш	42	42	42	42	42	35	40.83
: 2	11 CMU walls with 20 cm thickness	m²	46	46	46	46	46	40	45.00
12	12 Chromans want 20 Vin unsweeder	<u>م</u>	60	60	60	60	60	40	56.67
12	1.1 Place invoir the other concerns.	m ²	35	35	35	35	35	30	34.17
<u>۲</u>	15 Matural markle of stairs	٤	190	190	190	190	190	150	183.33
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						Project Code Number	de Number			Avg.
Image Image <t< td=""><td>#</td><td>Work Items</td><td>Unit</td><td>91/2/1</td><td>91/2/2</td><td>91/2/3</td><td>91/2/4</td><td>91/2/5</td><td>91/2/6</td><td>Price</td></t<>	#	Work Items	Unit	91/2/1	91/2/2	91/2/3	91/2/4	91/2/5	91/2/6	Price
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						Items Pri	ces in SR			(SR)
m² 66 66 66 66 66 63 53 m² 14 18 18 18 20 25 25 15 15 m² 14 18 18 18 20 20 20 20 smooth American Texture) m² 14 14 14 20 20 smooth American Texture) m² 34 34 34 35 25 25 20 20 smooth American Texture) m² 30 <t< td=""><td>16</td><td></td><td>m²</td><td>40</td><td>40</td><td>40</td><td>40</td><td>40</td><td>45</td><td>40.83</td></t<>	16		m ²	40	40	40	40	40	45	40.83
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	1	White glazed ceramic tiles	m²	99	66	99	66	66	53	63.83
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$	18	Insulator layer for moisture	m²	25	25	25	25	25	15	23.33
m ² m ² 14 14 14 14 14 20 smooth American Texture) m ² 34 34 34 34 35 (smooth American Texture) m ² 30 30 30 30 37 35 (smooth American Texture) m ² 30 30 30 30 30 35 (smooth American Texture) m ² 350 350	6	Thermal insulation, horizontal	m²	14	18	18	18	18	20	17.67
amooth American Texture) m^2 34 34 34 34 34 34 34 34 35 <t< td=""><td>2</td><td>Thermal insulation, vertical</td><td>m²</td><td>14</td><td>14</td><td>14</td><td>14</td><td>14</td><td>20</td><td>15.00</td></t<>	2	Thermal insulation, vertical	m²	14	14	14	14	14	20	15.00
	5		m ²	34	34	34	34	34	35	34,17
m ² 350 350 350 350 320 320 watt), with plastic cover ceiling mounted m ² 400 400 400 400 200 200 watt), with plastic cover ceiling mounted No. 285 285 285 285 285 285 285 230 0 watt) with reflector No. 385 385 385 385 235 230 10 watt) with reflector No. 385 385 385 385 230 230 11 125 watt/220 volt lamp) No. 1300 1100 1100 1100 1100 1500	22	Plastic paints for interior ceilings (smooth American Texture)	m ²	30	30	30	30	30	45	32,50
m ² 400 400 400 400 400 200 watt), with plastic cover ceiling mounted No. 285 285 285 285 180 200 0 watt) with reflector No. 385 285 285 285 285 180 230 0 watt) with reflector No. 385 385 385 385 230 230 0 watt) with reflector No. 1100 1100 1100 1100 150 150 150 230 Amps) No. 140 140 140 140 150 150 150 150 100 Rups) No. 140 140 140 140 150 150 2500 2500 2500 2500 2500 2500 2500 2500 2500 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250 250	23	Aluminum windows	m²	350	350	350	350	350	320	345.00
watt), with plastic cover ceiling mountedNo. 285 285 285 285 285 180 180 0 watt), with reflectorNo. 385 385 385 385 385 230 230 0 watt) with reflectorNo. 385 385 385 385 230 1500 1100 1100 1100 1500 $ith 125$ watt/220 volt lamp)No. 1100 1100 1100 1100 1100 1500 1500 $Amps$)No. 155 155 155 155 155 100 1500 bt No. 35000 35000 35000 35000 35000 25000 25000 gt No. 39000 39000 39000 39000 39000 39000 25000 25000 gt m 170 175 175 175 175 175 200 gt m ² 205 205 205 205 205 205 205 200 gt 170 175 175 175 175 200 2000 gt 100 1650 1650 1650 205 205 205 205 gt 100 100 1050 1650 1650 1650 200 200 gt 100 100 1050 1650 1650 205 200 200 gt 100 100 100 100 200 200 </td <td>24</td> <td>Hollow metallic doors</td> <td>m²</td> <td>400</td> <td>400</td> <td>400</td> <td>400</td> <td>400</td> <td>200</td> <td>366.67</td>	24	Hollow metallic doors	m²	400	400	400	400	400	200	366.67
	25	Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted	No.	285	285	285	285	285	180	267.50
rift 125 wett/220 volt lamp)No.11001100110015001500Amps)No.1551551551551551551001500(1)No.1401401401401401501500250002000<	26	Fluorescent lighting fixture, (2x40 watt) with reflector	No.	385	385	385	385	385	230	359.17
Amps)Amps)ISS155155155100(t)(t)No.140140140140150 g No.350003500035000350003500035000 g No.390003900039000390003900030000 $95 nm^3$ n170175175175200 $95 nm^3$ n205205205200 $95 nm^3$ n2051650165016502000 $1800 BUT/h, KW)$ No.1650165016501650200 $1800 BUT/h, KW)$ No.3503503502002000 $1800 BUT/h, KW)$ No.20002000200020002000 $1800 BUT/h, KW)$ No.20002000200020002000 $1800 BUT/h, KW)$ No.20002000200020002000 $1800 BUT/h, KW)No.200020002000200020001800 BUT/h, KW)No.20002000200020002000$	27		No.	1100	1100	1100	1100	1100	1500	1166.67
It) No. 140 140 140 140 150 g No. 35000 35000 35000 35000 35000 25000 25000 g No. 39000 39000 39000 39000 39000 39000 300	28	Switch, A/C. window type (2x30 Amps)	No.	155	155	155	155	155	100	145.83
g No. 35000 35000 35000 35000 35000 35000 25000 25000 25000 25000 2000	29	Lighting switch (15 Amps/127 volt)	No.	140	140	140	140	140	150	141.67
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	8	Main switchboard, school building	No.	35000	35000	35000	35000	35000	25000	33333,33
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Main distribution panelboard	No.	39000	39000	39000	39000	39000	30000	37500.00
ize 30x240x120mm ²) m 205 205 205 205 205 250 280 BUT/h,KW) No. 1650 1650 1650 1650 1650 2000 1 2000 350 350 350 350 2000 350 2000 2000	32	Thermoplastic cable (size 3x185x95 mm ²)	٤	170	175	175	175	175	200	178.33
1800 BUT/h,KW) No. 1650 1650 1650 1650 1650 2000 2000 1 1650 2000 2000 1 1650 2000 2000 2000 2000 2000 2000 2000 2	33	Reinforced thermoplastic cable (size 30x240x120mm ²)	Ħ	205	205	205	205	205	250	212.50
} No. 350 350 350 350 350 200 200 2000 2000 2	34	A/C unit windows type (cool/heat 1800 BUT/h,KW)	No.	1650	1650	1650	1650	1650	2000	1708.33
No. 2000 2000 2000 2000 2000 2000 2000 20	35	Ceiling air fan {dia142cm (56in)}	No.	350	350	350	350	350	220	328.33
	36	Drinking water cooler (tank type)	No.	2000	2000	2000	2000	2000	2000	2000

Table 4.9Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1991

		-			Project Co	Project Code Number			Avg.
#	Work Items	Chit	91/3/1	91/3/2	91/3/3	91/3/4	91/3/5	91/3/6	Price
					Items Pri	ltems Prices in SR			(SR)
-	Recover tion work	٣E	15	20	5	20	*	12	14.40
· ·		Ĩ	15	20	13.5	20	20	- 14	17.08
"		r E	60	80	20	50	80	23	52.17
		Ē	250	250	200	250	250	173	228.83
· ~		r _e	650	650	630	650	650	570	633,33
	-	r E	50	50	80	50	50	125	67.50
-		m²	60	•	*	60	60	58	59.50
~	Concrete navers (40x40x5cm)	m²	30	30	40	30	30	56	36.00
0		m²	20	20	20	20	20	18	19.67
e ا		ГЕ	750	750	700	750	750	620	720.00
=	11 ICMU walls with 15 cm thickness	ĩE	40	40	30	40	40	28	36.33
2	12 ICMUT walls with 20 cm thickness	m²	45	45	33	45	45	30	40.50
<u>۳</u>	13 (Glazed mosaic tiles (size 30x30m)	m²	35	35	33	35	35	48	36.83
14	14 Floor tiling	m ²	26	26	26	26	26	32	27.00
15	15 Natural marble of stairs	٤	200	200	110	200	200	132	173.67
								Continued	

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					Project Code Number	le Number			Avg.
#	Work Items	Unit	91/3/1	91/3/2	91/3/3	91/3/4	91/3/5	91/3/6	Price
:					Items Prices in SR	ces in SR			(SR)
4	Plastic weather-resistant paints	m²	35	35	14	35	35	30	30.67
2		m²	70	70	50	70	70	58	64.67
: <u>~</u>		m²	20	20	36	20	20	45	26.83
2 2		m2	22	22	31	22	22	27	24.33
ŝ	Themal insulation. vertical	m ²	18	18	18	18	18	19	18.17
1		m²	35	35	14	35	35	28	30.33
12	Plastic naints for interior ceilings (smooth Americ	m²	35	35	15	35	35	28	30.50
1	Aluminum windows	m²	320	320	340	320	320	439	343.17
24	Holtow metallic doors	m²	300	300	620	300	300	450	378.33
25	Fluorescent lighting fixture. (1x4 watt). with plastic cover ceiling mounted	No.	320	320	320	320	320	316	319.33
26	Fluorescent lighting fixture, (2x40 watt) with refle	No.	360	360	350	360	360	360	358.33
27	I amp-most for the site (4m high with 125 watt/220 volt lamp)	No.	1000	1000	560	1000	1000	1185	957.50
28	Switch. A/C. window type (2x30 Amps)	No.	500	500	245	500	500	240	414.17
29	I iehting switch (15 Amos/127 volt)	No.	250	250	200	250	250	190	231.67
8	Main switchboard, school building	No.	40000	40000	25000	40000	40000	20000	34166.67
31	Main distribution manelboard	No.	45000	45000	32000	45000	45000	21250	38875.00
8	Thermonlastic cable (size 3x185x95 mm ²)	٤	140	140	235	140	140	138	155.50
8	Reinforced thermoolastic cable (size 30x240x120mm ²)	E	150	180	320	180	180	192	200.33
25	A/C unit windows type (cool/heat 1800 BUT/h,KV	No.	1400	1400	1710	1400	1400	1725	1505.83
35	Ceiling air fan dia {142cm (56in)}	No.	400	400	370	400	400	381	391.83
36	36 Drinking water cooler (tank type)	No.	3000	3000	3500	3000	3000	2818	3053.00
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Table 4.10Calculation of the Prices of Price Index ItemsEducational Area - RiyadhYear 1992

				Pr	oject Co	Project Code Number	er		Avg.
71	Work Items	Unit	92/1/1	92/1/2	92/1/3	92/1/4	92/1/5	÷	Price
:		-			tems Pric	Items Prices in SR			(SR)
-	Excavation work	٣E	15	90	15	10	15		29.00
<u>م</u>	2 Backfilling work	с ^н	10	29	12	25	10		17.20
5	3 Excavation work for the foundation	с Ш	15	35	30	50	15		29.00
	4 Plain concrete work under the foundation	٣	250	157	250	180	200		207.40
~	5 Reinforced concrete work for the foundation	٣E	700	450	700	650	700		640.00
9	Natural crushed stone sub-base coarse	m²	30	28	40	25	30		30.60
5	Building made from Calcium Silicate Bricks	m²	60	58	90	110	60		75.60
∞		m²	40	48	45	60	35		45.60
6	-	m²	30	16	25	18	25		22.80
2	10 Reinforced concrete for the whole superstrucutre	۶	700	475	800	700	700		675.00
=	11 CMU walls with 15 cm thickness	m²	60	28	35	34	45		40.40
12	12 CMU walls with 20 cm thickness	m²	70	29	40	35	60		46.80
1	13 Glazed mosaic tiles (size 30x30x3cm)	m²	40	35	45	48	40		41.60
14	14 Floor tiling	m²	25	25	25	38	25		27.60
15	15 Natural marble of stairs	m	200	120	150	140	200		162.00
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1) If there is complete column without data that means there were not enough projects in the sample for the specified area and year.

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L					Project Code Number	le Number		W	Avg.
7#	Work Items	Unit	92/1/1	92/1/2	92/1/3	92/1/4	92/1/5	Pr	Price
2		<u>.</u>			Items Prices in SR	ces in SR		(SR)	3
12	16 [Plastic weather-resistant paints	m²	40	13	7	25	20	21.	21.00
2 :	White plazed ceramic tiles	m²	70	52	60	50	70	60.40	40
≃		m²	25	50	30	50	27	36.40	6
=		m²	30	44	25	35	30	32.80	80
; S		m2	50	26	20	27	30	24.60	60
۽ ا <u>ت</u>		m ²	25	13	8	20	25	18.	18.20
: ?	Plastic paints for interior ceilings (smooth Americ	m²	25	14	8	20	25	18.	18.40
15		m²	400	330	400	.350	400	376	376.00
7		m ²	600	300	500	600	600	520	520.00
12		No.	350	80	250	200	350	246	246.00
26	Fluorescent lighting fixture. (2x40 watt) with refle	No.	400	93	300	250	400	288	288.60
27	I amn-most for the site (4m high with 125 watt/220 volt lamp)	No.	1600	250	2000	800	1600	125(1250.00
28	Switch. A/C. window type (2x30 Amps)	No.	200	70	500	300	200	254	254.00
ເຊ		No.	120	54	160	150	120	120	120.80
ę	Main switchboard, school building	No.	8500	26000	30000	15000	8500	1760	17600.00
- 	Main distribution panelboard	No.	10000	34000	35000	18000	10000	21400.00	0.00
8		E	90	133	180	100	90	118	118.60
÷۳		E	160	135	220	180	160	171	171.00
34	A/C unit windows type (cool/heat 1800 BUT/h,KV	No.	2000	1480	1300	1500	2000	165(1656.00
35	Ceiling air fan {dia 142cm (56in)}	No.	350	157	400	250	400	311.40	40
8	36 Drinking water cooler (tank type)	No.	3500	2700	2500	1800	3500	2800.00	00.0
<u> </u>									

Table 4.11Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1992

				Pr	oject Co(Project Code Number	эг		Avg.
74	Work Items	Unit	92/2/1	92/2/2	92/2/3	92/2/4	92/2/5	92/2/6	Price
=		<u> </u>			Items Prices in SR	ces in SR			(SR)
-	Reconstitut work	ГШ ГШ	10	10	•	10	10	40	16.00
- -	EAkavuuvu wora Boolefilina uvark	ĨE	15	15	15	15	15	15	15.00
• ا	Datanting work	Ĩ	50	25	20	20	20	20	20.83
<u>-</u>	EXCAVATION WOLN TO THE TOTAL AND A THE FOUNDATION	° II	338	308	308	308	308	250	303.33
+ 4	Friditt Collecter Work mutuation Deinfermant annarete unarte far the faundation	°.	750	745	745	750	745	750	747.50
<u>-</u> -		m2	33	33	33	33	33	40	34.17
<u></u>		т ²	124	124	124	124	124	90	118.33
- •	Dullucity filmer Hour Carving Difference Difference	m²	47	47	47	47	47	50	47.50
• •	_	m2	25	25	25	25	25	25	25.00
~ 2		r E	828	808	800	808	800	850	815.67
리=	10 Actinitical write 15 cm thickness	۳ ²	19	19	61	61	61	38	57.17
: 2	11 Otto wate vite 20 an anomene	۲ ۳	64	64	64	64	64	40	60.00
<u>1</u>	12 CityO Muine Manuero Sun anomeneo 13 Glazad mocaine tites (size 30x30x3cm)	۳3 ع	63	63	63	63	63	50	60.83
3	1.1 Plant filing	E ²	30	30	30	30	30	30	30.00
[] <u>~</u>	15 Mahiral marhle of stairs	E	163	163	163	163	163	160	162.50
								Continued	

Table 4.11 continued

					Project Code Number	le Number			Avg.
#	Work Items	Unit	92/2/1	92/2/2	92/2/3	92/2/4	92/2/5	92/2/6	Price
					Items Prices in SR	ces in SR			(SR)
12	Plastic weather-resistant vaints	m2	15	15	15	15	15	8	13.83
1		m²	53	53	53	53	53	60	54.17
18	Insulator laver for moisture	m²	60	60	60	60	60	30	55.00
19	Thermal insulation. horizontal	n2	18	18	18	18	18	25	19.17
2		m2	30	30	30	30	30	20	28.33
7		m²	15	15	15	15	15	8	13.83
12	Plastic paints for interior ceilings (smooth Americ	m²	15	15	15	15	15	8	13.83
5	Aluminum windows	m²	400	400	400	400	400	400	400.00
2		m²	1100	1100	1100	1100	1100	500	1000.00
2	25 Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted	No.	170	170	170	170	170	250	183.33
8	26 Fluorescent lighting fixture. (2x40 watt) with reflector	No.	259	259	259	259	259	300	265.83
5	27 [Lamp-post for the site (4m high with 125 watt/220 volt lamp)	No.	2100	2100	2100	2100	2100	2000	2083.33
28	Switch, A/C. window type (2x30 Amps)	No.	195	195	195	195	195	500	245.83
29		No.	110	110	110	110	110	150	116.67
R	30 Main switchboard, school building	No.	17400	17400	17400	17400	17400	25000	18666.67
31	Main distribution panelboard	No.	17400	17400	17400	17400	17400	30000	19500.00
2	32 Thermoplastic cable (size 3x185x95 mm ²)	E	66	66	66	66	66	150	107.50
33	Reinforced thermoplastic cable (size 30x240x120mm ²)	E	165	165	165	165	165	220	174.17
34		No.	1400	1400	1400	1400	1400	1300	1383.33
35	Ceiling air fan {dia142cm (56in)}	No.	665	665	665	665	665	400	620.83
8	36 Drinking water cooler (tank type)	No.	2000	2000	2000	2000	2000	2500	2083,3333
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Table 4.12Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1992

				P	Project Code Number	Number			Avg.
#	Work Items	Unit	92/3/1	92/3/2	92/3/3	92/3/4	92/3/5	92/3/6	Price
					Items Pri	Items Prices in SR			(SR)
-	Excavation work	m3	•	11	12	11	40	40	22.80
2	Backfilling work	m ³	9	9	7	9	15	15	9.17
	Excavation work for the foundation	°m	20	12	12	15	40	40	23.17
4	Plain concrete work under the foundation	ru ³	173	173	200	180	250	250	204.33
5	Reinforced concrete work for the foundation	°m	580	580	575	580	700	700	619.17
9	Natural crushed stone sub-base coarse	m²	82	60	120	60	60	60	73.67
-	Building made from Calcium Silicate Bricks	m²	75.5	75.5	58	80	45	*	66.80
×	Concrete payers (40x40x5cm)	m²	56	56	50	57	50	50	53.17
6	Plain concrete with 10 cm thickness	m²	18	18	18	18	25	25	20.33
2	10 Reinforced concrete for the whole superstrucutre	m ³	650	650	620	650	550	600	620.00
=	11 CMU walls with 15 cm thickness	m ²	33	28	32	31	45	45	35.67
12	12 CMU walls with 20 cm thickness	m²	34	31	35	32	50	47	38.17
13	13 Glazed mosaic tiles (size 30x30x3cm)	m ²	49	48	50	48	50	50	49.17
14	14 Floor tiling	m²	36	35	38	35	32	32	34.67
15	15 Natural marble of stairs	E	143	150	132	143	200	180	158.00
]							J	Continued	

Table 4.12 continued

				P	Project Code Number	Number			Avg.
*	Work Items	Unit	92/3/1	92/3/2	92/3/3	92/3/4	92/3/5	92/3/6	Price
:					Items Prices in SR	ces in SR			(SR)
16	Plastic weather-resistant paints	m²	16	16	16	16	16	20	16.67
-	17 White plazed ceramic tiles	m²	60	58	75	58	90	90	71.83
: ≃	Insulator laver for moisture	m²	45	45	45	45	30	30	40.00
<u>=</u>		m²	27	27	27	27	25	27	26.67
2	Thermal insulation. vertical	m²	20	20	29	20	25	25	23.17
3	Plastic naints for interior walls (smooth American Texture)	m²	16	16	16	16	15	17	16.00
22	Plastic paints for interior ceilings (smooth Americ	m²	16	16	16	16	15	17	16.00
31	Aluminum windows	m²	400	400	350	400	500	500	425.00
24	Hollow metallic doors	т т	650	650	450	650	550	600	591.67
25	Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted	No.	313	313	310	, 313	250	300	299.83
26	Fluorescent lighting fixture. (2x40 watt) with refle	No.	278	278	350	287	320	350	310.50
27	Lamp-post for the site (4m high with 125 watt/220 volt lamp)	No.	1150	1150	1000	1150	2000	2000	1408.33
28	Switch. A/C. window type (2x30 Amos)	No.	200	240	225	200	50	180	182.50
29	Lighting switch (15 Amos/127 volt)	No.	130	150	160	150	150	160	150.00
6	30 Main switchboard, school building	No.	20000	20000	22500	20000	10000	8000	16750.00
31	Main distribution panelboard	No.	21250	21250	23500	21250	12000	10000	18208.33
33	Thermoplastic cable (size 3x185x95 mm ²)	E	138	138	138	138	160	140	142.00
33	Reinforced thermoplastic cable (size 30x240x120mm ²)	E	190	190	184	190	190	220	194.00
34		No.	1725	1725	1700	1725	1000	1000	1479.17
35	Ceiling air fan dia {142cm (56in)}	No.	380	381	365	380	400	400	384.33
36	36 Drinking water cooler (tank type)	No.	2750	2725	2750	2750	2500	2500	2662.50

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Table 4.13Calculation of the Prices of Price Index ItemsEducational Area - RiyadhYear 1993

				Pr	oject Co	Project Code Number	er		Avg.
#	Work Items	Unit	93/1/1	93/1/2	93/1/3	93/1/4	93/1/5	93/1/6	Price
		L			Items Pri	Items Prices in SR			(SR)
-	Excavation work	m ³	20	20	20	50	+	15	25,00
2	Backfilling work	m ³	15	15	15	50	18	20	22.17
6		em.	50	50	30	36	56	60	47.00
4	Plain concrete work under the foundation	em ³	260	250	260	210	230	255	244.17
s S	Reinforced concrete work for the foundation	em.	850	800	850	740	825	650	785.83
9	Natural crushed stone sub-base coarse	m²	46	40	46	110	46	60	58,00
5	Building made from Calcium Silicate Bricks	m²	180	170	180	100	165	120	152.50
∞	Concrete pavers (40x40x5cm)	m²	50	45	50	40	36	58	46.50
0		m ²	22	20	22	22	23	22	21.83
2	10 Reinforced concrete for the whole superstructure	т ³	006	830	900	800	993	750	862.17
=	11 CMU walls with 15 cm thickness	m²	36	34	36	32	38	40	36.00
12	12 CMU walls with 20 cm thickness	m ²	40	38	40	36	41	45	40.00
≏	13 Glazed mosaic tiles (size 30x30x3cm)	m²	50	50	50	45	52	42	48.17
4	14 Floor tiling	m²	32	32	32	30	34	33	32.17
13	15 Natural marble of stairs	u	200	150	200	180	180	140	175.00
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|----------------|-------------------------------------------------------------------|----------------|--------|--------|-----------|----------------------------|--------|--------|----------|
| 7#             | Work Items                                                        | Unit           | 93/1/1 | 93/1/2 | 93/1/3    | 93/1/4                     | 93/1/5 | 93/1/6 | Price    |
| :              |                                                                   |                |        |        | Items Pri | ltems Prices in SR         |        |        | (SR)     |
| 16             | 16 Plastic weather-resistant paints                               | m <sup>2</sup> | 20     | 18     | 20        | 15                         | 18     | 20     | 18.50    |
| 2              | White plazed ceramic tiles                                        | m <sup>2</sup> | 65     | 65     | 65        | 70                         | 77     | 55     | 66.17    |
| : ≃            | 18 Insulator laver for moisture                                   | m <sup>2</sup> | 30     | 30     | 30        | 42                         | 49     | 40     | 36.83    |
| 2              | Themas insulation. Anticontal                                     | m <sup>2</sup> | 30     | 30     | 30        | 40                         | 23     | 35     | 31.33    |
| ŝ              |                                                                   | m²             | 24     | 22     | 24        | 40                         | 19     | 22     | 25.17    |
| <u>ج</u> ا     |                                                                   | m²             | 16     | 91     | 16        | 15                         | 17     | 20     | 16.67    |
| : 2            | Plastic paints for interior ceilings (smooth Americ               | m <sup>2</sup> | 16     | 16     | 16        | 15                         | 17     | 20     | 16.67    |
| 12             | _                                                                 | m²             | 400    | 400    | 400       | 425                        | 370    | 400    | 399.17   |
| 2 2            |                                                                   | m²             | 009    | 500    | 600       | 600                        | 850    | 800    | 658.33   |
| Ĩ              |                                                                   | No.            | 240    | 220    | 240       | 320                        | 250    | 195    | 244.17   |
| 3              | 26 Fluorescent lighting fixture. (2x40 watt) with reflector       | No.            | 300    | 300    | 300       | 380                        | 330    | 400    | 335.00   |
| 3 5            | 27 If nun-nost for the site (4m high with 125 watt/220 volt lamp) | No.            | 1000   | 800    | 1000      | 1800                       | 2520   | 1700   | 1470.00  |
| <u>ج</u> از    |                                                                   | No.            | 200    | 180    | 200       | 350                        | 170    | 170    | 211.67   |
| 29             | Liehting switch (15 Amps/127 volt)                                | No.            | 130    | 130    | 130       | 320                        | 175    | 120    | 167.50   |
| 1<br>2<br>2    | Main switchboard, school building                                 | No.            | 30000  | 30000  | 30000     | 35000                      | 15000  | 18000  | 26333.33 |
| ~              |                                                                   | No.            | 40000  | 40000  | 40000     | 21000                      | 22000  | 20000  | 30500.00 |
| 8              | Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )              | E              | 140    | 130    | 140       | 200                        | 118    | 105    | 138.83   |
| ÷۲             |                                                                   | E              | 200    | 200    | 200       | 230                        | 182    | 180    | 198.67   |
| 5 <del>7</del> |                                                                   | No             | 1500   | 1200   | 1500      | 1800                       | 2270   | 1800   | 1678.33  |
| 35             | Ceiline air fan {dia 142cm (56in)}                                | °.<br>No       | 300    | 500    | 300       | 400                        | 350    | 300    | 358.33   |
| <u>چ</u>       |                                                                   | No.            | 3000   | 4000   | 3000      | 3700                       | 2800   | 2000   | 3083.33  |
| ·]             |                                                                   |                |        |        |           |                            |        |        |          |

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# Table 4.14Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1993

|         |                                      |                 |        | Pr     | oject Co           | <b>Project Code Number</b> | er     |           | Avg.   |
|---------|--------------------------------------|-----------------|--------|--------|--------------------|----------------------------|--------|-----------|--------|
| **      | Work Items                           | Cnit<br>Unit    | 93/2/1 | 93/2/2 | 93/2/3             | 93/2/4                     | 93/2/5 | 93/2/6    | Price  |
| :       |                                      | ł               |        |        | Items Prices in SR | ces in SR                  |        |           | (SR)   |
| -       | Excevation work                      | ۴               | 8      | 8      | 8                  | 10                         | 8      | 8         | 8.33   |
| ·   ~   |                                      | ٦               | 14     | 13     | 13                 | 15                         | 13     | 13        | 13.50  |
| 1 ~     |                                      | em <sup>3</sup> | 12     | 11     | 11                 | 20                         | 11     | 11        | 12.67  |
| , 4     |                                      | ĨE              | 276    | 269    | 269                | 350                        | 269    | 269       | 283.67 |
| ~       | -                                    | ٦<br>۳          | 656    | 638    | 638                | 750                        | 638    | 638       | 659.67 |
| » ا     |                                      | ۲<br>۳          | 40     | 39     | 39                 | 45                         | 39     | 39        | 40.17  |
| 2       | -                                    | r <sub>e</sub>  | 98     | 95     | 95                 | 90                         | 95     | 95        | 94.67  |
| ~<br> ~ | Concrete mavers (40x40x5cm)          | m²              | 46     | 34     | 46                 | 40                         | 45     | 45        | 42.67  |
| , o     | _                                    | 2<br>12<br>12   | 24     | 24     | 24                 | 26                         | 24     | 24        | 24.33  |
| ١       |                                      | Гщ.             | 897    | 874    | 874                | 800                        | 874    | 874       | 865.50 |
| : =     | 11 ICMU walls with 15 cm thickness   | m²              | 40     | 39     | 39                 | 45                         | 39     | 39        | 40.17  |
| 12      | CMU walls with 20 cm thickness       | m²              | 47     | 46     | 46                 | 48                         | 46     | 46        | 46.50  |
| 1       | Glazed mosaic tiles (size 30x30x3cm) | m²              | 43     | 41     | 41                 | 45                         | 41     | 41        | 42.00  |
| 7       | 14 Floor tiling                      | m²              | 30     | 29     | 29                 | 30                         | 29     | 29        | 29.33  |
| ۲<br>۲  | 15 Natural marble of stairs          | E               | 144    | 140    | 140                | 165                        | 140    | 140       | 144.83 |
| ŀ       |                                      |                 |        |        |                    |                            |        | Continued |        |

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|    |                                                                              |                |        | đ      | <b>Project Code Numbe</b> | de Numb   | er     |        | Avg.     |
|----|------------------------------------------------------------------------------|----------------|--------|--------|---------------------------|-----------|--------|--------|----------|
| #  | Work Items                                                                   | Unit           | 93/2/1 | 93/2/2 | 93/2/3                    | 93/2/4    | 93/2/5 | 93/2/6 | Price    |
|    |                                                                              |                |        |        | Items Prices in SR        | ces in SR |        |        | (SR)     |
| 91 | Plastic weather-resistant paints                                             | m²             | 18     | 81     | 18                        | 16        | 18     | 18     | 17.67    |
| 1  | 17  White glazed ceramic tiles                                               | m²             | 55     | 54     | 54                        | 50        | 54     | 54     | 53.50    |
| 18 | Insulator laver for moisture                                                 | m²             | 35     | 34     | 34                        | 45        | 34     | 34     | 36,00    |
| 19 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 36     | 35     | 35                        | 50        | 35     | 35     | 37.67    |
| 20 | Thermal insulation, vertical                                                 | m²             | 17     | 17     | 17                        | 35        | 17     | 17     | 20.00    |
| 5  |                                                                              | m²             | 16     | 16     | 16                        | 15        | 20     | 16     | 16.50    |
| 22 | Plastic paints for interior ceilings ( smooth Americ                         | m <sup>2</sup> | 21     | 20     | 20                        | 15        | 16     | 20     | 18.67    |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 437    | 426    | 426                       | 320       | 426    | 426    | 410.17   |
| 24 | Hollow metallic doors                                                        | m²             | 747    | 728    | 728                       | 850       | 728    | 728    | 751.50   |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 235    | 228    | 228                       | 170       | 228    | 228    | 219.50   |
| 26 | Fluorescent lighting fixture, (2x40 watt) with refle                         | No.            | 268    | 261    | 261                       | 250       | 261    | 261    | 260.33   |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1265   | 2408   | 1232                      | 2000      | 1232   | 1232   | 1561.50  |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 209    | 204    | 204                       | 250       | 204    | 204    | 212.50   |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 123    | 120    | 120                       | 120       | 120    | 120    | 120.50   |
| ŝ  |                                                                              | No.            | 43758  | 42616  | 42616                     | 50000     | 42616  | 42616  | 44037.00 |
| ٣  | Main distribution panelboard                                                 | No.            | 47150  | 45920  | 45920                     | 40000     | 45920  | 45920  | 45138.33 |
| 33 |                                                                              | u              | 161    | 157    | 157                       | 110       | 157    | 157    | 149.83   |
| ŝ  |                                                                              | E              | 197    | 192    | 192                       | 180       | 192    | 192    | 190.83   |
| 34 |                                                                              | No.            | 1955   | 1904   | 1904                      | 1450      | 1904   | 1904   | 1836.83  |
| 35 | Ceiling air fan {dia142cm (56in)}                                            | No.            | 402    | 392    | 392                       | 250       | 392    | 392    | 370.00   |
| %  | 36 Drinking water cooler (tank type)                                         | No.            | 2300   | 2240   | 2240                      | 2000      | 2240   | 2240   | 2210.00  |
| ]  |                                                                              |                |        |        |                           |           |        |        |          |

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### Table 4.15 The Prices of Puiss 6 4P 0

|          |                                                     |                |        | Pr     | oject Co  | <b>Project Code Number</b> | er<br>er |           | Avg.   |
|----------|-----------------------------------------------------|----------------|--------|--------|-----------|----------------------------|----------|-----------|--------|
| #        | Work Items                                          | Unit           | 93/3/1 | 93/3/2 | 93/3/3    | 93/3/4                     | 93/3/5   |           | Price  |
|          |                                                     |                |        |        | Items Pri | Items Prices in SR         |          |           | (SR)   |
| -        | Excavation work                                     | m <sup>3</sup> | 40     | *      | 18        | 100                        | •        |           | 52.67  |
| 2        | 2 Backfilling work                                  | m <sup>3</sup> | 20     | 40     | 17        | 40                         | 40       |           | 31.40  |
| m        | Excavation work for the foundation                  | m <sup>3</sup> | 40     | 50     | 13        | 50                         | 60       |           | 42.60  |
| 4        | 4 Plain concrete work under the foundation          | m <sup>3</sup> | 230    | 300    | 180       | 300                        | 300      |           | 262.00 |
| °^       | 5 Reinforced concrete work for the foundation       | m <sup>3</sup> | 750    | 850    | 740       | 850                        | 850      |           | 808.00 |
| Ľ        | 6 Natural crushed stone sub-base coarse             | m²             | 120    | 120    | 40        | 150                        | 120      |           | 110.00 |
| 5        | 7 Building made from Calcium Silicate Bricks        | m²             | 250    | 120    | 60        | 130                        | 120      |           | 136.00 |
| ∞        | Concrete pavers (40x40x5cm)                         | m <sup>2</sup> | 85     | 70     | 31        | 80                         | 70       |           | 67.20  |
| 9        |                                                     | m <sup>2</sup> | 23     | 25     | 17        | 25                         | 25       |           | 23.00  |
| 2        | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 800    | 900    | 790       | 950                        | 900      |           | 868.00 |
| Ξ        | CMU walls with 15 cm thickness                      | m²             | 42     | 40     | 33        | 45                         | 40       |           | 40.00  |
| 12       |                                                     | m²             | 44     | 45     | 34        | 50                         | 45       |           | 43.60  |
| <u>۳</u> | 13 Glazed mosaic tiles (size 30x30x3cm)             | m²             | 62     | 55     | 45        | 60                         | 55       |           | 55.40  |
| 4        | 14 Floor tiling                                     | m <sup>2</sup> | 40     | 45     | 28        | 45                         | 45       |           | 40.60  |
| 5        | 15 Natural marble of stairs                         | u              | 190    | 120    | 145       | 140                        | 120      |           | 143.00 |
| l        |                                                     |                |        |        |           |                            | Conti    | Continued |        |

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### **Table 4.15 continued**

| $\mu$ Work Items         Unit $93/3/1$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $93/3/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$ $23/5$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                              |                |        | Pr     | oject Co  | <b>Project Code Number</b> | er     | Avg.     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------|----------------|--------|--------|-----------|----------------------------|--------|----------|
| Plastic weather-resistant pairts         m <sup>2</sup> Zo         Zo <thzo< th="">         Zo         Zo</thzo<>                                                                                                                                                                                                                                                                          | #  | Work Items                                                                   | Unit           | 93/3/1 | 93/3/2 | 93/3/3    | 93/3/4                     | 93/3/5 | Price    |
| Plastic worther-resistant paints         m²         20         25         17         25         25         70           White glazed ceramic tiles         m²         60         70         73         70         75         70           Insulator layer for moisture         m²         60         70         73         50         45           Insulator layer for moisture         m²         27         45         30         50         45           Thermal insulation, vertical         m²         20         23         16         23         23           Plastic paints for interior valls (smooth American Texture)         m²         20         23         16         23         23           Plastic paints for interior valls (smooth American Texture)         m²         20         23         16         23         23           Aluminum windows         m²         20         23         16         23         23         450           Fluorescent lighting fixture, (154 watt), with plastic cover ceiling mounted         No.         300         300         300         300         300         300         300         300         300         300         300         300         300         300         300 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Items Pri</td><td>ces in SR</td><td></td><td>(SR)</td></td<>                                                                                       |    |                                                                              |                |        |        | Items Pri | ces in SR                  |        | (SR)     |
| Wille glazed ceramic tiles $m^2$ 60         70         75         70         70           Insulator layer for moisture         mil         43         50         51         55         50         45           Thermal insulation, horizontal         m <sup>2</sup> 23         40         20         45         23         45           Thermal insulation, vertical         m <sup>2</sup> 20         23         16         23         23         45         45         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450         450                                                                                                                                                                                                                                                                 | 16 | Plastic weather-resistant paints                                             | m <sup>2</sup> | 20     | 25     | 17        | 25                         | 25     | 22.40    |
| Insulator layer for moisture         m²         43         50         51         55         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         50         45         53         50         45         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53         53                                                                                                                                                                                                                                                                                             |    | White glazed ceramic tiles                                                   | m <sup>2</sup> | 60     | 70     | 70        | 75                         | 70     | 69.00    |
| Thermal insultation, horizontal         m²         27         45         30         50         45         45           Thermal insultation, vertical         Thermal insultation, vertical         m²         25         40         20         40         40         40           Plastic paints for interior walls (smooth American Texture)         m²         20         23         16         25         23         23           Plastic paints for interior cellings (smooth American Texture)         m²         20         23         16         25         23         23           Alumium windows         m²         20         430         450         550         450         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700 </td <td>18</td> <td>Insulator layer for moisture</td> <td>m<sup>2</sup></td> <td>43</td> <td>50</td> <td>51</td> <td>55</td> <td>50</td> <td>49.80</td>                                                     | 18 | Insulator layer for moisture                                                 | m <sup>2</sup> | 43     | 50     | 51        | 55                         | 50     | 49.80    |
| $\begin{tabular}{lllllllllllllllllllllllllllllllllll$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | Thermal insulation, horizontal                                               | m <sup>2</sup> | 27     | 45     | 30        | 50                         | 45     | 39.40    |
| Plastic paints for interior walls (smooth American Texture) $m^2$ $20$ $23$ $16$ $25$ $23$ $23$ Plastic paints for interior ceilings (smooth American Texture) $m^2$ $20$ $23$ $16$ $25$ $23$ $23$ Aluminum windows $m^2$ $600$ $450$ $500$ $550$ $450$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    | Thermal insulation, vertical                                                 | m <sup>2</sup> | 25     | 40     | 20        | 40                         | 40     | 33.00    |
| Plastic paints for interior ceilings (smooth American Texture) $m^2$ $20$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $23$ $450$ $550$ $550$ $550$ $450$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$ $700$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                              | m <sup>2</sup> | 20     | 23     | 16        | 25                         | 23     | 21.40    |
| Aluminum windowsm²600450500550450450Hollow metallic doorsHollow metallic doorsm²9507001150700700Holrorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.380420287420420430Fluorescent lighting fixture, (2x40 watt) with reflectorNo.500430320430430430Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.500430300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 20     | 23 .   | 16        | 25                         | 23     | 21.40    |
| Hollow metallic doors $m^2$ 9507001150700700700Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.38042028742042020Fluorescent lighting fixture, (2x40 watt) with reflectorNo.360430320430300300300Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.500430300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300300 <td< td=""><td>23</td><td>Aluminum windows</td><td>m²</td><td>600</td><td>450</td><td>500</td><td>550</td><td>450</td><td>510,00</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 23 | Aluminum windows                                                             | m²             | 600    | 450    | 500       | 550                        | 450    | 510,00   |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo. $380$ $420$ $420$ $420$ $420$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $500$ $430$ $320$ $430$ $430$ $430$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)No. $500$ $430$ $1500$ $1500$ $1500$ $1600$ $1500$ Switch, A/C. window type (2x30 Amps)Switch, A/C. window type (2x30 Amps)No. $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $3$                                                                                                                                                                                                                                                                                                                                                                                                                            |    | Hollow metallic doors                                                        | m <sup>2</sup> | 950    | 700    | 1150      | 700                        | 700    | 840.00   |
| Fluorescent lighting fixture, (2x40 watt) with reflectorNo.500430430430430430Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.155015001500150015001500Switch, A/C. window type (2x30 Amps)No.No.30030020030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 380    | 420    | 287       | 420                        | 420    | 385.40   |
| Lamp-post for the site (4m high with 125 wat/220 volt lamp)No.155015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500150015001500 <th< td=""><td>26</td><td>Fluorescent lighting fixture, (2x40 watt) with reflector</td><td>No.</td><td>500</td><td>430</td><td>320</td><td>430</td><td>430</td><td>422.00</td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 500    | 430    | 320       | 430                        | 430    | 422.00   |
| Switch, A/C. window type $(2x30 \text{ Amps})$ Switch, A/C. window type $(2x30 \text{ Amps})$ No. $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $300$ $3600$ $3600$ $5600$ $5600$ $5600$ $5600$ $5600$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $56000$ $5000$ $5000$ <td>27</td> <td></td> <td>No.</td> <td>1550</td> <td>1500</td> <td>1000</td> <td>1500</td> <td>1500</td> <td>1410.00</td>                                                                                                                                                                                                                                                              | 27 |                                                                              | No.            | 1550   | 1500   | 1000      | 1500                       | 1500   | 1410.00  |
| Lighting switch (15 Amps/127 volt)Lighting switch (15 Amps/127 volt)Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60Z60 <th< td=""><td>28</td><td>Switch, A/C. window type (2x30 Amps)</td><td>No.</td><td>300</td><td>300</td><td>200</td><td>300</td><td>300</td><td>280.00</td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 300    | 300    | 200       | 300                        | 300    | 280.00   |
| Main switchboard, school buildingMo. $38000$ $45000$ $55000$ $55000$ $55000$ $55000$ $55000$ $55000$ $55000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $5000$ $150$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $100$ $1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 250    | 260    | 150       | 260                        | 260    | 236.00   |
| Main distribution panelboardMo.48000500006500060006000Thermoplastic cable (size $3x185x95 \text{ mm}^2$ )Thermoplastic cable (size $3x240x120\text{ mm}^2$ )m180150150150150Reinforced thermoplastic cable (size $30x240x120\text{ mm}^2$ )m $250$ $220$ $220$ $220$ 220190A/C unit windows type (cool/heat 1800 BUT/h,KW)No.190019001600200019001900Celling air fan dia {142cm (56in)}No.40045040045045025002500Drinking water cooler (tank type)No.No.25002000200025002500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30 | Main switchboard, school building                                            | No.            | 38000  | 45000  | 34500     | 55000                      | 55000  | 45500.00 |
| Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )         m         180         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         220         220         220         220         220         220         220         200         1900         1600         1600         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900 <th< td=""><td>31</td><td>Main distribution panelboard</td><td>No.</td><td>48000</td><td>50000</td><td>48300</td><td>65000</td><td>60000</td><td>54260.00</td></th<>                                       | 31 | Main distribution panelboard                                                 | No.            | 48000  | 50000  | 48300     | 65000                      | 60000  | 54260.00 |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         250         220         220         220           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         1900         1900         2000         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1900         1500         1500         2500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500         1500 </td <td>32</td> <td>Thermoplastic cable (size 3x185x95 mm<sup>2</sup>)</td> <td>m</td> <td>180</td> <td>150</td> <td>190</td> <td>150</td> <td>150</td> <td>164.00</td> | 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | m              | 180    | 150    | 190       | 150                        | 150    | 164.00   |
| A/C unit windows type (cool/heat 1800 BUT/h,KW) No. 1900 1900 1900 2000 1900 1900 Ceiling air fan dia {142cm (56in)} No. 400 450 450 450 450 450 Drinking water cooler (tank type) 2500 No. 2500 2000 2000 2500 2500 2500 2500 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 33 | Reinforced thermoplastic cable (size $30x240x120mm^2$ )                      | m              | 250    | 220    | 220       | 220                        | 220    | 226.00   |
| Ceiling air fan dia (142cm (56in))         No.         400         450         450         450           Drinking water cooler (tank type)         No.         2500         2000         2500         2500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 1900   | 1900   | 1600      | 2000                       | 1900   | 1860.00  |
| No. 2500 2000 2200 2500 2500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35 | Ceiling air fan dia {142cm (56in)}                                           | No.            | 400    | 450    | 400       | 450                        | 450    | 430.00   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36 | Drinking water cooler (tank type)                                            | No.            | 2500   | 2000   | 2200      | 2000                       | 2500   | 2240.00  |

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### Table 4.16 Calculation of the Prices of Price Index Items Educational Area - Riyadh Year 1994

|            |                                                     |                |        | Ъ      | oject Co  | <b>Project Code Number</b> | er     |           | Avg.   |
|------------|-----------------------------------------------------|----------------|--------|--------|-----------|----------------------------|--------|-----------|--------|
| *          | Work Items                                          | Unit           | 94/1/1 | 94/1/2 | 94/1/3    | 94/1/4                     | 94/1/5 | 94/1/6    | Price  |
|            |                                                     | I              |        |        | Items Pri | ltems Prices in SR         |        |           | (SR)   |
| -          | Excavation work                                     | ٣E             | 50     | 25     | 25        | 30                         | 3      | 20        | 25.50  |
| 1~         | 2  Backfilling work                                 | ٦E             | 25     | 22     | 25        | 30                         | 12     | 10        | 20.67  |
| 5          | Excavation work for the foundation                  | em3            | 60     | 50     | 40        | 30                         | 18     | 60        | 43.00  |
| 4          | 4 Plain concrete work under the foundation          | en.            | 250    | 250    | 200       | 250                        | 230    | 225       | 234.17 |
| <b> </b> ^ | 5 Reinforced concrete work for the foundation       | m <sup>3</sup> | 735    | 730    | 750       | 850                        | 300    | 665       | 671.67 |
| 9          | Natural crushed stone sub-base coarse               | m²             | 80     | 80     | 30        | 100                        | 200    | 45        | 89.17  |
| 5          | Building made from Calcium Silicate Bricks          | m²             | 120    | 120    | 80        | 100                        | 50     | 180       | 108.33 |
| ∞          |                                                     | m²             | 50     | 50     | 40        | 40                         | 25     | 25        | 38.33  |
| 0          | -                                                   | m²             | 24     | 25     | 20        | 40                         | 95     | 25        | 38,17  |
| <u> </u> 2 | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 750    | 750    | 750       | 800                        | 1200   | 700       | 825.00 |
| =          | 11 CMU walls with 15 cm thickness                   | m²             | 40     | 40     | 50        | 40                         | 50     | 40        | 43.33  |
| 12         | 12 ICMU walls with 20 cm thickness                  | m²             | 45     | 45     | 50        | 60                         | 50     | 45        | 49.17  |
| <b> </b> ≘ | 13 [Glazed mosaic tiles (size 30x30x3cm)            | m²             | 44     | 44     | 40        | 50                         | 65     | 50        | 48.83  |
| 4          | 14 Floor tiling                                     | m <sup>2</sup> | 35     | 36     | 30        | 40                         | 25     | 35        | 33.50  |
| 15         | 15 Natural marble of stairs                         | ε              | 200    | 200    | 180       | 100                        | 225    | 190       | 182.50 |
|            |                                                     |                |        |        |           |                            |        | Continued |        |

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| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| ne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>=</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| - 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| tim                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| - 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| CON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|      |                                                                              |                |        | Ē      | <b>Project Code Number</b> | de Numb            | er     |        | Avg.     |
|------|------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|--------|----------|
| #    | Work Items                                                                   | Unit           | 94/1/1 | 94/1/2 | 94/1/3                     | 94/1/4             | 94/1/5 | 94/1/6 | Price    |
|      |                                                                              |                |        |        | Items Pri                  | Items Prices in SR |        |        | (SR)     |
| 16   | Plastic weather-resistant paints                                             | m <sup>2</sup> | 20     | 20     | 18                         | 10                 | 10     | 40     | 19.67    |
| 5    | 17 White glazed ceramic tiles                                                | m²             | 65     | 65     | 70                         | 75                 | 65     | 85     | 70.83    |
| 18   | Insulator layer for moisture                                                 | m <sup>2</sup> | 35     | 35     | 60                         | 50                 | 80     | 30     | 48.33    |
| 19   |                                                                              | m <sup>2</sup> | 30     | 30     | 40                         | 40                 | 80     | 35     | 42.50    |
| 20   |                                                                              | m <sup>2</sup> | 22     | 22     | 18                         | 40                 | 20     | 35     | 26.17    |
| 21   | Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 22     | 22     | 18                         | 20                 | 10     | 25     | 19.50    |
| 22   | Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 20     | 20     | 18                         | 20                 | 25     | 30     | 22.17    |
| 23   | Aluminum windows                                                             | m²             | 480    | 480    | 450                        | 400                | 400    | 675    | 480.83   |
| 24   | Hollow metallic doors                                                        | m²             | 1000   | 1000   | 906                        | 700                | 650    | 700    | 825.00   |
| 25   | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 260    | 250    | 300                        | 270                | 300    | 255    | 272.50   |
| 26   | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 400    | 320    | 300                        | 300                | 400    | 332    | 342.00   |
| 27 ] | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1700   | 1650   | 1000                       | 1500               | 1900   | 1650   | 1566.67  |
| 28   | Switch, A/C. window type (2x30 Amps)                                         | No.            | 250    | 240    | 300                        | 300                | 500    | 195    | 297.50   |
| 29   | Lighting switch (15 Amps/127 volt)                                           | No.            | 250    | 250    | 300                        | 275                | 250    | 170    | 249.17   |
| 30   | Main switchboard, school building                                            | No.            | 38000  | 38000  | 40000                      | 25000              | 40000  | 45600  | 37766.67 |
| 31   | 31 Main distribution panelboard                                              | No.            | 45000  | 45000  | 45000                      | 35000              | 60000  | 47400  | 46233.33 |
| 32   | Thermoplastic cable (size 3x185x95 mm²)                                      | m              | 125    | 120    | 140                        | 70                 | 100    | 168    | 120.50   |
| 33   | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | m              | 225    | 220    | . 190                      | 125                | 150    | 203    | 185.50   |
| 34   | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 1600   | 1600   | 2000                       | 2000               | 1900   | 2400   | 1916.67  |
| 35   | 35  Ceiling air fan {dia 142cm (56in)}                                       | No.            | 360    | 360    | 400                        | 500                | 600    | 650    | 478.33   |
| 36   | 36 Drinking water cooler (tank type)                                         | No.            | 2300   | 2300   | 2200                       | 2000               | 3500   | 2600   | 2483.33  |

# Table 4.17Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1994

|             |                                             |                 |        | Pro    | ject Cot           | Project Code Number |           | Avg.   |   |
|-------------|---------------------------------------------|-----------------|--------|--------|--------------------|---------------------|-----------|--------|---|
| #           | Work Items                                  | Unit            | 94/2/1 | 94/2/2 |                    |                     |           | Price  |   |
| :           |                                             |                 |        |        | Items Prices in SR | ces in SR           |           | (SR)   |   |
| -           | Excevation work                             | ۶.<br>۳         | 40     | 10     |                    |                     |           | 25.00  |   |
| ·   ~       |                                             | ۳3              | 13     | 38     |                    |                     |           | 25.50  | , |
| "           | _                                           | em <sup>3</sup> | 16     | 70     |                    |                     |           | 43.00  |   |
|             | Plain concrete work under the foundation    | em <sup>3</sup> | 300    | 320    |                    |                     |           | 310.00 |   |
| · V         | Reinforced concrete work for the foundation | em <sup>3</sup> | 670    | 700    |                    |                     |           | 685.00 |   |
| 6           | Natural crushed stone sub-base coarse       | m²              | 59     | 100    |                    |                     |           | 79.50  |   |
| -           | Building made from Calcium Silicate Bricks  | m <sup>2</sup>  | 90     | 220    | -                  |                     | -         | 155.00 |   |
| .   ∝       |                                             | m <sup>2</sup>  | 51     | 68     |                    |                     |           | 59.50  |   |
| 0           |                                             | m²              | 30     | 32     |                    |                     |           | 31.00  |   |
| ۹<br>۱۹     |                                             | m <sup>3</sup>  | 874    | 830    |                    |                     |           | 852.00 |   |
| =           | 11 CMU walls with 15 cm thickness           | m²              | 39     | 46     |                    |                     |           | 42.50  |   |
| 12          | 12 ICMU walls with 20 cm thickness          | m <sup>2</sup>  | 46     | 50     |                    |                     |           | 48.00  |   |
| <u>۳</u>    | 13 [Glazed mosaic tiles (size 30x30x3cm)    | m <sup>2</sup>  | 41     | 60     |                    |                     |           | 50.50  |   |
| 2           | 14 Floor tiling                             | m²              | 29     | 44     |                    |                     |           | 36.50  |   |
| :  <u>~</u> | 15 Natural marble of stairs                 | ٤               | 150    | 230    |                    |                     |           | 190.00 |   |
|             |                                             |                 |        |        |                    |                     | Continued |        |   |

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### Table 4.17 continued

|    |                                                                              |                 |        | 9      | <b>Project Code Number</b> | de Numt                   | ber | Avg.     |   |
|----|------------------------------------------------------------------------------|-----------------|--------|--------|----------------------------|---------------------------|-----|----------|---|
| #  | Work Items                                                                   | Unit            | 94/2/1 | 94/2/2 |                            |                           |     | Price    |   |
|    |                                                                              |                 |        |        | Items Pr                   | <b>Items Prices in SR</b> |     | (SR)     |   |
| 16 | 16 Plastic weather-resistant paints                                          | m <sup>2</sup>  | 19     | 20     |                            |                           |     | 19.50    |   |
| 1  | 17 White glazed ceramic tiles                                                | m <sup>2</sup>  | 54     | 75     |                            |                           |     | 64.50    |   |
| 2  | 18 Insulator layer for moisture                                              | _m <sup>2</sup> | 34     | 52     |                            |                           |     | 43.00    |   |
| 61 | Thermal insulation, horizontal                                               | m²              | 35     | 29     |                            |                           |     | 32.00    |   |
| 2  | Thermal insulation, vertical                                                 | m²              | 35     | 25     |                            |                           |     | 30.00    |   |
| 21 | Plastic paints for interior walls ( smooth American Texture )                | m²              | 20     | 91     |                            |                           |     | 18.00    |   |
| 22 | 22 Plastic paints for interior ceilings ( smooth American Texture )          | m <sup>2</sup>  | 22     | 16     |                            |                           |     | 19.00    |   |
| 23 | Aluminum windows                                                             | m <sup>2</sup>  | 426    | 380    |                            |                           |     | 403.00   |   |
| 24 | Hollow metallic doors                                                        | m²              | 728    | 1560   |                            |                           |     | 1144.00  |   |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.             | 228    | 250    |                            |                           |     | 239.00   |   |
| 26 | Fluorescent lighting fixture, (2x40 watt) with refle                         | No.             | 261    | 310    |                            |                           |     | 285.50   |   |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.             | 1532   | 1820   |                            |                           |     | 1676.00  |   |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.             | 204    | 250    |                            |                           |     | 227.00   |   |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.             | 120    | 200    |                            |                           |     | 160.00   |   |
| 30 | Main switchboard, school building                                            | No.             | 42896  | 32000  |                            |                           |     | 37448.00 |   |
| 31 | Main distribution panelboard                                                 | No.             | 46480  | 32000  |                            |                           |     | 39240.00 |   |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | ٤               | 179    | 160    |                            |                           |     | 169.50   |   |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | ٤               | 192    | 250    |                            |                           |     | 221.00   |   |
| 34 | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                           | No.             | 1904   | 1900   |                            |                           |     | 1902.00  |   |
| 35 | Ceiling air fan {dia142cm (56in)}                                            | No.             | 392    | 330    |                            |                           |     | 361,00   |   |
| 36 | 36 Drinking water cooler (tank type)                                         | No.             | 1792   | 2600   |                            |                           |     | 2196.00  |   |
|    |                                                                              |                 |        |        |                            |                           |     |          | I |

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# Table 4.18Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1994

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|             |                                        |                |        | P      | oject Co  | Project Code Number       | ər     |           | Avg.    |
|-------------|----------------------------------------|----------------|--------|--------|-----------|---------------------------|--------|-----------|---------|
| 7#          | Work Items                             | Unit           | 94/3/1 | 94/3/2 | 94/3/3    | 94/3/4                    |        |           | Price   |
| :           |                                        | <b>I</b>       |        |        | Items Pri | <b>Items Prices in SR</b> |        |           | (SR)    |
| -           | Excavation work                        | сп<br>Ш        | 50     | *      | 32        | 32                        |        | с<br>Г    | 8.00    |
| ٠ŀ          |                                        | m <sup>3</sup> | 25     | 20     | 26        | 26                        |        | 7         | 4.25    |
| 4 ~         |                                        | re<br>E        | 20     | 39     | 32        | 32                        |        | 4         | 43.25   |
| ·\ ₹        | _                                      | Ē              | 270    | 390    | 390       | 390                       |        | ĕ         | 60,00   |
| ۲<br>۲      | _                                      | Ē              | 900    | 1072   | 1072      | 1072                      |        | 2         | 29.00   |
| <u>ی</u>    | _                                      | m²             | 70     | 58     | 65        | 52                        |        | -         | 61.25   |
| 1           | _                                      | m²             | 85     | 61     | 78        | 55                        |        | 9         | 9.75    |
| ~           | _                                      | m²             | 60     | 16     | 78        | 78                        |        |           | 76.75   |
| 0           |                                        | m²             | 25     | 39     | 39        | 39                        |        | 3         | 35.50   |
| ١e          |                                        | Ē              | 850    | 1072   | 1040      | 1072                      |        | 10        | 1008.50 |
| ¥=          | 11 CMU walls with 15 cm thickness      | m²             | 56     | 85     | 78        | 78                        |        | -         | 74.25   |
| : 2         | 12 ICMU walls with 20 cm thickness     | m <sup>2</sup> | 55     | 65     | 84        | 84                        |        |           | 72.00   |
| <u>ין י</u> | 13 (Glazed mosaic tiles (size 30x30x1) | 1m²            | 48     | 58     | 65        | 52                        |        |           | 55.75   |
| 2           | 14 Floor tiling                        | m²             | 35     | 39     | 52        | 93                        |        | ~         | 54.75   |
| : °         | 15 Natural marble of stairs            | Ħ              | 180    | 156    | 156       | 130                       |        | -         | 155.50  |
| <u>'</u>    |                                        |                |        |        |           |                           | Contin | Continued |         |

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|             |                                                                                 |                |        | Pr     | oject Coo          | <b>Project Code Number</b> |   | Avg.     |
|-------------|---------------------------------------------------------------------------------|----------------|--------|--------|--------------------|----------------------------|---|----------|
| #           | Work Items                                                                      | Unit           | 94/3/1 | 94/3/2 | 94/3/3             | 94/3/4                     |   | Price    |
| :           |                                                                                 |                |        |        | Items Prices in SR | ces in SR                  |   | (SR)     |
| 9           | 16   Plastic weather-resistant paints                                           | m²             | 25     | 32     | 32                 | 32                         |   | 30.25    |
| 1           | 17 White glazed ceramic tiles                                                   | m²             | 50     | 78     | 78                 | 78                         |   | 71.00    |
| ≃           | 18 Insulator laver for moisture                                                 | m²             | 50     | 26     | 39                 | 39                         |   | 38.50    |
| :  <b>≏</b> | 19 Thermal insulation. horizontal                                               | m²             | 30     | 26     | 26                 | 26                         |   | 27.00    |
| 2           | 20 Thermal insulation. vertical                                                 | m²             | 25     | 26     | 19                 | 19                         |   | 22.25    |
| 7           | 21 Plastic paints for interior walls ( smooth American Texture )                | m <sup>2</sup> | 25     | 33     | 32                 | 32                         |   | 30.50    |
| 32          |                                                                                 | m <sup>2</sup> | 27     | 33     | 32                 | 32                         | _ | 31.00    |
| 3           | 23 Aluminum windows                                                             | m²             | 450    | 585    | 520                | 520                        |   | 518.75   |
| 7           | 24 Hollow metallic doors                                                        | m <sup>2</sup> | 800    | 845    | 780                | 780                        |   | 801.25   |
| 52          | 25 Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 220    | 400    | 403                | 403                        |   | 356.50   |
| 82          | 26 Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.            | 260    | 429    | 390                | 390                        |   | 367.25   |
| 5           | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1500   | 3250   | 1700               | 3250                       |   | 2425.00  |
| 28          | Switch, A/C. window type (2x30 Amps)                                            | No.            | 250    | 247    | 240                | 195                        |   | 233.00   |
| 53          | 29 Lighting switch (15 Annps/127 volt)                                          | No.            | 170    | 182    | 175                | 156                        |   | 170.75   |
| 8           | 30 Main switchboard, school building                                            | No.            | 25000  | 38000  | 39000              | 39000                      |   | 35250.00 |
| 3           | 31 Main distribution panelboard                                                 | No.            | 27000  | 39000  | 45500              | 45500                      |   | 39250.00 |
| 32          | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | ш              | 150    | 152    | 143                | 169                        |   | 153.50   |
| 33          |                                                                                 | æ              | 220    | 220    | 182                | 208                        |   | 207.50   |
| 34          | A/C unit windows type (cool/heat 1800 BUT/h,KW)                                 | No.            | 3500   | 2340   | 2340               | 2340                       |   | 2630.00  |
| 35          | Ceiling air fan dia {142cm (56in)}                                              | No.            | 500    | 325    | 520                | 325                        |   | 417.50   |
| 36          | 36 Drinking water cooler (tank type)                                            | No.            | 2400   | 2470   | 2405               | 2470                       |   | 2436.25  |
|             |                                                                                 |                |        |        |                    |                            |   |          |

### Table 4.19 Calculation of the Prices of Price Index Items Educational Area - Riyadh Year 1995

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|          |                                                     |                 |        | P      | oject Coc  | Project Code Number | er        | Ave.   |
|----------|-----------------------------------------------------|-----------------|--------|--------|------------|---------------------|-----------|--------|
| 7#       | Work Items                                          | Unit            | 95/1/1 | 95/1/2 | 95/1/3     |                     |           | Price  |
| :        |                                                     | I               |        |        | Items Pri- | ltems Prices in SR  |           | (SR)   |
| -        | Excavation work                                     | ۴               | 43     | 43     | 43         |                     |           | 43.00  |
| · ~      |                                                     | en.             | 19     | 19     | 19         |                     |           | 19.00  |
| 1 ~      |                                                     | °m              | 25     | 25     | 25         |                     |           | 25.00  |
| 4        | -                                                   | т <sup>з</sup>  | 165    | 165    | 165        |                     |           | 165.00 |
| ~        |                                                     | em <sup>3</sup> | 610    | 610    | 610        |                     |           | 610.00 |
| 0        |                                                     | m²              | 200    | 200    | 200        |                     |           | 200.00 |
| 7        | Building made from Calcium Silicate Bricks          | m²              | 300    | 300    | 300        |                     |           | 300.00 |
| ∞        |                                                     | m²              | 10     | 10     | 10         |                     |           | 10.00  |
| <u>م</u> | -                                                   | m <sup>2</sup>  | 100    | 100    | 100        |                     |           | 100.00 |
| 2        | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 720    | 720    | 720        |                     |           | 720.00 |
| =        | 11 CMU walls with 15 cm thickness                   | m²              | 65     | 65     | 65         |                     |           | 65.00  |
| 12       | 12 CMU walls with 20 cm thickness                   | m²              | 65     | 65     | 65         |                     |           | 65.00  |
| <u></u>  | 13 [Glazed mosaic tiles (size 30x30x3cm)            | m <sup>2</sup>  | 45     | 45     | 45         |                     |           | 45.00  |
| 1        | 14 Floor tiling                                     | m²              | 30     | 30     | 30         |                     |           | 30,00  |
| ľ        | 15 Natural marble of stairs                         | E               | 175    | 175    | 175        |                     |           | 175.00 |
|          |                                                     |                 |        |        |            |                     | Continued | sd     |

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### **Table 4.19 continued**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|----------------|--------|--------|-------------|----------------------------|-----------|
| m²         17         17         17         17         17           m²         35         35         35         35         35           m²         35         35         35         35         35           m²         35         35         35         35         35           m²         m²         36         50         50         50         50           m³         m²         12         12         12         12         12         12           nooth American Texture)         m²         13         13         13         13         13         13           nooth American Texture)         m²         700         700         700         700         700         10         10         10           ut) with plastic cover celling mounted         No.         200         200         200         200         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12         12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | #        | Work Items                                                                   | Unit           | 95/1/1 | 95/1/2 | 95/1/3      |                            | Price     |
| m²         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         17         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :        |                                                                              |                |        |        | Items Price | ces in SR                  | (SR)      |
| $\begin{array}{l l l l l l l l l l l l l l l l l l l $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>۲</u> | Discie weather-resistant naints                                              | m²             | 17     | 17     | 17          |                            | <br>17,00 |
| m <sup>2</sup> 75         75         75         75         76         76         76           m <sup>2</sup> 50         50         50         50         50         50         50           oth American Texture)         m <sup>2</sup> 12         12         12         12         12           mooth American Texture)         m <sup>2</sup> 700         700         700         700         700           mooth American Texture)         m <sup>2</sup> 700         700         700         700         700           tti), with plastic cover celling mounted         m <sup>2</sup> 700         700         700         700         700           att) with reflector         m <sup>2</sup> 700         270         270         270         700         700           att) with reflector         No.         270         270         270         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2        | White plazed ceramic tiles                                                   | m²             | 35     | 35     | 35          |                            | 35.00     |
| m <sup>2</sup> 50         50         50         50         50         50         50         50           oth American Texture)         m <sup>2</sup> 12         12         12         12         12           nooth American Texture)         m <sup>2</sup> 13         13         13         13         13           nooth American Texture)         m <sup>2</sup> 700         700         700         700         700           noth American Texture)         m <sup>2</sup> 700         700         700         700         700           noth American Texture)         m <sup>2</sup> 700         700         700         700         700           noth American Texture)         m <sup>2</sup> 700         700         700         700         700           noth American Texture)         n <sup>2</sup> 700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ≓        |                                                                              | m²             | 75     | 75     | 75          |                            | 75.00     |
| mt         m2         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         40         70         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2<br>  2 | Thermal insulation. horizontal                                               | m²             | 50     | 50     | 50          |                            | 50.00     |
| oth American Texture) $m^2$ 12         12         12         12         12         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13 <th13< th="">         14         1</th13<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ŝ        | Thermal insulation, vertical                                                 | m²             | 40     | 40     | 40          |                            | 40.00     |
| mooth American Texture) $m^2$ 13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13         13 </td <td>1</td> <td></td> <td>m<sup>2</sup></td> <td>12</td> <td>12</td> <td>12</td> <td></td> <td>12.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        |                                                                              | m <sup>2</sup> | 12     | 12     | 12          |                            | 12.00     |
| m <sup>2</sup> 700         700         700         700         700 $m^2$ att) with reflector         m <sup>2</sup> 700         700         700 $m^2$ $m^2$ att) with reflector         No.         270         270         270 $m^2$ $m^2$ $125$ with reflector         No.         270         270         270 $m^2$ $m^2$ $125$ with reflector         No.         910         910         910 $m^2$ $m^2$ $125$ with reflector         No.         300         300         300 $m^2$ $m^2$ $125$ with reflector         No.         150         150 $m^2$ $m^2$ $105$ No.         150         150 $m^2$ $m^2$ $100^2$ $100^2$ $100^2$ $100^2$ $m^2$ $m^2$ $100^2$ $100^2$ $100^2$ $100^2$ $m^2$ $m^2$ $100^2$ $100^2$ $100^2$ $100^2$ $m^2$ $m^2$ $100^2$ $100^2$ $100^2$ $10^2$ $m^2$ <td>: 2</td> <td>Plastic paints for interior ceilines (smooth American Texture)</td> <td>m²</td> <td>13</td> <td>13</td> <td>13</td> <td></td> <td>13.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | : 2      | Plastic paints for interior ceilines (smooth American Texture)               | m²             | 13     | 13     | 13          |                            | 13.00     |
| m²         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         200         200         200         200         200         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700         700 <td>ı<br/>۲</td> <td>Aluminum windows</td> <td>m²</td> <td>700</td> <td>700</td> <td>700</td> <td></td> <td>700.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ı<br>۲   | Aluminum windows                                                             | m²             | 700    | 700    | 700         |                            | 700.00    |
| ttt), with plastic cover ceiling mounted       No.       200       200       200       200       90         ratt) with reflector       No.       270       270       270       910       910         ratt) with reflector       No.       270       270       270       910       910         ratt       No.       300       300       300       300       900       900         rps)       No.       150       150       150       0       900       9000       900         rmd       No.       150       150       150       150       150       160       160         rmd       No.       45000       50000       50000       900       900       160       160         rmd       No.       80       80       80       80       80       160       160         rmd       110       110       110       110       110       160       160       160         rmd       1300       1300       1300       1300       1300       160       160       160       160       160       160       160       160       160       160       160       160       160 <td< td=""><td>22</td><td>Hollow metallic doors</td><td>2<br/>M</td><td>700</td><td>700</td><td>200</td><td></td><td>700.00</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22       | Hollow metallic doors                                                        | 2<br>M         | 700    | 700    | 200         |                            | 700.00    |
| att) with reflector       No.       270       270       270       270       270 $125$ wait/220 volt lamp)       No.       910       910       910       910       910 $125$ wait/220 volt lamp)       No.       300       300       300       900       910       910 $125$ wait/220 volt lamp)       No.       300       300       300       900       900       900       900 $105$ 150       150       150       150       160       90       90       90       90 $100$ $100$ 50000       50000       50000       50000       90       90       90       90 $100^{2}$ $150$ $150$ $150$ $160$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $100^{2}$ $100$ $110$ $110$ $110$ $110$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ $90$ <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ۲<br>۲   | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 200    | 200    | 200         |                            | 200.00    |
| 125 wait/220 volt lamp)       No.       910       910       910       910       910 $nps$ No.       300       300       300       300       90       90       90 $nps$ No.       150       150       150       160       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       9000       900       9000       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900       900 <t< td=""><td>8</td><td>Fluorescent lighting fixture. (2x40 watt) with reflector</td><td>No.</td><td>270</td><td>270</td><td>270</td><td></td><td>270.00</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 8        | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.            | 270    | 270    | 270         |                            | 270.00    |
| $\frac{\text{Jps}}{(120)} = \frac{\text{Jps}}{(120)} = \frac{\text{Jps}}{(120)} = \frac{300}{150} = \frac{3000}{1500} = \frac{30000}{1500} = \frac{300000}{1500} = \frac{300000}{1500} = \frac{30000}{1500} = \frac{30000}{1500} = 30$ | 5        |                                                                              | No.            | 910    | 910    | 910         |                            | 910.00    |
| No.         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150 <td>ň</td> <td></td> <td>No.</td> <td>300</td> <td>300</td> <td>300</td> <td></td> <td>300.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ň        |                                                                              | No.            | 300    | 300    | 300         |                            | 300.00    |
| No.     50000     50000     50000     50000     50000     50000     50000       nm <sup>2</sup> )     No.     45000     45000     45000     45000     60     90       30x240x120mm <sup>2</sup> )     m     110     110     110     110     100       30x240x120mm <sup>2</sup> )     m     1300     1300     1300     1300       00 BUT/h,KW)     No.     400     400     400       No.     1400     1400     1400     1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ŝ        | Lighting switch (15 Amps/127 volt)                                           | No.            | 150    | 150    | 150         |                            | 150.00    |
| Main distribution panelboard         Moin distribution panelboard         No.         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         45000         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400         400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | i e      | Main switchboard, school building                                            | No.            | 50000  | 50000  | 50000       |                            | 50000.00  |
| Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )         m         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80         80 <td>~</td> <td>Main distribution panelboard</td> <td>No.</td> <td>45000</td> <td>45000</td> <td>45000</td> <td></td> <td>45000.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ~        | Main distribution panelboard                                                 | No.            | 45000  | 45000  | 45000       |                            | 45000.00  |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         110         110         110         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <th100< th="">         100         100</th100<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | : 2      | Thermoolastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 80     | 80     | 80          |                            | 80.00     |
| A/C unit windows type (cool/neat 1800 BUT/h,KW)         No.         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         1300         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 </td <td><u>چ</u></td> <td>10x120</td> <td>E</td> <td>110</td> <td>110</td> <td>110</td> <td></td> <td>110.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>چ</u> | 10x120                                                                       | E              | 110    | 110    | 110         |                            | 110.00    |
| Ceiling air fan {dia 142cm (56in)}         No.         400         400         400         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ~        | A/C unit windows type (cool/heat 1800 BUT/h.K)                               | No.            | 1300   | 1300   | 1300        |                            | 1300.00   |
| Drinking water cooler (tank type) 1400 1400 1400 1400 1400 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35       | Ceiling air fàn {dia 142cm (56in)}                                           | No.            | 400    | 400    | 400         |                            | 400.00    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36       | Drinking water cooler (tank type)                                            | No.            | 1400   | 1400   | 1400        |                            | 1400.00   |

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# Table 4.20Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1995

|            |                                                     |                |        | Pr     | oject Coc          | <b>Project Code Number</b> | -         | V      | vg.    |
|------------|-----------------------------------------------------|----------------|--------|--------|--------------------|----------------------------|-----------|--------|--------|
| ##         | Work Items                                          | Unit           | 95/2/1 | 95/2/2 | 95/2/3             |                            |           |        | Price  |
|            |                                                     |                |        |        | Items Prices in SR | es in SR                   |           | 3      | SR)    |
| -          | Excavation work                                     | e.             | 20     | 20     | 20                 |                            |           | 2(     | 00.0   |
| · ^        |                                                     | en.            | 19     | 19     | 19                 |                            |           | 1      | 0.0    |
| "          |                                                     | °m             | 25     | 25     | 25                 |                            |           | 57     | 25.00  |
| 0          | Plain concrete work under the foundation            | °m             | 325    | 325    | 325                |                            |           | 32     | 325.00 |
| ~          |                                                     | г<br>ш         | 675    | 675    | 675                |                            |           | 67     | 675.00 |
| <u> </u>   | _                                                   | m²             | 37     | 37     | 37                 |                            |           | 3,     | 37.00  |
| 5          | _                                                   | m²             | 385    | 385    | 385                |                            |           | 38     | 385.00 |
| œ          | Concrete pavers (40x40x5cm)                         | m²             | 30     | 30     | 30                 |                            |           | )<br>M | 30.00  |
| 0          | +                                                   | m <sup>2</sup> | 30     | 30     | 30                 |                            |           | э      | 30,00  |
| 2          | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 930    | 930    | 930                |                            |           | 93     | 930.00 |
| =          | CMU walls with 15 cm thickness                      | m <sup>2</sup> | 35     | 35     | 35                 |                            |           | 3      | 35.00  |
| 12         | 12 ICMU walls with 20 cm thickness                  | m²             | 39     | 39     | 39                 |                            |           | 3      | 39.00  |
| 12         | 13 [Glazed mosaic tiles (size 30x30x3cm)            | m²             | 38     | 38     | 38                 |                            |           | 38     | 38,00  |
| 4          | 14 Floor tiling                                     | m <sup>2</sup> | 30     | 30     | 30                 |                            |           | 3(     | 30.00  |
| <u> </u> 2 | 15 Natural marble of stairs                         | u              | 200    | 200    | 200                |                            |           | 20     | 200.00 |
|            |                                                     |                |        |        |                    |                            | Continued | led    |        |

### 4.20 continued

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|             |                                                                              |                 |        | đ.     | roject Coc         | Project Code Number | Avg.      |
|-------------|------------------------------------------------------------------------------|-----------------|--------|--------|--------------------|---------------------|-----------|
| #           | Work Items                                                                   | Unit            | 95/2/1 | 95/2/2 | 95/2/3             |                     | Price     |
| :           |                                                                              |                 |        |        | Items Prices in SR | es in SR            | (SR)      |
| 16          | Plastic weather-resistant naints                                             | m <sup>2</sup>  | 18     | 18     | 18                 |                     | 18.00     |
| 2           | White plazed ceramic tiles                                                   | m²              | 60     | 99     | 60                 |                     | <br>60.00 |
| :   ×       | Insulator laver for moisture                                                 | m²              | 75     | 75     | 75                 |                     | 75.00     |
| <u>;</u> 61 |                                                                              | m <sup>2</sup>  | 50     | 50     | . 50               |                     | 50.00     |
| 20          | Thermal insulation. vertical                                                 | m²              | 40     | 40     | 40                 |                     | 40.00     |
| 517         |                                                                              | 1m <sup>2</sup> | 14     | 14     | 14                 |                     | 14.00     |
| : ?         | Plastic naints for interior ceilings ( smooth Americ                         | m <sup>2</sup>  | 14     | 14     | 14                 |                     | 14.00     |
| 15          | Aliminim windows                                                             | m <sup>2</sup>  | 560    | 560    | 560                |                     | 560.00    |
| 24          | 24 Hollow metallic doors                                                     | m <sup>2</sup>  | 780    | 780    | 780                |                     | 780.00    |
| 25          | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.             | 184    | 184    | 184                |                     | 184.00    |
| 36          | Fluorescent lighting fixture, (2x40 watt) with refle                         | No.             | 200    | 200    | 200                |                     | 200.00    |
| 27          | 27 If amo-most for the site (4m high with 125 watt/220 volt lamp)            | No.             | 1400   | 1400   | 1400               |                     | 1400.00   |
| 28          |                                                                              | No.             | 234    | 234    | 234                |                     | 234.00    |
| 29          | Lighting switch (15 Amps/127 volt)                                           | No.             | 138    | 138    | 138                |                     | 138.00    |
| 8           | 30 Main switchboard, school building                                         | No.             | 66395  | 66395  | 66395              |                     | 66395.00  |
| 3           | Main distribution panelboard                                                 | No.             | 60864  | 60864  | 60864              |                     | 60864.00  |
| 33          | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | E               | 131    | 131    | 131                |                     | 131.00    |
| :<br>1      | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ               | 225    | 225    | 225                |                     | 225.00    |
| 34          | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.             | 2820   | 2820   | 2820               |                     | 2820.00   |
| 35          | 35 [Ceiling air fan {dia142cm (56in)}                                        | No.             | 560    | 560    | 560                |                     | 560.00    |
| 36          | 36 Drinking water cooler (tank type)                                         | No.             | 2960   | 2960   | 2960               |                     | 2960.00   |
|             |                                                                              |                 |        |        |                    |                     |           |

# Table 4.21Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1995

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|              |                                              |                  |        | Ъ      | oject Co | <b>Project Code Number</b> | oer   |           | Avg.   |
|--------------|----------------------------------------------|------------------|--------|--------|----------|----------------------------|-------|-----------|--------|
| 7            | Work Items                                   | Unit             | 95/3/1 | 95/3/2 |          |                            |       |           | Price  |
| -            |                                              | L                |        |        | Items Pr | Items Prices in SR         |       |           | (SR)   |
| -            | Reconstitut work                             | ге<br>Ш          | 25     | 25     |          |                            |       |           | 25.00  |
|              |                                              | ГE               | 50     | 20     |          |                            |       |           | 20.00  |
| 4 6          |                                              | ٣E               | 28     | 28     |          |                            |       |           | 28.00  |
|              |                                              | ۳E               | 325    | 325    |          |                            |       | <b>m</b>  | 325.00 |
| *   <b>*</b> |                                              | Ē                | 675    | 675    |          |                            |       | 9         | 675.00 |
|              | _                                            | m²               | 36     | 36     |          |                            |       | _         | 36.00  |
| 2            | _                                            | ۲ <mark>۳</mark> | 385    | 385    |          |                            |       |           | 385.00 |
| -   0        | _                                            | m²               | 35     | 35     |          |                            |       | _         | 35.00  |
| • =          | _                                            | 2<br>2           | 28     | 28     |          |                            |       | _         | 28.00  |
| <u>ہ</u>     | I thin concrete for the whole superstructife | Ē                | 980    | 980    |          |                            |       | 2         | 80.00  |
| : =          | CMIT walls with 15 cm thickness              | m2               | 30     | 30     |          |                            |       |           | 30,00  |
| : 2          |                                              | m²               | 35     | 35     |          |                            |       |           | 35.00  |
| 12           | _                                            | 2<br>2<br>2      | 38     | 38     |          |                            |       |           | 38.00  |
| 2 2          | 1.1 Plane filing                             | 2<br>E           | 30     | 30     |          |                            |       |           | 30,00  |
| 5 ¥          | 15 Moturel markle of stairs                  | ٤                | 200    | 200    |          |                            |       | 7         | 200.00 |
| -            |                                              |                  |        |        |          |                            | Conti | Continued |        |

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### **Table 4.21 continued**

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------|----------------|--------|--------|----------------------------|-----------|-----|----------|
| Plastic weather-resistant paints $m^2$ Image price in SKPlastic weather-resistant paints $m^2$ 181816White glazed coramic tiles $m^2$ 60606060Insulator layer for moisture $m^2$ 242426Thermal insulation, vorticontal $m^2$ 23232327Plastic paints for interior wells (smooth American Texture) $m^2$ 575151515Plastic paints for interior wells (smooth American Texture) $m^2$ 5755751616Plastic paints for interior wells (smooth American Texture) $m^2$ 5755751516Plastic paints for interior wells (smooth American Texture) $m^2$ 5755751516Plastic paints for interior wells (smooth American Texture) $m^2$ 73731616Plastic paints for interior wells (smooth American Texture) $m^2$ 73731515Alloninum windowsFilorescent lighting fixture, (154 watt), with reflectorNo.180780200142016Swich, AC: window type (2x-30 Ample)No.142014201420142014201430Swich, AC: window type (stall Plastic cover ceiling mountedNo.240240140140Lighting structed (15 Ample)No.1201420140140Mini switchboardNo.133133133133133All Cunti windows type (cool/heart [800 BUT/h, KW) <t< td=""><td>#</td><td>Work Items</td><td>Unit</td><td>95/3/1</td><td>95/3/2</td><td></td><td></td><td></td><td>Price</td></t<>                                                                                             | #           | Work Items                                            | Unit           | 95/3/1 | 95/3/2 |                            |           |     | Price    |
| Plastic weather-resistant paints $m^2$ $lab$                                                                                                                                                                                                                                                                                                                                                                                      | :           |                                                       |                |        |        | Items Pri                  | ces in SR |     | (SR)     |
| Mille glazed ceramic tiles         m²         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60 <t< td=""><td>14</td><td>Plastic weather-resistant paints</td><td>m²</td><td>18</td><td>18</td><td></td><td></td><td></td><td>18,00</td></t<> | 14          | Plastic weather-resistant paints                      | m²             | 18     | 18     |                            |           |     | 18,00    |
| Insulator<br>Insulator<br>Internal insulation, horizontal $m^2$ $40$ $40$ $40$ $40$ $40$ Thermal insulation, horizontalThermal insulation, horizontal $m^2$ $24$ $24$ $24$ $40$ Thermal insulation, horizontalThermal insulation, horizontal $m^2$ $15$ $20$ $20$ $20$ $20$ Plastic paints for interior valts (smooth American Texture) $m^2$ $15$ $15$ $15$ $24$ $24$ $24$ Plastic paints for interior valts (smooth American Texture) $m^2$ $15$ $575$ $575$ $26$ $20$ Plastic paints for interior valts (smooth American Texture) $m^2$ $757$ $575$ $575$ $26$ $260$ Fluorescent lighting fixture, (x4 watt), with plastic cover celling mountedNo. $189$ $189$ $189$ $240$ $240$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $240$ $240$ $240$ $240$ $240$ Switch, AC. window type (2x30 Amps)No. $1420$ $1420$ $1420$ $1420$ $1420$ Switch, AC. window type (2x30 Amps)No. $1420$ $1420$ $1420$ $1420$ $1420$ Main switchboard, school buildingMo. $1420$ $1420$ $160$ $160$ $160$ Main switchboard $160$ $1650$ $6500$ $6500$ $160$ $160$ Main switchboard $160$ $160$ $160$ $160$ $160$ $160$ Main switchboard $160$ $160$ $160$ $160$                                                                                                                                             | : =         |                                                       | m²             | 60     | 60     |                            |           |     | 60.00    |
| $\begin{tabular}{l l l l l l l l l l l l l l l l l l l $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | : ≃         |                                                       | m²             | 40     | 40     |                            |           |     | 40.00    |
| $\begin{tabular}{l l l l l l l l l l l l l l l l l l l $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2<br>2      |                                                       | m²             | 24     | 24     |                            |           |     | 24.00    |
| Plastic paints for interior walls ( smooth American Texture ) $m^2$ $15$ $15$ $15$ $15$ $16$ Plastic paints for interior cellings (smooth American Texture) $m^2$ $575$ $575$ $575$ $676$ $676$ Aluminum windowsAluminum windows $m^2$ $780$ $780$ $780$ $666$ $666$ Hollow metallic doors $m^2$ $780$ $780$ $780$ $666$ $666$ Fluorescent lighting fixture, (1x4 watt), with reflectorNo. $189$ $189$ $189$ $666$ $666$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $200$ $200$ $200$ $200$ $666$ Switch, AC. window type (2x30 Amps)No. $1420$ $1420$ $1420$ $666$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$                                                                                                                                                                                      | 2           |                                                       | m²             | 20     | 20     |                            |           |     | 20.00    |
| Plastic paints for interior cellings (smooth American Texture) $m^2$ $15$ $15$ $15$ $15$ $16$ $16$ Aluminum windowsAluminum windows $m^2$ $575$ $575$ $575$ $780$ $16$ $16$ Aluorescent lighting fixture, (1x4 watt), with reflector $m^2$ $780$ $780$ $189$ $16$ $16$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $189$ $189$ $160$ $16$ $16$ Switch, A/C. window type (2x30 Amps)No. $1420$ $1420$ $1420$ $160$ $16$ $16$ Switch, A/C. window type (2x30 Amps)No. $1420$ $1420$ $240$ $16$ $16$ $16$ Switch, A/C. window type (2x30 Amps)No. $1650$ $66500$ $66500$ $66500$ $167$ $16$ Main switchboardschool buildingNo. $145$ $145$ $145$ $16$ $16$ $16$ Main distribution panelboardNo. $60570$ $66500$ $66500$ $66500$ $66500$ $167$ $16$ Main distribution panelboardNo. $133$ $133$ $133$ $133$ $16$ $16$ $16$ A/C unit windows type (cool/heat 1800 BUT/h,KW)No. $2200$ $550$ $550$ $16$ $16$ $16$ Celling air fan dia (142cm (56in))No. $2950$ $2950$ $16$ $16$ $16$ $16$ Drinking water cooler (tank type) $100$ $100$ $200$ $200$ $100$ $100$ $100$ No $1$                                                                                                                                                                                                                    | <u>م</u>    | Plastic naints for interior walls ( smooth American   | m²             | 15     | 15     |                            |           |     | 15.00    |
| Alluminum windows $m^2$ 5755755756 $m^2$ Hollow metallic doorsHollow metallic doors $m^2$ 780780780 $m^2$ Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.189189 $m^2$ $m^2$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo.200200 $m^2$ $m^2$ $m^2$ $m^2$ Switch, ACC. window type (2x40 watt) with reflectorNo.14201420 $m^2$ </td <td>i<br/>I<br/>R</td> <td>Plastic naints for interior ceilings (smooth Americ</td> <td>m²</td> <td>15</td> <td>15</td> <td></td> <td></td> <td></td> <td>15.00</td>                                                                                                                                                | i<br>I<br>R | Plastic naints for interior ceilings (smooth Americ   | m²             | 15     | 15     |                            |           |     | 15.00    |
| Hollow metallic doors $m^2$ 7807807807806Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.18918966Fluorescent lighting fixture, (2x40 watt) with reflectorNo.20020020066famp-post for the site (4m high with 125 wat/220 volt lamp)No.240240966Switch, A/C. window type (2x30 Amps)No.142014201420666Lighting switch (15 Amps/127 volt)No.2402402406666Main switchboardschool buildingNo.6650066500665006666Main switchboardNo.6087060870608706087067133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133133134141141141141 <td>3</td> <td>Aluminum windows</td> <td>m<sup>2</sup></td> <td>575</td> <td>575</td> <td></td> <td></td> <td></td> <td>575.00</td>                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3           | Aluminum windows                                      | m <sup>2</sup> | 575    | 575    |                            |           |     | 575.00   |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.189189189189Fluorescent lighting fixture, (2x40 watt) with reflectorNo.2002002001420Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.1420142014201420Switch, A/C. window type (2x30 Amps)No.14201420240240145Switch, A/C. window type (2x30 Amps)No.143145145145145Switch, A/C. window type (2x30 Amps)No.143145145145145Switch, A/C. window type (2x30 Amps)No.143145145145145Main switchboard, school buildingNo.66500665006650066500143Main switchboardNo.133133133133133Reinforced thermoplastic cable (size $3x185x95 mm^3$ )No.20020020020010AC unit windows type (cool/heat $1800 BUT/h, KW)$ No.22022002001010Ociling air fan dia $\{142cm (56in)\}$ No.5505505505010Drinking water cooler (tank type)No.29505505501010                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2           |                                                       | m <sup>2</sup> | 780    | 780    |                            |           |     | 780.00   |
| Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $200$ $200$ $200$ $100$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)No. $1420$ $1420$ $1420$ $100$ Switch, A/C. window type (2x30 Amps)Notthe site (4m high with 125 watt/220 volt lamp)No. $240$ $240$ $200$ Switch, A/C. window type (2x30 Amps)No. $145$ $145$ $145$ $100$ Switch, A/C. window type (2x30 Amps)No. $145$ $145$ $100$ $100$ Main switchboardNo. $145$ $145$ $100$ $100$ $100$ Main switchboardNo. $66500$ $66500$ $66500$ $60870$ $100$ $100$ Main distribution panelboardm $133$ $133$ $133$ $133$ $100$ $100$ Reinforced thermoplastic cable (size $30x240x120mn^2$ )m $227$ $227$ $220$ $100$ $100$ A/C unit windows type (cool/Incut 1800 BU/T/h,KW)No. $250$ $550$ $550$ $550$ $100$ $100$ Celling air fan dia {142cm (56in)}No. $2950$ $2950$ $2950$ $100$ $100$ $100$ Drinking water cooler (tank type)No. $2950$ $2950$ $100$ $100$ $100$ $100$                                                                                                                                                                                                                                                                                                                                                     | 25          | Fluorescent lighting fixture. (1x4 watt), with plasti | No.            | 189    | 189    |                            |           |     | 189.00   |
| I amp-post for the site (4m high with 125 watt/220 volt lamp)No.142014201420Switch, A/C. window type (2x30 Amps)Switch, A/C. window type (2x30 Amps)Lighting switch (15 Amps/127 volt)No.240240240Main switchboardNo.66500665006650066Main switchboardNo.6087060870608709Main distribution panelboardNo.6087060870608709Main distribution panelboardNo.227227279Colored thermoplastic cable (size 30x240x120mm²)No.220022002009A/C unit windows type (cool/heat 1800 BUT/h,KW)No.2200220020099Celling air fan dia {142cm (56in)}No.5505505606699Drinkling water cooler (tank type)No.295029505009999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 26          | Fluorescent lighting fixture. (2x40 watt) with refle  | No.            | 200    | 200    |                            |           |     | 200.00   |
| Switch, A/C. window type (2x30 Amps)       No.       240       240       240 $= 40$ $= 40$ Lighting switch (15 Amps/127 volt)       No.       145       145       145 $= 40$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66500$ $= 66600$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$ $= 60870$                                                                                                                                                                                                                                                                                                                                                                                                                                | 5           | Lamp-post for the site (4m high with 125 watt/220     | No.            | 1420   | 1420   |                            |           |     | 1420.00  |
| Lighting switch (15 Amps/127 volt)Lighting switch (15 Amps/127 volt)No.Lighting switch (15 Amps/127 volt)Lighting switch (15 Amps/127 volt)Main switch board, school buildingMo. $66500$ $66500$ $66500$ $66500$ $6670$ Main distribution panelboardNo. $66870$ $66870$ $66870$ $60870$ $60870$ Main distribution panelboardNo. $133$ $133$ $133$ $133$ Thermoplastic cable (size $3x185x95$ mm²)m $227$ $227$ $227$ Act unit windows type (cool/heat $1800$ BUT/h,KW)No. $2200$ $2200$ $2200$ $550$ Act unit windows type (cool/heat $1800$ BUT/h,KW)No. $550$ $550$ $550$ $m$ $m$ Drinking water cooler (tank type)No. $2950$ $2950$ $100$ $m$ $m$ $m$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 28          |                                                       | No.            | 240    | 240    |                            |           |     | 240.00   |
| Main switchboard, school buildingNo. $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66500$ $66870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $60870$ $207$ $207$ $207$ $207$ $207$ $207$ $207$ $207$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ $200$ <td>50</td> <td>Lighting switch (15 Amps/127 volt)</td> <td>No.</td> <td>145</td> <td>145</td> <td></td> <td></td> <td></td> <td>145.00</td>                                                                                                                                                                                                     | 50          | Lighting switch (15 Amps/127 volt)                    | No.            | 145    | 145    |                            |           |     | 145.00   |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8           | Main switchboard, school building                     | No.            | 66500  | 66500  |                            |           |     | 66500.00 |
| 95 mm <sup>2</sup> ) m 133 133 m m 133 m m m m m m m m m m m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | E           | Main distribution panelboard                          | No.            | 60870  | 60870  |                            |           |     | 60870.00 |
| ize 30x240x120mm <sup>2</sup> ) m 227 227 227 [] [] [] [] [] [] [] [] [] [] [] [] []                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8           | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )  | E              | 133    | 133    |                            |           |     | 133.00   |
| I [800 BUT/ħ,KW) No. 2200 2200 2200 [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18          | Reinforced thermoplastic cable (size 30x240x120m      | u              | 227    | 227    |                            |           |     | 227.00   |
| ) No. 550 550 [ [ [ ] ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3           | A/C unit windows type (cool/heat 1800 BUT/h,KW        | No.            | 2200   | 2200   |                            |           |     | 2200.00  |
| No. 2950 2950 [                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3           | Ceiling air fan dia {142cm (56in)}                    | No.            | 550    | 550    |                            |           |     | 550.00   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36          | Drinking water cooler (tank type)                     | No.            | 2950   | 2950   |                            |           |     | 2950.00  |

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#### 4.1.2 Calculation of Total Price of Each Item and the Sum of Total Prices of the Price Index Items:

The average of quantities for each item has been taken from Table 4.1 and listed in Tables 4.22 - 4.27 for Riyadh area. Also, the average of prices for the year 1990 in Riyadh area for each item has been taken from Table 4.4 and listed in Table 4.22. this has been repeated for the average of prices for the year 1991-1995 in Riyadh area in Tables 4.23 - 4.27 respectively.

The average of quantities for each item has been taken form Table 4.2 and listed in Tables 4.28 - 4.33 for Jeddah area. Also, the average of prices for the year 1990 in Jeddah area for each item has been taken from Table 4.5 and listed in Table 4.28. This has then been repeated for the average of prices for the years 1991-1995 in Jeddah area in Tables 4.29 - 4.33 respectively.

The average of quantities for each item has been taken form Table 4.3 and listed in Tables 4.34 - 4.39 foe Eastern Province area. Also, the average of prices for the year 1990 in Eastern Province area for each item has been taken from Table 4.6 and listed in Table 4.34. This has been repeated for the average of prices for the year 1991-1995 in Eastern Province in Tables 4.35 - 4.39 respectively.

# Table 4.22Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - RiyadhYear 1990

-4

|     |                                                  |                | The Average | The Average | The Total |
|-----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #   | Work Items                                       | Unit           | of          | of the Unit | Price     |
|     |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -   | Excavation work                                  | m <sup>3</sup> | 2258.33     | 24.80       | 56006.58  |
| 7   | Backfilling work                                 | m <sup>3</sup> | 2275.00     | 17.83       | 40563.25  |
|     | Excavation work for the foundation               | m <sup>3</sup> | 1566.67     | 31.00       | 48566.77  |
| . 4 | Plain concrete work under the foundation         | m³             | 250.00      | 231.50      | 57875.00  |
| s   | Reinforced concrete work for the foundation      | m <sup>3</sup> | 585.83      | 671.50      | 393384.85 |
| 9   | Natural crushed stone sub-base coarse            | m²             | 455.00      | 66.00       | 30030.00  |
| 7   | Building made from Calcium Silicate Bricks       | m²             | 661.67      | 99.83       | 66054.52  |
| ∞   | Concrete pavers (40x40x5cm)                      | m²             | 3390.00     | 56.50       | 191535.00 |
| 6   | Plain concrete with 10 cm thickness              | m²             | 1640.00     | 20.33       | 33341.20  |
| 2   | Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 1040.00     | 716.83      | 745503.20 |
| 11  | CMU walls with 15 cm thickness                   | m²             | 1695.00     | 33.50       | 56782.50  |
| 12  | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 39.00       | 95940.00  |
| 13  | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 2580.00     | 56.00       | 144480.00 |
| 14  | Floor tiling                                     | m²             | 1500.00     | 35.00       | 52500.00  |
| 15  | Natural marble of stairs                         | u              | 196.00      | 160.83      | 31522.68  |
|     |                                                  |                |             |             | Continued |

| of the Unit           Price (SR)           43.00           67.33           67.33           67.33           67.33           67.33           67.33           5.13           30.83           30.83           30.83           30.83           30.83           30.83           30.83           30.83           30.83           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.33           35.400           136.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                                                              |                | The Average                           | The Average            | The Total    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------|----------------|---------------------------------------|------------------------|--------------|
| Plastic veather-resistant paints $\sim$ QuantifiesPrice (SR)Plastic veather-resistant paints $m^2$ 6530.0043.00While glazed ceramic tiles $m^2$ 910.0067.33Insulation lyper for moisture $m^2$ 1480.0030.83Thermal insulation, vertical $m^2$ 1480.0030.83Thermal insulation, vertical $m^2$ 1480.0030.83Thermal insulation, vertical $m^2$ 1480.0030.83Plastic paints for interior valts (smooth American Texture) $m^2$ 1480.0030.83Plastic paints for interior valts (smooth American Texture) $m^2$ 2280.0030.33Plastic paints for interior valts (smooth American Texture) $m^2$ 238.0035.17Plastic paints for interior valts (smooth American Texture) $m^2$ 238.0035.33Insultation, vertical $m^2$ 239.0035.3317Plastic paints for interior cellings (smooth American Texture) $m^2$ 239.0035.33Interior wilds for unclows $m^2$ 239.00203.3313Interior wilds for unclowsNoNo231.00236.67Intersect lighting fixture, (144 wath), with plastic cover celling mountedNo231.00233.33Fluorescent lighting fixture, (144 wath), with plastic cover celling mountedNo231.00236.67Intorescent lighting fixture, (154 wath) with plastic cover celling mountedNo231.00236.67Intorescent lighting fixture, (154 wath), with plastic cover celling mountedNo                                                                                                                                                                                                                                           | 72 | Work Items                                                                   | Unit           | of                                    | of the Unit            | Price        |
| plastic wardhrer-resistant paints         m²         6550.00         43.00           While gazed ceramic titss         m²         910.00         67.33           While gazed ceramic titss         m²         1850.00         30.83           Insultator layer for moisture         m²         1850.00         29.67           Thermal insultation, vertical         m²         150.00         24.00           Thermal insultation, vertical         m²         150.00         35.33           Plastic paints for interior valls (smooth American Texture)         m²         1570.00         35.33           Plastic paints for interior cellings (smooth American Texture)         m²         1570.00         35.33           Hounium windows         m²         170.00         35.33         170.00           Hollow metallic doors         m²         170.00         35.33         170.00           Follow metallic doors         m²         170.00         35.33         175.00           Indiviention mointows         m²         170.00         35.33         175.00           Indiviention         m²         170.00         135.33         175.00           Indiviention         No.         10.30         266.67         1135.67           Indiviention                                                                                                                                                                                                                                   | =  |                                                                              |                | Quantities                            | Price (SR)             | (SR)         |
| White glazed cermic tiles         m²         910.00         67.33           Insulator layer for moisture         m²         1850.00         30.83           Insulator layer for moisture         m²         1850.00         30.61           Intermal insulation, vertical         m²         1550.00         23.67           Intermal insulation, vertical         m²         1550.00         24.00           Plastic paints for interior walls (smooth American Texture)         m²         349.00         35.33           Plastic paints for interior vellings (smooth American Texture)         m²         349.00         35.33           Interior walls (smooth American Texture)         m²         349.00         35.33           Aluminum windows         m²         170.00         35.33           Aluminum vindows         m²         170.00         35.33           Iollow metallic doors         m²         170.00         35.33           Interior cellings fixture, (1x4 watt), with plastic cover celling mounted         No         291.00         203.33           Iollow metallic doors         function         27.50         1135.00         216.67           Interior cellings fixture, (2x40 watt) with plastic cover celling mounted         No         21.00         216.67           Iollonow w                                                                                                                                                                             | 19 | Plastic weather-resistant paints                                             | m²             | 6550.00                               | 43.00                  | 281650,00    |
| Insulator layer for moisture         m²         1850.00         30.83           Thermal insulation, horizontal         m²         1480.00         29.67           Thermal insulation, vertical         m²         1550.00         29.67           Thermal insulation, vertical         m²         1550.00         24.00           Thermal insulation, vertical         m²         1670.00         36.17           Plastic paints for interior wells (smooth American Texture)         m²         1670.00         35.33           Plastic paints for interior vells (smooth American Texture)         m²         1670.00         35.33           Allouninum windows         m²         170.00         35.33         15           Allou nealitic doors         m²         170.00         35.33         15           Allou nealitic doors         m²         170.00         35.33         15           Intorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No         27.60         1135.00         24.66.67           Intorescent lighting fixture, (1x4 watt), with reliceor         No         27.60         1135.67         116.67         12.66.7           Intorescent lighting fixture, (1x4 watt), with reliceor         No         27.60         1135.33         116.67         12.66.67                                                                                                                                                                     | 12 | White plazed ceramic tiles                                                   | m²             | 910.00                                | 67.33                  | 61270.30     |
| Itermal insulation, horizontal $m^2$ 1480.00 $29.67$ Itermal insulation, vertical $m^2$ 1550.00 $24.00$ Itermal insulation, vertical $m^2$ 1550.00 $24.00$ Itermal insulation, vertical $m^2$ 2380.00 $36.17$ Iteratic paints for interior vells (smooth American Texture) $m^2$ $1670.00$ $35.33$ Iteration vells (smooth American Texture) $m^2$ $1670.00$ $35.33$ $1610.00$ Iteration vells (smooth American Texture) $m^2$ $170.00$ $35.33$ $1610.00$ Iteration vells (secont American Texture) $m^2$ $170.00$ $35.33$ $170.00$ Iteration vells (cons $m^2$ $170.00$ $36.67$ $133.33$ Iteration realitie dores $No_1 103.00$ $No_2 203.33$ $1135.00$ Iteration vells (strue, (15 Amps/177 volt) $No_2 210.00$ $20.333.33$ Iteration synch (15 Amps/127 volt) $No_2 210.00$ $20.333.33$ Itermoplastic cable (size $30X.40X.120.000^2$ ) $No_2 210.00$ $20.333.33$ Itermoplastic cable (size $30X.40X.120$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8  | Insulator laver for moisture                                                 | m <sup>2</sup> | 1850.00                               | 30,83                  | 57035.50     |
| Thermal insulation, vartical         m²         1550.00         24.00           Plastic paints for interior walls (smooth American Texture)         m²         2280.00         36.17           Plastic paints for interior walls (smooth American Texture)         m²         1670.00         35.17           Plastic paints for interior ceilings (smooth American Texture)         m²         1670.00         35.17           Aluminum windows         m²         170.00         436.67         333.17           Hollow metalling fixture, (1x4 watt), with plastic cover ceiling mounted         No.         103.00         203.33           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         275.00         135.667           Lamp-post for the site (4m high with 125 watU220 volt lamp)         No.         275.00         136.677           Lamp-post for the site (4m high with 125 watU27 volt)         No.         275.00         128.33           Lamp-post for the site (4m high with 125 watU27 volt)         No.         110.00         1866.67           Main switchboard, school building         No.         275.60         216.67         216.67           Main distribution panelboard         No.         10.00         1333.33         11666.67         124.83           Main distribution panelboard         No.         271.67 <td>61</td> <td>Thermal insulation, horizontal</td> <td>m²</td> <td>1480.00</td> <td>29.67</td> <td>43911.60</td> | 61 | Thermal insulation, horizontal                                               | m²             | 1480.00                               | 29.67                  | 43911.60     |
| Plastic paints for interior walls (smooth American Texture) $m^2$ 2280.00 $36.17$ Plastic paints for interior valls (smooth American Texture) $m^2$ $1670.00$ $35.33$ Plastic paints for interior cellings (smooth American Texture) $m^2$ $1670.00$ $35.33$ Aluminum windows $m^2$ $170.00$ $35.33$ $333.17$ Hollow metallic doors $m^2$ $170.00$ $356.67$ $333.15$ Fluorescent lighting fixture, (1x4 watt), with Plastic cover celling mounted         No. $291.00$ $366.67$ Fluorescent lighting fixture, (2x40 watt) with reflector         No. $27.50$ $1135.00$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No. $27.50$ $1135.00$ Switch, AC. window type (2x30 Amps)         No. $82.00$ $216.67$ $1135.00$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No. $27.50$ $1135.00$ $216.67$ Main switchboard         No.         No. $27.50$ $128.33$ $16.667$ Main switchboard         No.         No. $10.00$ $128.33$ $16.667$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50 | Thermal insulation, vertical                                                 | m²             | 1550.00                               | 24.00                  | 37200,00     |
| plastic paints for interior cellings (smooth American Texture) $m^2$ 1670.00         35.33           Aluminum windows $m^2$ 349.00         393.17           Aluminum windows $m^2$ 170.00         436.67           Hollow metallic doors $m^2$ 103.00         203.33           Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         291.00         203.33           Pluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         291.00         203.33           Pluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         291.00         203.33           Interspost for the site (4m high with 125 watt/220 volt lamp)         No.         291.00         216.67         1135.00           Switch, AC. window type (2x30 Amps)         No.         82.00         1135.00         216.67         1135.00           Main switchboard, school building         No.         82.00         128.33         106.67         128.33           Main distribution panelboard         No.         1.00         826.67         128.33         106.67           Main distribution panelboard         No.         1.00         10.00         126.67         124.83           Ma                                                                                                                                                                                                           | 21 | Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 2280.00                               | 36.17                  | 82467.60     |
| Aluminum windows $m^2$ 349,00         393,17           Hollow metallic doors $m^2$ 170,000         436.67         436.67           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         291,000         236.67         2           Fluorescent lighting fixture, (1x4 watt), with reflector         No.         271.50         1135,00         266.67           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         271.50         1135,00         216.67           Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No.         271.60         1133,33         1135,00           Switch, AC. window type (2x30 Amps)         No.         No.         1.00         186.66         1135,00           Main switchboard, school building         No.         No.         1.00         186.66         128.33           Main switchboard         No.         No.         1.00         1866.66         128.33           Main distribution panelboard         No.         1.00         1866.66         128.33           Main distribution panelboard         No.         1.00         1866.66         124.83           Main distribution panelboard         No.         271.67         124.83         136.67                                                                                                                                                                                                      | 2  | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                               | 35.33                  | 59001.10     |
| Hollow metallic doors         m³         170.00         436.67         436.67           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         291.00         203.33         1           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         291.00         266.67         1           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         27.50         1135.00         266.67         1           Switch, A/C. window type (2x30 Amps)         No.         No.         27.50         1135.00         216.667         1           Switch, A/C. window type (2x30 Amps)         No.         No.         141.00         138.33         1           Main switchboard, school building         No.         No.         141.00         18333.33         1           Main switchboard         No.         No.         10.00         138.33         1         1           Main distribution panelboard         No.         No.         10.00         18333.33         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>53</td><td>Aluminum windows</td><td>m²</td><td>349.00</td><td>393.17</td><td>137216.33</td></td<>                                                                                                    | 53 | Aluminum windows                                                             | m²             | 349.00                                | 393.17                 | 137216.33    |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.103.00203.33Fluorescent lighting fixture, (2x40 watt) with reflectorNo.103.00203.33SolutionFluorescent lighting fixture, (2x40 watt) with reflectorNo. $271.50$ 1135.00266.671Lamp-post for the site (4m high with 125 watt/220 volt lamp)No. $277.50$ 1135.00216.671Switch, A/C. window type (2x30 Amps)No.No. $271.60$ $216.67$ 11Main switchboard, school buildingNo.No. $1.00$ $1866.67$ 11Main switchboard, school buildingNo. $1.00$ $1833.33$ 11Main switchboard, school buildingNo. $1.00$ $1833.33$ 11Main switchboardNo.No. $1.00$ $18333.33$ 11Main switchboardNo.No. $271.67$ $124.83$ 1Main switchboardNo.No. $271.67$ $124.83$ 1Main switchboardNo.No. $271.67$ $124.83$ 1Main switchboardNo.No. $271.67$ $124.83$ 1Main distribution panelboardNo. $271.67$ $124.83$ 1Main distribution panelboardNo. $271.67$ $124.83$ 1Main distribution panelboardNo. $271.67$ $215.83$ 1A/C unit windows type (cool/heat 1800 BUT/h,KW)No. $2000$ $216.833.33$ 1A/C unit windows type (cool/heat 180                                                                                                                                                                                                                                                                                                                                                                                                              | 24 | Hollow metallic doors                                                        | m²             | 170.00                                | 436.67                 | 74233.90     |
| Fluorescent lighting fixture, (2x40 watt) with reflector       No.       291.00       266.67         Lamp-post for the site (4m high with 125 watt/220 volt lamp)       No. $27.50$ 1135.00       1135.00         Switch, A/C. window type (2x30 Amps)       No. $82.00$ $216.67$ 1135.00         Switch, A/C. window type (2x30 Amps)       No. $141.00$ $128.33$ 1135.00         Lighting switch (15 Amps/127 volt)       No. $141.00$ $128.33$ 100         Main switchboard, school building       No. $10.00$ $128.33$ 100         Main switchboard, school building       No. $1.00$ $1866.67$ 128.33         Main switchboard, school building       No. $10.00$ $128.33$ 100         Main distribution panelboard       No. $10.00$ $128.33$ 124.83         Main distribution panelboard       No. $10.00$ $124.83$ 124.83         Act unit windows type (cool/fneat 1800 BUT/h,KW)       Mo. $82.00$ $1116.67$ $124.83$ A/C unit windows type (cool/fneat 1800 BUT/h,KW)       No. $82.00$ $215.83$ 100         A/C unit windows type (cool/fneat 1800 BUT/h,KW)       No. $80.00$                                                                                                                                                                                                                                                                                                                                                                                                          | 25 | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00                                | 203.33                 | 20942.99     |
| Lamp-post for the site (4m high with 125 watt/220 volt lamp)       No.       27.50       1135.00         Switch, A/C. window type (2x30 Amps)       No.       82.00       216.67       216.67         Lighting switch (15 Amps/127 volt)       No.       141.00       128.33       216.67         Main switchboard, school building       No.       1.00       18333.33       216.67       216.67         Main switchboard, school building       No.       1.00       18333.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       233.33       245.666.67       212.4.83       24.6.6.66.67       212.4.83       24.6.6.66.67       212.4.83       24.6.6.6.66.67       212.4.83       24.6.6.6.66.67       212.4.83       24.6.6.6.66.67       212.4.83       24.6.6.6.67       212.4.83       24.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6                                                                                                                                                                                                                                                                                     | 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                                | 266.67                 | 77600.97     |
| Switch, A/C. window type (2x30 Amps)         No.         82.00         216.67           Lighting switch (15 Amps/127 volt)         No.         141.00         128.33           Main switchboard, school building         No.         1.00         18666.67           Main distribution panelboard         No.         1.00         18333.33           Thermoplastic cable (size 30x240x120mm <sup>3</sup> )         No.         271.67         124.83           Reinforced thermoplastic cable (size 30x240x120mm <sup>3</sup> )         No.         271.67         124.83           A/C unit windows type (cool/neat 1800 BUT/h,KW)         No.         82.00         1716.67         124.83           A/C unit windows type (cool/neat 1800 BUT/h,KW)         No.         82.00         308.33         308.33           Drinkting water cooler (tank type)         No.         No.         80.00         308.33         308.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 27.50                                 | 1135.00                | 31212.50     |
| Lighting switch (15 Amps/127 volt)       No.       141.00       128.33         Main switchboard, school building       No.       1.00       18666.67         Main distribution panelboard       No.       1.00       18666.67         Main distribution panelboard       No.       1.00       18333.33         Thermoplastic cable (size $3x185x95  mm^3$ )       m $271.67$ 124.83         Reinforced thermoplastic cable (size $3x240x120mm^3$ )       m $255.00$ $215.83$ A/C unit windows type (cool/heat $1800  BUT/h, KW$ )       No. $82.00$ $1716.67$ A/C unit windows type (cool/heat $1800  BUT/h, KW$ )       No. $82.00$ $308.33$ Drinking water cooler (tank type)       No.       No. $80.00$ $2483.33$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 28 | Switch. A/C, window type (2x30 Amps)                                         | No.            | 82.00                                 | 216.67                 | 17766.94     |
| Main switchboard, school building         No.         1.00         18666.67           Main distribution panelboard         No.         1.00         18666.67           Main distribution panelboard         No.         1.00         18333.33           Thermoplastic cable (size $3x185x95  mn^3$ )         m $271.67$ 124.83           Thermoplastic cable (size $3x185x95  mn^3$ )         m $271.67$ $124.83$ Reinforced thermoplastic cable (size $3x240x120mn^3$ )         m $255.00$ $215.83$ A/C unit windows type (cool/heat $1800  BUT/h, KW$ )         No. $82.00$ $1716.67$ A/C unit windows type (cool/heat $1800  BUT/h, KW$ )         No. $80.00$ $308.33$ Ceiling air fan {dia 142cm (56in)}         No. $80.00$ $308.33$ Drinking water cooler (tank type)         No. $No.$ $10.00$ $2483.33$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 141.00                                | 128.33                 | 18094.53     |
| Main distribution panelboard       No.       No.       1.00       18333.33         Thermoplastic cable (size $3x185x95 \text{ mm}^3$ )       m $271.67$ 124.83         Reinforced thermoplastic cable (size $30x240x120\text{ mm}^2$ )       m $255.00$ 215.83         A/C unit windows type (cool/fneat 1800 BUT/h,KW)       No. $82.00$ $1716.67$ Ceiling air fan {dia 142cm (56in)}       No. $80.00$ $308.33$ Drinking water cooler (tank type)       No.       No. $10.00$ $2483.33$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30 | Main switchboard, school building                                            | No.            | 1.00                                  | 18666.67               | 18666.67     |
| Thermoplastic cable (size $3x185x95 \text{ mm}^3$ )       m $271.67$ $124.83$ Reinforced thermoplastic cable (size $30x240x120\text{ mm}^3$ )       m $255.00$ $215.83$ A/C unit windows type (cool/heat $1800 \text{ BUT/h}, \text{KW}$ )       No. $82.00$ $1716.67$ Ceiling air fan {dia 142cm (56in)}       No. $80.00$ $308.33$ Drinking water cooler (tank type)       No.       No. $10.00$ $2483.33$ of The Sum of The Sum of The Total Prices       of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 31 | Main distribution panelboard                                                 | No.            | 1.00                                  | 18333.33               | 18333.33     |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         255.00         215.83           A/C unit windows type (cool/freat 1800 BUT/h,KW)         No.         82.00         1716.67           A/C unit windows type (cool/freat 1800 BUT/h,KW)         No.         80.00         308.33           Ceiling air fan {dia 142cm (56in)}         No.         80.00         308.33           Drinking water cooler (tank type)         No.         No.         10.00         2483.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 271.67                                | 124.83                 | 33912.57     |
| A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.00     1716.67       Ceiling air fan {dia 142cm (56in)}     No.     80.00     308.33       Drinking water cooler (tank type)     No.     10.00     2483.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 33 | Reinforced thermoplastic cable (size 30x240x120mm²)                          | E              | 255.00                                | 215.83                 | 55036.65     |
| Ceiling air fan {dia 142cm (56in)}     No.     80.00     308.33       Drinking water cooler (tank type)     No.     10.00     2483.33       The Sum of The Total Prices       of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                                 | 1716.67                | 140766.94    |
| Drinking water cooler (tank type) 2483.33<br>The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 80.00                                 | 308,33                 | 24666.40     |
| The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                                 | 2483.33                | 24833.30     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                              |                | The Sum of The T<br>of The Index Item | 'otal Prices<br>s (SR) | 3,359,905.66 |

#### Table 4.23 Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items Educational Area - Riyadh Year 1991

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|            |                                                  |                  | The Average | The Average | The Total |
|------------|--------------------------------------------------|------------------|-------------|-------------|-----------|
| *          | Work Items                                       | Unit             | of          | of the Unit | Price     |
| :          |                                                  |                  | Quantities  | Price (SR)  | (SR)      |
|            | Rycavation work                                  | ۳                | 2258.33     | 15.33       | 34620.20  |
| •          | Rackfilling work                                 | Ē                | 2275.00     | 14.17       | 32236,75  |
|            | Receivation work for the foundation              | Ē                | 1566.67     | 40.00       | 62666,80  |
| , <b>1</b> | Plain concrete work under the foundation         | ĩe               | 250.00      | 183.33      | 45832.50  |
|            | Reinforced concrete work for the foundation      | ۳E               | 585.83      | 595.00      | 348568.85 |
| ,          | Natural crushed stone sub-base coarse            | ۲ <mark>۳</mark> | 455.00      | 30.00       | 13650.00  |
| -          | Building made from Calcium Silicate Bricks       | m <sup>2</sup>   | 661.67      | 91.67       | 60655.29  |
| ~          | Concrete pavers (40x40x5cm)                      | ۳<br>۳           | 3390.00     | 50.83       | 172313.70 |
| •          | Plain concrete with 10 cm thickness              | ۳щ               | 1640.00     | 16.67       | 27338.80  |
| , c        | Reinforced concrete for the whole superstructure | ΓE               | 1040.00     | 625.00      | 65000.00  |
| =          | CMU walls with 15 cm thickness                   | ۳<br>۳           | 1695.00     | 31.67       | 53680.65  |
| 12         | CMU walls with 20 cm thickness                   | m²               | 2460.00     | 35,00       | 86100.00  |
|            | [Glazed mosaic tiles (size 30x3cm)               | <sup>2</sup> ۳   | 2580.00     | 50.83       | 131141.40 |
|            | Floor tiling                                     | ۲ <mark>н</mark> | 1500.00     | 34.17       | 51255.00  |
| 15         | Natural marble of stairs                         | E                | 196.00      | 158.33      | 31032.68  |
|            |                                                  | ĺ                |             |             | Continued |

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| #         ·         Work Items         Unit         of         of the Unit           16         Plastic venther-resistant paints $m^2$ 6550.00         30.83           17         White glazed ceranic tites $m^2$ 910.00         62.90         30.83           17         White glazed ceranic tites $m^2$ 910.00         62.90         30.83           18         Insulator layer for moisture $m^2$ 1480.00         33.83         1495.00         33.83           19         Thermal insulation, verizontal $m^2$ 1480.00         33.83         1667           21         Plastic paints for interior cellings (smooth American Texture) $m^2$ 1550.00         21.67           22         Plastic paints for interior cellings (smooth American Texture) $m^2$ 1570.00         21.67           23         Aluminum windows $m^2$ 1570.00         23.93         250.00           25         Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         100.00         27.50         233.33           26         Fluorescent lighting fixture, (2x40 watt) with reflector         No.         27.50         20000         27.50         20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                              |                | The Average             | The Average | The Total    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------|----------------|-------------------------|-------------|--------------|
| Plastic weather-resistant paintsQuantitiesPlastic weather-resistant paints $m^2$ $6550.00$ White glazed ceramic tiles $m^2$ $6550.00$ White glazed ceramic tiles $m^2$ $910.00$ Insultation, borizontal $m^2$ $1850.00$ Thermal insultation, vertical $m^2$ $1850.00$ Thermal insultation, vertical $m^2$ $1350.00$ Thermal insultation, vertical $m^2$ $1350.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $1350.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $1370.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $1370.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $2280.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $1370.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $2280.00$ Plastic paints for interior valls (smooth American Texture) $m^2$ $2250.00$ Plastic paints for interior valls (strue, (1x4 watt), with plastic cover celling mountedNo. $1070.00$ Plastic paints for interior valls (strue, (2x40 watt) with reflectorNo. $271.00$ $1141.00$ Plastic paints for interior valls (strue, (2x40 watt))No. $271.67$ $100$ Main switchboardschool buildingNo. $100$ $100$ Main switchboardMain switchboardNo. $1.00$ $100$ Main switchboardMain switchboardNo. $1.00$ <th>7#</th> <th></th> <th>Unit</th> <th>of</th> <th>of the Unit</th> <th>Price</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7#  |                                                                              | Unit           | of                      | of the Unit | Price        |
| Plastic weather-resistant paints $m^2$ 6550.00 $m^2$ White glazed ceramic tiles $m^2$ 910.00 $m^2$ Insullator layer for moisture $m^2$ 1850.00 $m^2$ Insullator, layer for moisture $m^2$ 1850.00 $m^2$ Thermal insullation, vertical $m^2$ 1550.00 $m^2$ Thermal insullation, vertical $m^2$ 1550.00 $m^2$ Thermal insullation, vertical $m^2$ 1550.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 1500.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 1500.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 1500.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 1500.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 170.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 170.00 $m^2$ Plastic paints for interior walls (strue, (14 watt), with plastic cover ceiling mountedNo.170.00 $m^2$ Planterscent lighting fixture, (14 watt) with felectorNo.27.50No.27.50Increasent lighting fixture, (240 watt) with reflectorNo.141.00No. $m^2$ Increasent lighting fixture, (240 watt) with reflectorNo.141.00No. $m^2$ Increasent lighting fixture, (240 watt)No.No. $1.00^{-0}$ $m^2$ Increasent lighting switch (15 Am                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                                                              |                | Quantities              | Price (SR)  | (SR)         |
| While glazed ceramic tites $m^2$ $910.00$ $m^2$ Insultation, horizontal $m^2$ $1850.00$ $m^2$ Thermal insultation, horizontal $m^2$ $1850.00$ $m^2$ Thermal insultation, horizontal $m^2$ $1550.00$ $m^2$ Thermal insultation, vertical $m^2$ $1550.00$ $m^2$ Thermal insultation, vertical $m^2$ $2280.00$ $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ $2280.00$ $m^2$ Plastic paints for interior cellings (smooth American Texture) $m^2$ $1670.00$ $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ $1670.00$ $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ $1670.00$ $m^2$ Plastic paints for interior sellings (smooth American Texture) $m^2$ $1670.00$ $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ $1670.00$ $m^2$ Plastic paints for interior sellings (smooth American Texture) $m^2$ $1670.00$ $m^2$ Aluminum windows $m^2$ $170.00$ $m^2$ $170.00$ Plastic paints for the site (4m high with 125 wat/220 volt lamp)No. $271.60$ $p_1$ Innorescent lighting fixture, (2x40 watt) with reflectorNo. $277.50$ $p_2$ Lamp-post for the site (4m high with 125 wat/220 volt lamp)No. $271.67$ $p_2$ Switch, AC. window type (2x30 Amps)No. $No.1.00n_0Main distribution panelboardNo.$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16  | Plastic weather-resistant paints                                             | m²             | 6550.00                 | 30.83       | 201936.50    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2   | White glazed ceramic tiles                                                   | n2             | 910.00                  | 62.50       | 56875.00     |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18  | Insulator laver for moisture                                                 | m²             | 1850.00                 | 35.83       | 66285.50     |
| Thermal insulation, vertical $m^2$ 1550.00 $m^2$ Plastic paints for interior walls (smooth American Texture) $m^2$ 2280.00 $m^2$ Plastic paints for interior cellings (smooth American Texture) $m^2$ 2380.00 $m^2$ Plastic paints for interior cellings (smooth American Texture) $m^2$ 349.00 $m^2$ Plastic paints for interior cellings (smooth American Texture) $m^2$ 349.00 $m^2$ Aluminum windows $m^2$ 170.00 $m^2$ 349.00Floorescent lighting fixture, (1x4 watt), with plastic cover celling mountedNo.291.00 $m^2$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo.291.00 $m^2$ $m^2$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $27.50$ $m^2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 61  | Thermal insulation. horizontal                                               | m²             | 1480.00                 | 28.33       | 41928.40     |
| Plastic paints for interior walls (smooth American Texture) $m^2$ 2280.00Plastic paints for interior cellings (smooth American Texture) $m^2$ 1670.00Plastic paints for interior cellings (smooth American Texture) $m^2$ 349.00Aluminum windows $m^2$ 170.00 $m^2$ Aluminum vindows $m^2$ 170.00 $m^2$ Hollow metallic doors $m^2$ 170.00 $m^2$ Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.291.00Plorescent lighting fixture, (2x40 watt) with 125 watt/220 volt lamp)No.277.60Plorescent lighting switch, Aups (2x30 Amps)No.277.60Runp-post for the site (4m high with 125 watt/220 volt lamp)No.277.60Switch, A/C. window type (2x30 Amps)No.1.00Main switchboardNo.1.001.00Main distribution panelboardNo.1.001.00Main distribution panelboardNo.1.001.00Main distribution panelboardNo.2.71.67No.Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )Mo.2.71.67No.Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )No.2.71.67No.A/C unit windows type (cool/heat 1800 BUT/h,KW)No.80.00No.Drinking water cooler (tank type)No.10.00No.Drinking water cooler (tank type)No.10.00No.A/T hafter tooler (tank type)No.10.00No.A/T hafter tooler (tank type)No. <td>202</td> <td>Thermal insulation. vertical</td> <td>n2</td> <td>1550,00</td> <td>21.67</td> <td>33588.50</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 202 | Thermal insulation. vertical                                                 | n2             | 1550,00                 | 21.67       | 33588.50     |
| Plastic paints for interior cellings (smooth American Texture) $m^2$ $1670.00$ Aluminum windows $m^2$ $349.00$ Aluminum windows $m^2$ $349.00$ Hollow metallic doors $m^2$ $170.00$ Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted $No.$ $103.00$ Fluorescent lighting fixture, (2x40 watt) with reflector $No.$ $291.00$ Enup-post for the site (4m high with 125 watt/220 volt lamp) $No.$ $27.50$ Lamp-post for the site (4m high with 125 watt/220 volt lamp) $No.$ $27.50$ Switch, A/C. window type (2x30 Amps) $No.$ $No.$ $27.50$ Main switchboard, school building $No.$ $10.00$ $1.00$ Main switchboard school building $No.$ $10.00$ $1.00$ Main distribution panelboard $No.$ $No.$ $271.67$ $No.$ Reinforced thermoplastic cable (size $3x185x95 mm^2)$ $No.$ $No.$ $271.67$ $No.$ A/C unit windows type (cool/heat 1800 BUT/h, KW) $No.$ $80.00$ $No.$ $271.67$ $No.$ Drinking water cooler (tank type) $No.$ $No.$ $No.$ $10.00$ $No.$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3   | Plastic naints for interior walls (smooth American Texture)                  | в <sup>3</sup> | 2280.00                 | 27.50       | 62700.00     |
| Aluminum windows         m²         349.00         m²         349.00         m²         170.00         m²         100         m²                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 52  | Plastic naints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 1670.00                 | 27.50       | 45925.00     |
| Hollow metallic doors $m^2$ 170.00 $m^2$ Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.103.00 $m^2$ Fluorescent lighting fixture, (2x40 watt) with reflectorNo. $291.00$ $m^2$ Interpost for the site (4m high with 125 watt/220 volt lamp)No. $271.50$ $m^2$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)No. $271.60$ $m^2$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)No. $271.60$ $m^2$ Switch, A/C. window type (2x30 Amps)No. $10.00$ $m^2$ $275.00$ $m^2$ Switch, and (15 Amps/127 volt)No.No. $1.00$ $m^2$ $271.67$ $m^2$ Main switchboard, school buildingNo. $m^2$ $271.67$ $m^2$ $271.67$ $m^2$ Nain distribution panelboardNo.No. $1.00$ $m^2$ $275.00$ $m^2$ No unidows type (cool/heat 1800 BUT/h,KW)No.No. $80.00$ $m^2$ $275.00$ $m^2$ A/C unit windows type (cool/heat 1800 BUT/h,KW)No.No. $80.00$ $m^2$ $275.00$ $m^2$ Drinking water cooler (tank type)Drinking water cooler (tank type)No. $10.00$ $m^2$ $10.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23  | Aluminum windows                                                             | m²             | 349.00                  | 458.33      | 159957.17    |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.103.00Fluorescent lighting fixture, (2x40 watt) with reflectorNo.291.00I-amp-post for the site (4m high with 125 watt/220 volt lamp)No.27.50Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.27.50Switch, A/C. window type (2x30 Amps)No.141.00Switch avectobard, school buildingNo.1.00Main switchboard, school buildingNo.1.00Main switchboard school buildingNo.1.00Main distribution panelboardNo.1.00Thermoplastic cable (size 3x185x95 mm²)No.1.00Reinforced thermoplastic cable (size 30x240x120mm²)m271.67A/C unit windows type (cool/heat 1800 BUT/h,KW)No.82.00A/C unit windows type (scool/heat 1800 BUT/h,KW)No.82.00Drinking water cooler (tank type)No.10.00Drinking water cooler (tank type)No.10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24  | Hollow metallic doors                                                        | m²             | 170.00                  | 550.00      | 93500.00     |
| Fluorescent lighting fixture, (2x40 watt) with reflectorNo.291.00Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.27.50Switch, A/C. window type (2x30 Amps)No.27.50Switch, A/C. window type (2x30 Amps)No.82.00Switch awitch for the site (4m high with 125 watt/220 volt lamp)No.21.00Switch, A/C. window type (2x30 Amps)No.141.00Main switchboard, school buildingNo.1.00Main switchboardNo.1.00Main distribution panelboardNo.1.00Thermoplastic cable (size 3x185x95 mm²)No.1.00Reinforced thermoplastic cable (size 30x240x120mm²)m255.00A/C unit windows type (cool/heat 1800 BUT/h,KW)No.82.00A/C unit windows type (scool/heat 1800 BUT/h,KW)No.80.00Drinking water cooler (tank type)No.10.00Drinking water cooler (tank type)No.10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 25  | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00                  | 250.00      | 25750.00     |
| Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.27.50Switch, A/C. window type (2x30 Amps)No.27.50Switch, A/C. window type (2x30 Amps)No.141.00Lighting switch (15 Amps/127 volt)No.141.00Main switchboard, school buildingNo.1.00Main switchboardNo.1.00Main distribution panelboardNo.1.00Thermoplastic cable (size 3x185x95 mm²)m271.67Reinforced thermoplastic cable (size 30x240x120mm²)m275.00A/C unit windows type (cool/heat 1800 BUT/h,KW)No.82.00A/C unit windows type (cool/heat 1800 BUT/h,KW)No.82.00Drinking water cooler (tank type)No.10.00Drinking water cooler (tank type)A/C unit windows type (cool/heat 1800 BUT/h,KW)A/C unit windows type (cool/heat 1800 BUT/h,KW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36  | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                  | 283.33      | 82449.03     |
| Switch, A/C. window type (2x30 Amps)No.82.0082.00Lighting switch (15 Amps/127 volt)No.141.00141.00Main switchboard, school buildingNo.1.001.00Main distribution panelboardNo.1.001.00Thermoplastic cable (size 3x185x95 mm²)No.1.001.00Reinforced thermoplastic cable (size 3x185x95 mm²)m271.67mA/C unit windows type (cool/heat 1800 BUT/h,KW)No.82.00No.82.00A/C unit windows type (cool/heat 1800 BUT/h,KW)No.80.0010.00Drinking water cooler (tank type)The Sum of The Sum of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27  | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 27.50                   | 900.00      | 24750.00     |
| Lighting switch(15 Amps/127 volt)No.141.00Main switchboard, school buildingNo.1.00Main distribution panelboardNo.1.00Main distribution panelboardNo.1.00Main distribution panelboardNo.1.00Main distribution panelboardNo.271.67Thermoplastic cable (size 3x185x95 mm²)m271.67Reinforced thermoplastic cable (size 30x240x120mm²)m255.00A/C unit windows type (cool/heat 1800 BUT/h,KW)No.82.00A/C unit windows type (cool/heat 1800 BUT/h,KW)No.80.00Drinking water cooler (tank type)No.10.00Drinking water cooler (tank type)A/C unit windows type (cool/heat 1800 BUT/h,KW)A/C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 28  | Switch. A/C. window type (2x30 Amps)                                         | No.            | 82.00                   | 200.00      | 16400.00     |
| Main switchboard, school building       No.       1.00       1.00         Main distribution panelboard       No.       1.00       1.00         Main distribution panelboard       No.       1.00       1.00         Thermoplastic cable (size 3x185x95 mm²)       m       271.67       m         Reinforced thermoplastic cable (size 30x240x120mm²)       m       255.00       82.00         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.00       80.00         Celling air fan {dia 142cm (56in)}       No.       80.00       10.00         Drinking water cooler (tank type)       The Sum of The Sum of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 29  | Lighting switch (15 Amos/127 volt)                                           | No.            | 141.00                  | 133.33      | 18799.53     |
| Main distribution panelboard     No.     1.00       Thermoplastic cable (size 3x185x95 mm²)     m     271.67       Thermoplastic cable (size 3x240x120mm²)     m     271.67       Reinforced thermoplastic cable (size 30x240x120mm²)     m     255.00       A/C unit windows type (cool/heat 1800 BUT/h,KW)     m     255.00       A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.00       Ceiling air fan {dia 142cm (56in)}     No.     10.00       Drinking water cooler (tank type)     A/C     A/C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8   | Main switchboard, school building                                            | No.            | 1.00                    | 26666.67    | 26666.67     |
| Thermoplastic cable (size 3x185x95 mm²)     m     271.67       Reinforced thermoplastic cable (size 30x240x120mm²)     m     275.00       A/C unit windows type (cool/heat 1800 BUT/h,KW)     mo     255.00       A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.00       Ceiling air fan {dia 142cm (56in)}     No.     80.00       Drinking water cooler (tank type)     No.     10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31  | Main distribution panelboard                                                 | No.            | 1.00                    | 29166.67    | 29166.67     |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )       m       255.00         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.00         Celling air fan {dia 142cm (56in)}       No.       80.00         Drinking water cooler (tank type)       No.       10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 33  | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 271.67                  | 133.33      | 36221.76     |
| A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.00       Ceiling air fan {dia 142cm (56in)}     No.     80.00       Drinking water cooler (tank type)     No.     10.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 33  | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | u              | 255.00                  | 181.08      | 46175.40     |
| Ceiling air fan {dia 142cm (56in)}     80.00       Drinking water cooler (tank type)     No.       The Sum of The Total Prior                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 34  | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                   | 1666.67     | 136666.94    |
| Drinking water cooler (tank type) The Sum of The Total Principle of The Total Principle of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35  |                                                                              | No.            | 80.00                   | 308.33      | 24666.40     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36  | Drinking water cooler (tank type)                                            | No.            | 10.00                   | 1833.33     | 18333.30     |
| of The Index (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                                                              |                | The Sum of The T        | otal Prices |              |
| A THY THINK TO THE TANK THE TA |     |                                                                              |                | of The Index Items (SR) | s (SR)      | 3,049,834.39 |

# Table 4.24Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - RiyadhYear 1992

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|        |                                             |                | The Average | The Average | The Total |
|--------|---------------------------------------------|----------------|-------------|-------------|-----------|
| 78     | Work Items                                  | Unit           | of          | of the Unit | Price     |
| :      |                                             |                | Quantities  | Price (SR)  | (SR)      |
| -      | Excavation work                             | Ē              | 2258.33     | 29.00       | 65491.57  |
| 10     | Backfilline work                            | en3            | 2275.00     | 17.20       | 39130,00  |
|        | Excavation work for the foundation          | m3             | 1566.67     | 29.00       | 45433,43  |
| 4      | Plain concrete work under the foundation    | Ē              | 250.00      | 207.40      | 51850,00  |
| ~<br>V | Reinforced concrete work for the foundation | °.E            | 585.83      | 640.00      | 374931.20 |
| 9      | Natural crushed stone sub-base coarse       | m <sup>2</sup> | 455.00      | 30.60       | 13923.00  |
| 2      | Building made from Calcium Silicate Bricks  | m <sup>2</sup> | 661.67      | 75.60       | 50022.25  |
| ∞      | Concrete pavers (40x40x5cm)                 | m²             | 3390.00     | 45.60       | 154584.00 |
| 6      | Plain concrete with 10 cm thickness         | m²             | 1640.00     | 22.80       | 37392.00  |
| 01     | T                                           | Ē              | 1040.00     | 675.00      | 702000.00 |
| Ξ      | CMU walls with 15 cm thickness              | m²             | 1695.00     | 40,40       | 68478.00  |
| 12     |                                             | m²             | 2460.00     | 46.80       | 115128.00 |
| 13     | 1                                           | m <sup>2</sup> | 2580.00     | 41.60       | 107328.00 |
| 4      |                                             | m²             | 1500.00     | 27.60       | 41400,00  |
| 15     |                                             | Ħ              | 196.00      | 162.00      | 31752.00  |
|        |                                             |                |             |             | Continued |

| continued |
|-----------|
| 4.24      |
| Table     |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | The Among                                              | The Assessed | The Total    |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------|--------------|--------------|
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | THE WARIAGE                                            | THE WAR AR   |              |
| 7                                             | . Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit             | of                                                     | of the Unit  | Price        |
| <b>t</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | Quantities                                             | Price (SR)   | (SR)         |
| 1                                             | Dlockio unauthar radictant nainte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | щ <sup>2</sup>   | 6550.00                                                | 21.00        | 137550.00    |
| 2                                             | Flassic Weatter-resistant parties<br>Withies alored coromic files                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n2               | 910.00                                                 | 60.40        | 54964.00     |
| : :                                           | Muite Brazeu versumen unes<br>Tranifator fause for molishire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | с<br>щ           | 1850.00                                                | 36.40        | 67340.00     |
| 9                                             | uisuator layer for increase.<br>Themend incrutation herrizental                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | г <mark>н</mark> | 1480,00                                                | 32.80        | 48544.00     |
| 2                                             | LITELITEL INSULATION, NOLLADITAL<br>Thermal fisculation vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | д<br>Т           | 1550.00                                                | 24.60        | 38130.00     |
| 3                                             | l Included Insummonty, restriction<br>Discritic maintee for interior walls (semonth American Texture)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | с<br>ш           | 2280.00                                                | 18.20        | 41496.00     |
| 1                                             | r tasur paurus tor interior many converts merican Texture)<br>Interio metator for interior calilings (smooth American Texture)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ۲<br>۳           | 1670.00                                                | 18.40        | 30728.00     |
| 77                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | с<br>Е           | 349.00                                                 | 376.00       | 131224.00    |
| 3 2                                           | Aluminimi Minows<br>Italiau matellia daare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2<br>H           | 170.00                                                 | 520.00       | 88400.00     |
| 5 Z                                           | Invessional lighting fixture (1vd watt) with plastic cover celling mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | .o<br>No         | 103.00                                                 | 246.00       | 25338.00     |
|                                               | Fructescent againing around (Arthur Oxfor Watt) with reflector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No.              | 291.00                                                 | 288.60       | 83982.60     |
| 3 5                                           | r autoroscente rightming randors, you with 125 watt/220 volt lamp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.              | 27.50                                                  | 1250.00      | 34375.00     |
| ۶<br>¢                                        | Surfich A/O window type (2x30 Ams)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.              | 82.00                                                  | 254.00       | 20828.00     |
|                                               | 1 intrine switch (15 Anne(127 volt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No               | 141.00                                                 | 120.80       | 17032.80     |
| <u>, , , , , , , , , , , , , , , , , , , </u> | Ligurus switch (12 runpa 12) voic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No               | 1.00                                                   | 17600.00     | 17600.00     |
|                                               | Main distribution panelboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No.              | 1.00                                                   | 21400.00     | 21400.00     |
| 5                                             | Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | E                | 271.67                                                 | 118.60       | 32220.06     |
| 3 6                                           | Painforced thermonlastic cahle (size 30x240x120mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E                | 255,00                                                 | 171.00       | 43605.00     |
| 6 5                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.              | 82.00                                                  | 1656.00      | 135792.00    |
| 20                                            | fourth matching the vocation of the second sec                                                                                                                                                                                                                                             | ov               | 80.00                                                  | 311.40       | 24912.00     |
| 25                                            | Deinbing un taut von er tank type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No               | 10.00                                                  | 2800,00      | 28000.00     |
| R                                             | A To sum I seems some some for the second se |                  | The Sum of The Total Prices<br>of The Index Items (SR) | fotal Prices | 3.022.304.91 |
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | TITLE THAT THE TO                                      |              |              |

#### Table 4.25 Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items Educational Area - Riyadh Year 1993

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|    |                                                  |                | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
|    |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | Ē              | 2258.33     | 25.00       | 56458.25  |
| 2  | Backfilling work                                 | г<br>ш         | 2275.00     | 22.17       | 50436.75  |
|    | Excavation work for the foundation               | m <sup>3</sup> | 1566.67     | 47.00       | 73633.49  |
| 4  | Plain concrete work under the foundation         | ۳<br>۳         | 250.00      | 244.17      | 61042.50  |
| S  | Reinforced concrete work for the foundation      | ٩<br>٣         | 585.83      | 785.83      | 460362.79 |
| 9  | Natural crushed stone sub-base coarse            | m²             | 455.00      | 58.00       | 26390.00  |
| -  | Building made from Calcium Silicate Bricks       | m²             | 661.67      | 152.50      | 100904.68 |
| ∞  | Concrete pavers (40x40x5cm)                      | m²             | 3390.00     | 46.50       | 157635.00 |
| 6  | Plain concrete with 10 cm thickness              | m²             | 1640.00     | 21.83       | 35801.20  |
| 01 | Reinforced concrete for the whole superstrucutre | е<br>Ш         | 1040.00     | 862.17      | 896656.80 |
| Ξ  | CMU walls with 15 cm thickness                   | m²             | 1695.00     | 36.00       | 61020,00  |
| 12 | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 40.00       | 98400,00  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 2580.00     | 48.17       | 124278.60 |
| 14 | 14 Floor tiling                                  | m²             | 1500.00     | 32.17       | 48255.00  |
| 15 | 15 Natural marble of stairs                      | E              | 196.00      | 175.00      | 34300.00  |
|    |                                                  |                | -           |             | Continued |

| ontinued |
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| 4.25 c   |
| Table    |

|        |                                                                              |                  | The Average                      | The Average                             | The Total    |   |
|--------|------------------------------------------------------------------------------|------------------|----------------------------------|-----------------------------------------|--------------|---|
| 7#     | Work Items                                                                   | Unit             | of                               | of the Unit                             | Price        |   |
| 2      |                                                                              |                  | Quantities                       | Price (SR)                              | (SR)         |   |
| 16     | Plastic weather-resistant paints                                             | щ2               | 6550.00                          | 18.50                                   | 121175.00    |   |
| 2      | White plazed ceramic tiles                                                   | m²               | 910.00                           | 66.17                                   | 60214.70     |   |
| e<br>E | Trsulator laver for moisture                                                 | Ē                | 1850.00                          | 36.83                                   | 68135,50     |   |
| 61     | Thermal insulation. horizontal                                               | ц,               | 1480.00                          | 31.33                                   | 46368.40     |   |
| 202    | Thermal insulation. vertical                                                 | ц <sup>2</sup> н | 1550.00                          | 25.17                                   | 39013.50     |   |
| 2      | Plastic naints for interior walls (smooth American Texture)                  | m²               | 2280.00                          | 16.67                                   | 38007.60     |   |
| 30     | Plastic paints for interior cellings (smooth American Texture)               | ۲ <mark>ط</mark> | 1670.00                          | 16.67                                   | 27838.90     |   |
| 23     | Aluminum windows                                                             | m²               | 349.00                           | 399.17                                  | 139310.33    |   |
| 24     | Hollow metallic doors                                                        | m <sup>2</sup>   | 170.00                           | 658.33                                  | 111916.10    |   |
| 25     | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.              | 103.00                           | 244.17                                  | 25149.51     |   |
| 26     | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.              | 291.00                           | 335.00                                  | 97485.00     |   |
| 27     | I amp-post for the site (4m high with 125 watt/220 volt lamp)                | No.              | 27.50                            | 1470.00                                 | 40425.00     |   |
| 28     |                                                                              | No.              | 82.00                            | 211.67                                  | 17356.94     |   |
| 50     | I fehting switch (15 Amos/127 volt)                                          | No.              | 141.00                           | 167,50                                  | 23617.50     |   |
| 30     | Main switchboard, school building                                            | No.              | 1.00                             | 26333.33                                | 26333.33     | Т |
| 31     | Main distribution panelboard                                                 | No.              | 1.00                             | 30500.00                                | 30500.00     | 1 |
| 32     | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ                | 271.67                           | 138.83                                  | 37715.95     |   |
| 8      | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | ٤                | 255.00                           | 198.67                                  | 50660.85     |   |
| 34     | A/C unit windows tyre (cool/heat 1800 BUT/h,KW)                              | No.              | 82.00                            | 1678.33                                 | 137623.06    |   |
| 56     | Ceiling air fan {dia 142cm (56in)}                                           | No.              | 80.00                            | 358.33                                  | 28666.40     |   |
| 36     | Drinking water cooler (tank type)                                            | No.              | 10.00                            | 3083.33                                 | 30833.30     |   |
|        |                                                                              |                  | The Sum of The Total Prices      | otal Prices                             | 3 403 071 07 |   |
|        |                                                                              |                  | AC) SMOIL TO THE AND THE MAIL TO | ()) () () () () () () () () () () () () | 24024241.74  | ٦ |
|        |                                                                              |                  |                                  |                                         |              |   |

## Table 4.26Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - RiyadhYear 1994

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|                                         |                                                                              |                | The Average  | The Average | The Total |
|-----------------------------------------|------------------------------------------------------------------------------|----------------|--------------|-------------|-----------|
| :                                       | Word: Home                                                                   | IInit          | LIIC AVUIAGU | of the Unit | Price     |
| *                                       |                                                                              |                | Ouantities   | Price (SR)  | (SR)      |
| -                                       | Broompton work                                                               | ĨE             | 2258.33      | 25.50       | 57587.42  |
|                                         | EAKEAVELIONI WOLA<br>Bookfelling work                                        | Ē              | 2275.00      | 20.67       | 47024.25  |
| 1 6                                     | Province the four the foundation                                             | ſ.             | 1566.67      | 43.00       | 67366.81  |
|                                         | Extertation more to use commune.<br>Diain concrete work under the foundation | Ê              | 250.00       | 234.17      | 58542.50  |
| "                                       | I duit votice to the most for the foundation                                 | Ē              | 585,83       | 671.67      | 393484.44 |
| , <b>v</b>                              | Netural crushed stone sub-hase coarse                                        | т <sup>7</sup> | 455.00       | 89.17       | 40572.35  |
| ~                                       | Ruilding made from Calcium Silicate Bricks                                   | 2<br>E         | 661.67       | 108.33      | 71678.71  |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                                                                              | m²             | 3390.00      | 38.33       | 129938.70 |
|                                         | Dain concrete with 10 cm thickness                                           | ۳,             | 1640.00      | 38.17       | 62598.80  |
| ۱<br>۲                                  | I rain forced concrete for the whole superstructure                          | ٦              | 1040.00      | 825.00      | 858000.00 |
| 2 =                                     | CMUI walls with 15 cm thickness                                              | ۳              | 1695.00      | 43.33       | 73444.35  |
| : 2                                     | CMII walls with 20 cm thickness                                              | m <sup>2</sup> | 2460.00      | 49.17       | 120958.20 |
| <u>-</u>                                | Gard mosaic tiles (size 30x30m)                                              | ۳<br>۳         | 2580.00      | 48.83       | 125981.40 |
|                                         | Rhor filing                                                                  | 2<br>M         | 1500.00      | 33.50       | 50250.00  |
| <u> </u>                                | 15 Natural marble of stairs                                                  | ٤              | 196.00       | 182.50      | 35770.00  |
| 2                                       |                                                                              |                |              |             | Continued |

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|         |                                                                             |                  | The Average                                            | The Average          | The Total    |
|---------|-----------------------------------------------------------------------------|------------------|--------------------------------------------------------|----------------------|--------------|
| #       | Work Items                                                                  | Unit             | of                                                     | of the Unit          | Price        |
| :       |                                                                             |                  | Quantities                                             | Price (SR)           | (SR)         |
| 16      | Dlastic weather-resistant naints                                            | г <mark>е</mark> | 6550.00                                                | 19.67                | 128838.50    |
| 21      | White plazed ceramic tiles                                                  | m²               | 910.00                                                 | 70.83                | 64455.30     |
| 18      | Trendator laver for moisture                                                | m²               | 1850.00                                                | 48.33                | 89410.50     |
| <u></u> | Thermal insulation horizontal                                               | m²               | 1480.00                                                | 42.50                | 62900.00     |
| į       | Thermal insulation. vertical                                                | m2               | 1550.00                                                | 26.17                | 40563.50     |
| 215     | Plastic naints for interior walls (smooth American Texture)                 | m <sup>2</sup>   | 2280.00                                                | 19.50                | 44460.00     |
| : 5     | Dlastic paints for interior ceilings (smooth American Texture)              | г<br>Ш           | 1670.00                                                | 22.17                | 37023.90     |
| 3 2     | Aluminum windows                                                            | г <mark>е</mark> | 349.00                                                 | 480.83               | 167809.67    |
| 24      | Lathow metallic doors                                                       | л<br>Ш           | 170.00                                                 | 825.00               | 140250.00    |
| 22      | Finnescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | °2               | 103.00                                                 | 272.50               | 28067.50     |
| 26      |                                                                             | No               | 291.00                                                 | 342.00               | 99522.00     |
| 27      | T. amp-nost for the site (4m high with 125 watt/220 volt lamp)              | No.              | 27.50                                                  | 1566.67              | 43083.43     |
| 28      | Switch, A/C, window type (2x30 Amps)                                        | No.              | 82.00                                                  | 297.50               | 24395.00     |
| 29      | T johting switch (15 Amps/127 volt)                                         | No.              | 141.00                                                 | 249.17               | 35132.97     |
| )<br>6  | Main switchboard, school building                                           | No.              | 1.00                                                   | 37766.67             | 37766.67     |
| 31      | Main distribution panelboard                                                | No.              | 1.00                                                   | 46233.33             | 46233.33     |
| 32      | Thermoolastic cable (size 3x185x95 mm <sup>2</sup> )                        | ៩                | 271.67                                                 | 120.50               | 32736.24     |
| 33      | Reinforced thermonlastic cable (size 30x240x120mm <sup>2</sup> )            | E                | 255.00                                                 | 185.50               | 47302.50     |
| 34      | A/C unit windows type (cool/heat 1800 BUT/h.KW)                             | No.              | 82.00                                                  | 1916.67              | 157166.94    |
| 35      | Ceiling air fan (dia 142cm (56in))                                          | No               | 80.00                                                  | 478.33               | 38266.40     |
| 8       | Drinking water cooler (tank type)                                           | No               | 10.00                                                  | 2483.33              | 24833.30     |
|         |                                                                             |                  | The Sum of The Total Prices<br>of The Index Items (SR) | fotal Prices<br>(SR) | 3.583.415.56 |
|         |                                                                             |                  |                                                        |                      |              |

# Table 4.27Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - RiyadhYear 1995

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|       |                                                  |                 | The Average | The Average | The Total |
|-------|--------------------------------------------------|-----------------|-------------|-------------|-----------|
| 7#    | Work Items                                       | Unit            | of          | of the Unit | Price     |
| :     |                                                  |                 | Quantities  | Price (SR)  | (SR)      |
| -     | Reavation work                                   | °m              | 2258.33     | 43.00       | 97108.19  |
| •     | Backfilling work                                 | °.              | 2275.00     | 19.00       | 43225.00  |
| "     | Receivation work for the foundation              | ۳³              | 1566.67     | 25.00       | 39166.75  |
| 4     | Plain concrete work under the foundation         | ru <sup>3</sup> | 250.00      | 165.00      | 41250.00  |
| ·   ~ | Reinforced concrete work for the foundation      | em3             | 585.83      | 610.00      | 357356.30 |
| 0     | Natural crushed stone sub-base coarse            | m <sup>2</sup>  | 455.00      | 200.00      | 91000,00  |
| -     | Building made from Calcium Silicate Bricks       | m²              | 661.67      | 300.00      | 198501.00 |
| ~     |                                                  | m²              | 3390.00     | 10.00       | 33900,00  |
| 6     | Plain concrete with 10 cm thickness              | m²              | 1640.00     | 100.00      | 164000,00 |
| 10    | Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 1040.00     | 720.00      | 748800.00 |
| =     |                                                  | m²              | 1695.00     | 65.00       | 110175.00 |
| 12    | CMU walls with 20 cm thickness                   | m <sup>2</sup>  | 2460.00     | 65.00       | 159900.00 |
|       | Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup>  | 2580.00     | 45.00       | 116100.00 |
|       | Floor tiling                                     | m²              | 1500.00     | 30.00       | 45000.00  |
| 15    | Natural marble of stairs                         | E               | 196.00      | 175.00      | 34300.00  |
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| #         Work Items         Unit         of         of the Unit         Price (SR)         (SR)           16         Plastic wenther-resistant paints         m'         6550.00         17.00         113350.00           17         White glasted certantic tites         m'         6550.00         17.00         113350.00           18         White glasted certantic tites         m'         6550.00         750.00         7400.00           19         Phenel insulation, vertical         m'         1880.00         7400.00         7400.00           20         Plastic paints for interior ceiling (mooth American Texture)         m'         1880.00         7400.00         7400.00           21         Plastic paints for interior valls (smooth American Texture)         m'         1850.00         138750.00         7400.00           21         Plastic paints for interior ceiling (smooth American Texture)         m'         2780.00         24300.00         24300.00           23         Atuntimu windows         Flourescent lighting facure. (2xel) with plastic cover ceiling mounted         No.         279.00         24300.00         24300.00           24         Flourescent lighting facure. (2xel) with valuet cover ceiling mounted         No.         279.00         24300.00         24300.00      2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                              |                  | The Average      | The Average | The Total    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------|------------------|------------------|-------------|--------------|
| Plastic wenther-resistant paints $\mu^2$ QuantifiesPrice (SR)Plastic wenther-resistant paints $m^2$ 6550.0017.00White glazed ceranic tiles $m^2$ 910.0035.00Insulator layer for moisture $m^2$ 1850.0017.00Insulator layer for moisture $m^2$ 1850.0017.00Insulator layer for moisture $m^2$ 1850.0013.00Insulator layer for moisture $m^2$ 1550.0012.00Plastic paints for interior walls (smooth American Texture) $m^2$ 1550.0012.00Plastic paints for interior walls (smooth American Texture) $m^2$ 1550.0012.00Plastic paints for interior walls (smooth American Texture) $m^2$ 1550.0012.00Plastic paints for interior walls (smooth American Texture) $m^2$ 349.00700.00Plastic paints for interior walls (smooth American Texture) $m^2$ 1570.0013.00Plastic paints for interior walls (smooth American Texture) $m^2$ 349.00700.00Aluminum windows $m^2$ 1670.0013.00270.00Aluminum windows $m^2$ 1670.0013.00270.00Aluminum windows $m^2$ 1670.00130.00270.00Aluminum windows $m^2$ 1670.00130.0010.00Aluminum windows $m^2$ 1670.0010.00270.00Aluminum windows $m^2$ $m^2$ 275.0010.00Intercore distribution $m^2$ $m^2$ 275.0010.00Interc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7#     | Work Items                                                                   | Unit             | of               | of the Unit | Price        |
| Plastic weather-resistant paints         m²         6550.00         17.00           White glazed ceramic tiles         m²         910.00         35.00           Insulator layer for moisture         m²         1850.00         155.00           Insulator, vertical         m²         155.00         50.00           Thermal insulation, vertical         m²         155.00         50.00           Thermal insulation, vertical         m²         155.00         40.00           Thermal insulation, vertical         m²         155.00         40.00           Thermal insulation, vertical         m²         155.00         12.00           Thermal insulation, vertical         m²         2280.00         13.00           Plastic paints for interior valls (smoth American Texture)         m²         2380.00         13.00           Plastic paints for interior valls (smoth American Texture)         m²         2380.00         13.00           Aluminum windows         m²         170.00         13.00         13.00           Hollow metallic doris         m²         349.00         700.00         13.00           Pluorescent lighting fixture, (1s4 watt), with reflector         No.         271.00         273.00         270.00           Fluorescent lighting fixture, (2s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | :      |                                                                              |                  | Quantities       | Price (SR)  | (SR)         |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16     | Plastic weather-resistant paints                                             | л <sup>2</sup> н | 6550.00          | 17.00       | 111350.00    |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2      | White plazed ceramic tiles                                                   | m²               | 910.00           | 35.00       | 31850.00     |
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| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6      | Thermal insulation. horizontal                                               | m²               | 1480.00          | 50.00       | 74000,00     |
| $eq:linearized_linearized$ | ,<br>V | Thermal insulation, vertical                                                 | m²               | 1550.00          | 40.00       | 62000,00     |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | IPlastic naints for interior walls (smooth American Texture)                 | m <sup>2</sup>   | 2280.00          | 12.00       | 27360,00     |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2      | Plastic maints for interior ceilings (smooth American Texture)               | m2               | 1670.00          | 13.00       | 21710.00     |
| Hollow metallic doors         m²         170.00         700.00         700.00           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiting mounted         No.         103.00         200.00         200.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.00         270.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12     | Aluminum windows                                                             | m <sup>2</sup>   | 349.00           | 700.00      | 244300,00    |
| $\begin{tabular}{ l                                   $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24     | Hollow metallic doors                                                        | m <sup>2</sup>   | 170.00           | 700.00      | 119000.00    |
| Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         270.00           Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No.         271.50         910.00           Switch, A/C. window type (2x30 Amps)         No.         82.00         300.00         910.00           Switch, A/C. window type (2x30 Amps)         No.         82.00         300.00         910.00           Isplitting switch (15 Amps/127 volt)         No.         141.00         150.00         910.00           Main switchboard, school building         No.         141.00         82.00         910.00           Main distribution panelboard         No.         1.00         45000.00         100.00           Thermoplastic cable (size 3x185x95 mm²)         m         271.67         80.00         110.00           Reinforced thermoplastic cable (size 30x240x120mm²)         m         275.00         110.00         1300.00           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         82.00         1300.00         1300.00           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         82.00         1300.00         1400.00           Ceiling air fan (dia 142cm (56in))         No.         80.00         1400.00         1400.00           Drinking wa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25     | Finorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.              | 103.00           | 200.00      | 20600.00     |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 26     | Fluorescent lighting fixture. (2x40 watt) with reflector                     | Ňo.              | 291.00           | 270.00      | 78570.00     |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27     | I amp-post for the site (4m high with 125 watt/220 volt lamp)                | No.              | 27.50            | 910.00      | 25025.00     |
| Lighting switch (15 Amps/127 volt)       No.       141.00       150.00         Main switchboard, school building       No.       1.00       50000.00         Main distribution panelboard       No.       1.00       50000.00         Main distribution panelboard       No.       1.00       50000.00         Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )       m       271.67       80.00         Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )       m       255.00       110.00         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.00       1300.00         Celling air fan {dia 142cm (56in)}       No.       No.       80.00       400.00         Drinking water coler (tank type)       No.       No.       10.00       1400.00         Drinking water coler (tank type)       No.       No.       10.00       1400.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 28     | Switch. A/C. window type (2x30 Amps)                                         | No.              | 82.00            | 300.00      | 24600.00     |
| Main switchboard, school building         No.         1.00         50000.00           Main distribution panelboard         No.         1.00         45000.00           Main distribution panelboard         No.         1.00         45000.00           Thermoplastic cable (size $3x185x95  mm^3$ )         m $271.67$ $80.00$ Reinforced thermoplastic cable (size $30x240x120mm^3$ )         m $255.00$ $110.00$ A/C unit windows type (cool/heat $1800  BUT/h, KW$ )         No. $82.00$ $1300.00$ Ceilling air fan {dia $142cm$ (56in)}         No.         No. $80.00$ $400.00$ Drinking water cooler (tank type)         No.         No. $10.00$ $1400.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 29     | Lighting switch (15 Amos/127 volt)                                           | No.              | 141.00           | 150.00      | 21150.00     |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30     | Main switchboard, school building                                            | No.              | 1.00             | 50000.00    | 50000.00     |
| $\begin{tabular}{ l l l l l l l l l l l l l l l l l l l$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 31     | Main distribution panelboard                                                 | No.              | 1.00             | 45000.00    | 45000,00     |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         255.00         110.00           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         82.00         1300.00           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         82.00         1300.00           Ceiling air fan {dia 142cm (56in)}         No.         80.00         400.00           Drinking water cooler (tank type)         No.         10.00         1400.00           After to be an exter cooler (tank type)         No.         10.00         1400.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32     | 85x95                                                                        | Ħ                | 271.67           | 80.00       | 21733.60     |
| A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.00     1300.00       Ceiling air fan {dia 142cm (56in)}     No.     80.00     400.00       Drinking water cooler (tank type)     No.     10.00     1400.00   An of The Sum of The Total Prices of The Index (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 33     |                                                                              | Ħ                | 255.00           | 110.00      | 28050.00     |
| Ceiling air fan {dia 142cm (56in)}     No.     80.00     400.00       Drinking water cooler (tank type)     No.     10.00     1400.00       The Sum of The Sum of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 34     |                                                                              | No.              | 82.00            | 1300.00     | 106600,00    |
| Drinking water cooler (tank type) No. No. 10.00 1400.00 The Total Prices of The Long transform of The Long (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 35     |                                                                              | No.              | 80,00            | 400.00      | 32000.00     |
| The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 36     | Drinking water cooler (tank type)                                            | No.              | 10.00            | 1400.00     | 14000.00     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                              |                  | The Sum of The T | otal Prices | 1 677 110 BA |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                              |                  | UI TUG TUGEN AUT | (NG)        | 101004611060 |

### Table 4.28Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - JeddahYear 1990

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|          |                                                  |                | The Average | The Average | The Total |
|----------|--------------------------------------------------|----------------|-------------|-------------|-----------|
| 7#       | Work Items                                       | Unit           | of          | of the Unit | Price     |
| 2        |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -        | Ryceaustian work                                 | ۲<br>۳         | 1455.00     | 14.80       | 21534.00  |
| - ~      | Enderfalling work                                | ſщ             | 1875.00     | 12.83       | 24056.25  |
| 4 ~      | Reconstitution work for the foundation           | ۳.             | 1933.33     | 25.67       | 49628.58  |
|          | Diain concrete work under the foundation         | <b>^</b> =     | 299.17      | 223.17      | 66765.77  |
|          | Painforced concrete work for the foundation      | ۳<br>۳         | 575.00      | 683.33      | 392914.75 |
|          | Nutural crushed stone sub-base coarse            | r H            | 450.00      | 47.00       | 21150.00  |
| -        | Building made from Calcium Silicate Bricks       | m²             | 633.33      | 68.67       | 43490.77  |
| •        | Concrete navers (40x40x5cm)                      | m²             | 3108.33     | 56.00       | 174066.48 |
| •        | Plain concrete with 10 cm thickness              | m <sup>2</sup> | 1625.00     | 22.50       | 36562.50  |
| ,<br>E   | Reinforced concrete for the whole superstructure | Ē              | 1036.67     | 737.67      | 764720.36 |
| =        |                                                  | m <sup>2</sup> | 1682.50     | 38.17       | 64221.03  |
| 12       | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 43.67       | 107428.20 |
| <u>۳</u> | Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup> | 2580.00     | 55.50       | 143190.00 |
| 1        | Rhor tiline                                      | m²             | 1485.83     | 33.50       | 49775.31  |
|          | Natural marble of stairs                         | m              | 194.67      | 166.00      | 32315.22  |
|          |                                                  |                |             |             | Continued |

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|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| *  | Work Items                                                                   | Unit           | of                          | of the Unit | Price        |
|    |                                                                              |                | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m²             | 6528.33                     | 39,00       | 254604.87    |
| 17 | White glazed ceramic tiles                                                   | m <sup>2</sup> | 898.33                      | 53.50       | 48060,66     |
| 18 | Insulator laver for moisture                                                 | m²             | 1835.83                     | 31.17       | 57222.82     |
| 16 | Thermal insulation, horizontal                                               | m²             | 1466.67                     | 30.00       | 44000.10     |
| 50 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                     | 26.17       | 40563.50     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                     | 30.33       | 69152.40     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                     | 33.83       | 56496.10     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 348.17                      | 513.33      | 178726.11    |
| 24 | Hollow metallic doors                                                        | m²             | 170.00                      | 586.83      | 99761.10     |
| 25 | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 101.33                      | 257.83      | 26125.91     |
| 56 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 300.67      | 87494.97     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 26.17                       | 1827.83     | 47834.31     |
| 28 | Switch. A/C. window type (2x30 Amps)                                         | No.            | 81.33                       | 286.50      | 23301.05     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 137.83                      | 161.00      | 22190.63     |
| ő  | Main switchboard, school building                                            | No.            | 1.00                        | 25611.17    | 25611.17     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 29777.83    | 29777.83     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | u              | 260.00                      | 167.17      | 43464.20     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ              | 361.67                      | 215.50      | 77939.89     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.83                       | 1679.67     | 139127.07    |
| 35 | [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 79.33                       | 355,50      | 28201.82     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2755.50     | 27555.00     |
|    |                                                                              |                | The Sum of The Total Prices | otal Prices |              |
|    |                                                                              |                | of The Index Items (SR)     | (SR)        | 3,419,030.70 |
|    |                                                                              |                |                             |             |              |

# Table 4.29Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - JeddahYear 1991

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|    |                                                  |         | The Average | The Average | The Total |
|----|--------------------------------------------------|---------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit    | of          | of the Unit | Price     |
| :  |                                                  |         | Quantities  | Price (SR)  | (SR)      |
| -  | Excevation work                                  | ٣E      | 1455.00     | 12.17       | 17707.35  |
| 2  | Backfilling work                                 | em,     | 1875.00     | 18.33       | 34368.75  |
| 6  | Rxcavation work for the foundation               | ſ.      | 1933.33     | 26.67       | 51561.91  |
| 4  | Plain concrete work under the foundation         | en.     | 299.17      | 290.83      | 87007.61  |
| S  | Reinforced concrete work for the foundation      | fu<br>I | 575.00      | 675.00      | 388125.00 |
| 9  | Natural crushed stone sub-base coarse            | m²      | 450.00      | 60.83       | 27373.50  |
| 2  | Building made from Calcium Silicate Bricks       | m²      | 633.33      | 126.67      | 80223.91  |
| 8  | Concrete payers (40x40x5cm)                      | m²      | 3108.33     | 70.00       | 217583.10 |
| 6  | Plain concrete with 10 cm thickness              | m²      | 1625.00     | 19.17       | 31151.25  |
| 10 | Reinforced concrete for the whole superstrucutre | г<br>ш  | 1036.67     | 716.67      | 742950,29 |
| =  | CMU walls with 15 cm thickness                   | m²      | 1682.50     | 40.83       | 68696.48  |
| 12 | CMU walls with 20 cm thickness                   | m²      | 2460.00     | 45.00       | 110700.00 |
|    | Glazed mosaic tiles (size 30x30x3cm)             | m²      | 2580.00     | 56.67       | 146208.60 |
|    | Ploor tiling                                     | Ē       | 1485.83     | 34.17       | 50770.81  |
| 15 | 15 Natural marble of stairs                      | E       | 194.67      | 183.33      | 35688.85  |
|    |                                                  |         |             |             | Continued |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|----------------|--------------------|-------------|--------------|
| Plastic weather-resistant paints $\mathbf{m}^2$ $\mathbf{Quantities}$ $\mathbf{Price}(\mathbf{SR})$ Plastic weather-resistant paints $\mathbf{m}^2$ 6528.3340.83White glazed ceramic tiles $\mathbf{m}^2$ 6528.3340.83Insulator layer for moisture $\mathbf{m}^2$ 888.3363.83Insulator layer for moisture $\mathbf{m}^2$ 1835.8353.33Insulator layer for moisture $\mathbf{m}^2$ 1835.835.3.33Insulator layer for moisture $\mathbf{m}^2$ 156.6717.67Plastic paints for interior value (smooth American Texture) $\mathbf{m}^2$ 1550.0034.17Plastic paints for interior value (smooth American Texture) $\mathbf{m}^2$ 1670.0032.50Plastic paints for interior value (smooth American Texture) $\mathbf{m}^2$ 1670.0032.50Aluminum windows $\mathbf{m}^2$ 1570.0034.17345.00Hollow metallic doorsFluorescent lighting fixture (2x60 watt) with reflectorNo.221.00359.17Switch, AC. window type (2x30 Amps)No.No.221.00359.17Lamp-post for the site (4m high with 125 wat/220 volt lamp)No.201.01359.17Switch, AC. window type (2x30 Amps)No.217.83141.66.67116.67Lamp-post for the site (4m high with 125 wat/220 volt lamp)No.261.71166.67Lamp-post for the site (4m high with 125 wat/220 wolt lamp)No.217.03267.50Switch, AC. window type (2x30 Amps)No.101.33267.50Lighting switch (15 Amps/127 voll)No.21.73.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | #        | Work Items                                                                   | Unit           | of                 | of the Unit | Price        |
| Plastic weather-resistant pairles $m^2$ 6528.33         40.83         663.83         40.83           White glazed ceramic tiles $m^2$ 898.33         65.383         63.83         63.83         63.83         63.83         63.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         65.83         75.00         15.00         17.05         25.350         17.05         25.350         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00         75.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                                                                              |                | Quantities         | Price (SR)  | (SR)         |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16       | Plastic weather-resistant paints                                             | m <sup>2</sup> | 6528.33            | 40.83       | 266551.71    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1-1      | White glazed ceramic tiles                                                   | m²             | 898.33             | 63.83       | 57340.40     |
| $eq:linear_line$ | 18       | Insulator layer for moisture                                                 | m²             | 1835.83            | 23.33       | 42829.91     |
| $\label{eq:linearity} \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 61       | Thermal insulation, horizontal                                               | m²             | 1466.67            | 17.67       | 25916.06     |
| Plastic paints for interior walls (smooth American Texture)         m²         2280.00         34.17         l         l           Plastic paints for interior vellings (smooth American Texture)         m²         1670.00         32.50         l           Plastic paints for interior cellings (smooth American Texture)         m²         1670.00         32.50         l           Aluminum vindows         m²         170.00         356.67         345.00         l           Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         291.00         359.17         345.00         l           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         359.17         l         l         101.33         267.50         l         l         166.67         l         l         166.67         l         l         166.67         l         l         l         170.00         359.17         l         l         l         l         l         170.00         359.17         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         l         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 50       | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00            | 15.00       | 23250.00     |
| Plastic paints for interior ceilings (smooth American Texture) $m^2$ $1670.00$ $32.50$ $348.17$ $345.00$ $345.00$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $267.50$ $101.33$ $101.33$ $101.33$ $101.33$ $101.33$ $101.33$ $101.33$ $101.33$ $101.5$ $101.5$ $101.667$ $101.667$ $101.667$ $101.667$ $111.67$ Main switchboard         Mol         1.00         10.00         1000         1000 <td>21</td> <td>Plastic paints for interior walls (smooth American Texture)</td> <td>m²</td> <td>2280.00</td> <td>34.17</td> <td>77907.60</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 21       | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00            | 34.17       | 77907.60     |
| Aluminum windows         m²         348.17         345.00         Adminum windows           Hollow metallic doors         m²         170.00         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         366.67         367.66.60         316.66         366.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22       | Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 1670.00            | 32.50       | 54275.00     |
| Hollow metallic doors         m²         170.00         366.67         366.67           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         101.33         267.50         359.17           Fluorescent lighting fixture, (2x40 watt), with reflector         No.         291.00         359.17         1166.67           Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No.         26.17         1166.67         143.58           Switch, ACC. window type (2x30 Amps)         No.         No.         26.17         1166.67         145.83           Switch, ACC. window type (2x30 Amps)         No.         No.         137.83         141.67         165.67           Main switchboard, school buildit3         No.         No.         1.00         3333.33         141.67           Main switchboard, school buildit3         No.         No.         1.00         37500.00         176.63           Main switchboard, school buildit3         No.         No.         1.00         37500.00         176.33         141.67         176.33         176.33         176.33         176.33         176.33         176.33         176.33         176.33         176.33         176.33         176.33         176.33         1776.32         176.33         1776.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23       | Aluminum windows                                                             | m²             | 348,17             | 345.00      | 120118.65    |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.101.33267.50IntercentFluorescent lighting fixture, (2x40 watt), with reflectorNo.291.00359.171166.67Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.291.00359.171166.67Switch, A/C. window type (2x30 Amps)No.No.26.171166.67141.67Switch, A/C. window type (2x30 Amps)No.No.137.83141.67No.Lighting switch (15 Amps/127 volt)No.137.83141.67No.Main switchboard, school buildite,?No.No.1.003333.33No.Main switchboardNo.No.1.0037500.00No.Main switchboardNo.No.1.0037500.00No.Main distribution panelboardNo.No.1.0037500.00Main distribution panelboardNo.No.1.0037500.00Reinforced thermoplastic cable (size 30x240x120mm <sup>3</sup> )m361.67212.50A/C unit windows type (cool/heat 1800 B/U/h,KW)No.79.33328.33A/C unit windows type (cool/heat 1800 B/U/h,KW)No.79.33328.33A/C unit windows type (cool/heat 1800 B/U/h,KW)No.79.33328.33Drinking water cooler (tank type)No.79.33328.33Drinking water cooler (tank type)No.No.79.33328.33Drinking water cooler (tank type)No.No.79.33328.33Drinking w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24       | Hollow metallic doors                                                        | m²             | 170.00             | 366.67      | 62333.90     |
| Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         359.17           Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No.         26.17         1166.67         1166.67           Switch, A/C. window type (2x30 Amps)         No.         81.33         145.83         145.83           Switch, A/C. window type (2x30 Amps)         No.         81.33         145.67         1166.67           Switch, A/C. window type (2x30 Amps)         No.         81.33         141.67         1           Main switchboard, school builditra;         No.         137.83         141.67         1           Main switchboard         No.         137.83         141.67         3           Main distribution panelboard         No.         10.00         37500.00         178.33           Reinforced thermoplastic cable (size 3x185x95 mm <sup>3</sup> )         No.         1.00         37500.00         178.33           Reinforced thermoplastic cable (size 30x240x120mm <sup>3</sup> )         Mo.         82.83         1708.33         24.60.00         178.33           A/C unit windows type (cool/freat 1800 BUT/h, KW)         No.         82.83         1708.33         241.67         212.50           A/C unit windows type (cool/freat 1800 BUT/h, KW)         No.         79.33         328.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25       | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 101.33             | 267.50      | 27105.78     |
| Image: Carrent of the site (4m high with 125 wat/220 volt lamp)       No. $26.17$ $1166.67$ Switch, A/C. window type (2x30 Amps)       No. $81.33$ $145.83$ Switch, A/C. window type (2x30 Amps)       No. $81.33$ $141.67$ Lighting switch (15 Amps/127 volt)       No. $1.00$ $37333.33$ Main switchboard       No. $1.00$ $37500.00$ Main distribution panelboard       No. $1.00$ $37500.00$ Thermoplastic cable (size $3x185x95 mm^2)$ )       m $260.00$ $178.33$ Reinforced thermoplastic cable (size $3x185x95 mm^2)$ )       m $361.67$ $212.50$ A/C unit windows type (cool/heat $1800 BUT/h, KW$ )       No. $82.83$ $1708.33$ A/C unit windows type (cool/heat $1800 BUT/h, KW$ )       No. $79.33$ $328.33$ Ceiling air fan (dia $142cm (56in)$ )       No. $79.33$ $328.33$ Drinking water cooler (tank type)       No. $79.33$ $328.33$ Origing air fan for (tank type)       No. $79.33$ $328.33$ Origing air fan for (tank type)       No. $79.33$ $320.00.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 26       | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00             | 359.17      | 104518.47    |
| Switch, A/C. window type (2x30 Amps)       No.       81.33       145.83         Lighting switch (15 Amps/127 volt)       No.       137.83       141.67         Main switchboard, school buildit.;       No.       137.83       141.67         Main switchboard, school buildit.;       No.       137.83       141.67         Main distribution panelboard       No.       1.00       3333.33         Main distribution panelboard       No.       1.00       37500.00         Thermoplastic cable (size 3x185x95 mm²)       No.       260.00       178.33         Reinforced thermoplastic cable (size 3x185x95 mm²)       No.       361.67       212.50         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.83       1708.33         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       79.33       328.33         Drinking water cooler (tank type)       No.       79.33       328.33         Drinking water cooler (tank type)       No.       10.00       2000.00         Drinking water cooler (tank type)       No.       10.00       2000.00         Drinking water cooler (tank type)       No.       10.00       2000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27       | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 26.17              | 1166.67     | 30531.75     |
| Lighting switch (15 Amps/127 volt)       No.       137,83       141.67         Main switchboard, school buildit.;       No.       1.00       3333.33         Main switchboard school buildit.;       No.       1.00       3333.33         Main distribution panelboard       No.       1.00       37500.00         Main distribution panelboard       No.       1.00       37500.00         Main distribution panelboard       No.       1.00       37500.00         Reinforced thermoplastic cable (size 3X185x95 mm²)       m       260.00       178.33         Reinforced thermoplastic cable (size 30x240x120mm²)       m       361.67       212.50         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.83       1708.33         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       79.33       328.33         Drinking water cooler (tank type)       No.       10.00       2000.00         Drinking water cooler (tank type)       No.       10.00       2000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28       | Switch, A/C. window type (2x30 Amps)                                         | No,            | 81.33              | 145.83      | 11860.35     |
| Main switchboard, school buildit. $3$ No.         1.00         3333.33         Addition           Main distribution panelboard         No.         No.         1.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         37500.00         375.30         37500.00         375.30         37500.00         375.30         375.30         375.30         375.30         375.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 29       |                                                                              | No.            | 137.83             | 141.67      | 19526.38     |
| Main distribution panelboard         No. $1.00$ $37500.00$ Thermoplastic cable (size $3x185x95  mn^2$ )         m $260.00$ $178.33$ Reinforced thermoplastic cable (size $30x240x120mm^2$ )         m $361.67$ $212.50$ A/C unit windows type (cool/heat $1800  BUT/h, KW$ )         No. $82.83$ $1708.33$ Ceiling air fan {dia 142cm (56in)}         No. $79.33$ $328.33$ Drinking water cooler (tank type)         No. $10.00$ $2000.00$ Orithing water cooler (tank type) $rot fan e fan $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30       | Main switchboard, school buildites                                           | No.            | 1.00               | 33333.33    | 33333.33     |
| Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )       m       260.00       178.33         Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )       m       361.67       212.50         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.83       1708.33         Ceiling air fan {dia 142cm (56in)}       No.       79.33       328.33         Drinking water cooler (tank type)       No.       10.00       2000.00         Arce to be (tank type)       Arce to be are cooler (tank type)       500.00       2000.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 31       | Main distribution panelboard                                                 | No.            | 1.00               | 37500.00    | 37500.00     |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         361.67         212.50           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         82.83         1708.33         Editing air fait (dia 142cm (56in))         328.33         Drinking water cooler (tank type)         328.33         170.00         2000.00         Editing air fait (air type)         2000.00         Editing air type)         2000.00         E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 32       | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ              | 260.00             | 178.33      | 46365.80     |
| A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.83     1708.33       Ceiling air fan (dia 142cm (56in))     No.     79.33     328.33       Drinking water cooler (tank type)     No.     10.00     2000.00       The Sum of The Total Prices       of The Idea Idea (S8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ł        | Reinforced thermoplastic cable (size $30x240x120mm^2$ )                      | u              | 361.67             | 212.50      | 76854.88     |
| Ceiling air fan (dia 142cm (56in))     No.     79.33     328.33       Drinking water cooler (tank type)     No.     10.00     2000.00       The Sum of The Total Prices       of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>—</b> | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.83              | 1708.33     | 141500.97    |
| Drinking water cooler (tank type)     2000.00       The Sum of The Total Prices       of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 35       | Celling air fan {dia 142cm (56in)}                                           | No.            | 79.33              | 328.33      | 26046.42     |
| The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 36       | Drinking water cooler (tank type)                                            | No.            | 10.00              | 2000.00     | 20000.00     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                                                                              |                | The Sum of The T   | otal Prices |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                                                                              |                | of The Index Items | i (SR)      | 3,395,784.78 |

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### Table 4.30Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - JeddahYear 1992

|          |                                                  |        | The Average | The Average | The Total |
|----------|--------------------------------------------------|--------|-------------|-------------|-----------|
| <b>*</b> | Work Items                                       | Unit   | of          | of the Unit | Price     |
| :        |                                                  |        | Quantities  | Price (SR)  | (SR)      |
| -        | Recovertion work                                 | re     | 1455.00     | 16.00       | 23280.00  |
| ·   ~    | Backfilling work                                 | en.    | 1875.00     | 15.00       | 28125.00  |
| -        | Excention work for the foundation                | г<br>Ш | 1933.33     | 20.83       | 40271.26  |
| ,<br>  ⊲ | Plain concrete work under the foundation         | г<br>Ш | 299.17      | 303.33      | 90747.24  |
| ľ        | Reinforced concrete work for the foundation      | е<br>Ш | 575.00      | 747.50      | 429812.50 |
|          | Natural crushed stone sub-base coarse            | m²     | 450.00      | 34.17       | 15376.50  |
| -        | Building made from Calcium Silicate Bricks       | m²     | 633.33      | 118.33      | 74941.94  |
| . ~      |                                                  | m²     | 3108.33     | 47.50       | 147645.68 |
| 0        | Plain concrete with 10 cm thickness              | m²     | 1625.00     | 25.00       | 40625.00  |
| , e      | Reinforced concrete for the whole superstrucutre | ۴      | 1036.67     | 815.67      | 845580.62 |
| : =      |                                                  | m²     | 1682.50     | 57.17       | 96188.53  |
| : 21     | CMU walls with 20 cm thickness                   | m²     | 2460.00     | 60.00       | 147600.00 |
|          | (Glazed mosaic tiles (size 30x30x3cm)            | m²     | 2580.00     | 60.83       | 156941.40 |
| 14       | 14 Floor tiling                                  | m²     | 1485.83     | 30.00       | 44574.90  |
| 12       | 15 Natural marble of stairs                      | ä      | 194.67      | 162.50      | 31633.88  |
|          |                                                  | İ      |             |             | Continued |

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| Table 4.3 |

| of the Unit           Price (SR)           13.83           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           54.17           19.17           28.33           13.83           13.83           13.83           13.83           265.83           265.83           265.83           265.83           265.83           265.83           265.83           265.83           2666.67           19500.00           107.50           107.50           107.50           107.50           107.50           107.50           107.50           107.50           107.50           107.50           107.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    | -                                                                            |                | The Average       | The Average | The Total    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------|----------------|-------------------|-------------|--------------|
| Plastic weather-resistant paints $m^2$ QuantitiesPrice (SR)Plastic weather-resistant paints $m^2$ 6528.3313.83While glazed ceranic tiles $m^2$ 6528.3313.83Insulator layer for moisture $m^2$ 88.3354.17Insulator layer for moisture $m^2$ 88.3355.00Insulator layer for moisture $m^2$ 1530.0019.17Thermal insulation, horizontal $m^2$ 1550.0013.83Plastic paints for interior vealing (smooth American Texture) $m^2$ 1550.0013.83Plastic paints for interior cellings (smooth American Texture) $m^2$ 2380.0013.83Plastic paints for interior cellings (smooth American Texture) $m^2$ 348.17400.00Houninum windows $m^2$ 348.17400.0013.83Plastic paints for interior cellings (smooth American Texture) $m^2$ 238.0013.83Aluminum windows $m^2$ 1670.0013.83245.83Houcoseent lighting fixture, (1x4 watt), with reflector $m^2$ 238.0026.172083.33Switch, AC: window type (2x30 Amps)No.21.0026.172083.33Switch, AC: window type (2x30 Amps)No.21.0026.172083.33Main switchboard, stobol buildingNo.21.0010.75.0010.67Main switchboardStobol buildingNo.10.13.33245.83Switch, AC: window type (cooth Ampelation)No.21.00107.50Main switchboardStobol building <t< th=""><th>#</th><th>Work Items</th><th>Unit</th><th>of</th><th>of the Unit</th><th>Price</th></t<>                                                                                                                                                                                                                               | #  | Work Items                                                                   | Unit           | of                | of the Unit | Price        |
| Plastic weather-resistant paints         m²         6528.33         13.83         54.17           White glazed ceramic tiles         m²         898.33         54.17         1           Insulator layer for moisture         m²         1835.83         55.00         19.17           Insulator layer for moisture         m²         155.00         28.33         19.17           Thermal insulation, vortical         m²         1550.00         28.33         19.17           Thermal insulation, vortical         m²         2280.00         13.83         19.17           Plastic paints for interior cultings (smooth American Texture)         m²         1670.00         13.83         13.33           Aluminum windows         m²         170.00         13.83         13.33         15.33         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00         13.83         16.00.00                                                                                                                                                                                                   |    |                                                                              |                | Quantities        | Price (SR)  | (SR)         |
| White glazed cernuic tiles         m²         898.33         54.17           Insulator layer for moisture         m²         1835.83         55.00           Insulator layer for moisture         m²         1835.83         55.00           Thermal insulation, vertical         m²         1855.00         2.8.33           Thermal insulation, vertical         m²         1550.00         13.83           Plastic paints for interior veliting (smooth American Texture)         m²         2280.00         13.83           Plastic paints for interior veliting (smooth American Texture)         m²         2700.00         13.83           Plastic paints for interior cellings (smooth American Texture)         m²         348.17         400.00           Alumium windows         m²         348.17         400.00         138.33           Plastic paints for interior cellings (smooth American Texture)         m²         348.17         400.00           Alumium windows         m²         348.17         400.00         138.33           Plastic paints for interior cellings (smooth American Texture)         m²         348.17         400.00           Hollow metallic dons         m²         170.00         100.33         183.33           Fluorescent lighting fixture (Zx40 watt) with reflector         No.                                                                                                                                                                   | 16 | Plastic weather-resistant paints                                             | m²             | 6528.33           | 13.83       | 90286.80     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1  | White glazed ceramic tiles                                                   | m²             | 898,33            | 54.17       | 48662.54     |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2  | Insulator laver for moisture                                                 | m <sup>2</sup> | 1835.83           | 55.00       | 100970.65    |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 61 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 1466.67           | 19.17       | 28116.06     |
| Plastic paints for interior walls (smooth American Texture)         m²         2280.00         13.83         1           Plastic paints for interior cellings (smooth American Texture)         m²         1670.00         13.83         1           Plastic paints for interior cellings (smooth American Texture)         m²         1670.00         13.83         1           Plastic paints for interior cellings (smooth American Texture)         m²         348.17         400.00         13.83           Aluminum windows         m²         170.00         13.33         183.33         183.33         133.33           Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         291.00         265.33         133.33         133.33           Fluorescent lighting fixture, (2x40 watt) with 125 watt/220 volt lamp)         No.         291.00         265.33         133.33         133.33         133.33         136.67         100.00         137.63         136.67         167.67         167.67         167.17         2083.33         166.67         166.67         166.67         166.67         166.67         166.67         166.67         166.67         166.67         166.66         166.66         166.66         166.66         166.66         166.66         166.66         166.66         166.66         1                                                                                                                           | 20 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00           | 28.33       | 43911.50     |
| Plastic paints for interior cellings (smooth American Texture) $m^2$ 1670.00         13.83           Almnium windows $m^2$ 348.17         400.00           Hollow metallic doors $m^2$ 348.17         400.00           Hollow metallic doors $m^2$ 170.00         13.33           Fluorescent lighting fixture, (1x4 watt), with reflector         No.         291.00         265.83           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         265.83           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         265.83           Emorpost for the site (4m high with 125 watt/220 volt lamp)         No.         26.17         2033.33           Switch, ACC. window type (2x30 Amps)         No.         No.         26.17         2033.33           Lighting switch (15 Amps/127 volt)         No.         No.         137.83         116.67           Main switchboard, school building         No.         No.         137.83         116.67         No           Main switchboard         Stotton panelboard         No.         100         137.83         116.67         N           Main switchboard         No.         No.         No.         1.00                                                                                                                                                                                                                                                    | 21 | Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 2280.00           | 13.83       | 31532,40     |
| Aluminum windows         m²         348.17         400.00           Hollow metallic doors         m²         170.00         1000.00           Fluorescent lighting fixture, (1x4 watt), with reflector         No.         291.00         265.83           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         265.83           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         265.83           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         265.83           Fluorescent lighting fixture, (2x40 watt) with 125 watt/220 volt lamp)         No.         291.00         265.83           Switch, ACC. window type (2x30 Amps)         No.         81.33         245.83         116.67           Switch, ACC. window type (cashool building         No.         17.00         116.67         2083.33           Main switchboard         No.         137.83         116.67         2083.33           Main switchboard         No.         1.00         106.00         106.66.67           Main switchboard         No.         1.00         106.00         107.50           Main distribution panelboard         No.         1.00         19500.00         174.17           Reinforced thermo                                                                                                                                                                          | 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00           | 13.83       | 23096.10     |
| Hollow metallic doors         m²         170.00         1000.00         1000.00           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         101.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         183.33         185.66         1         208.10         206.10         208.10         208.33         1         16.67         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         <                                                                                                                                                                                                                                                                                     | 23 | Aluminum windows                                                             | m²             | 348.17            | 400.00      | 139268.00    |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         101.33         183.33         183.33           Fluorescent lighting fixture, (2x40 watt), with reflector         No.         291.00         265.83         183.33           Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No.         291.00         265.83         255.83           Switch, AC: window type (2x30 Amps)         No.         291.00         265.83         245.83           Switch, AC: window type (2x30 Amps)         No.         81.33         245.83         16.66           Switch, AC: window type (2x30 Amps)         No.         137.83         116.67         2083.33           Main switchboard, school building         No.         1.00         1866.67         1           Main switchboard         No.         1.00         19500.00         107.50           Main distribution panelboard         No.         1.00         19500.00         107.50           Thermoplastic cable (size 3X185x95 mm <sup>3</sup> )         No.         1.00         19500.00         107.50           Reinforced thermoplastic cable (size 3X185x95 mm <sup>3</sup> )         No.         260.00         107.51         174.17           AC unit windows type (cool/near 1800 BUT/h,KW)         No.         79.33         620.83 <td< td=""><td>24</td><td>Hollow metallic doors</td><td>m<sup>2</sup></td><td>170.00</td><td>1000.00</td><td>170000.00</td></td<> | 24 | Hollow metallic doors                                                        | m <sup>2</sup> | 170.00            | 1000.00     | 170000.00    |
| Fluorescent lighting fixture, (2x40 watt) with reflector       No.       291.00       265.83       Fluorescent lighting fixture, (2x40 watt) with reflector         Lamp-post for the site (4m high with 125 watt/220 volt lamp)       No.       26.17       2083.33       1         Switch, A/C. window type (2x30 Amps)       No.       81.33       245.83       1         Switch, A/C. window type (2x30 Amps)       No.       81.33       245.83       1         Isplitting switch (15 Amps/127 volt)       No.       81.33       245.83       1       16.67       1         Main switchboard, school building       No.       No.       137.83       116.67       1       1       1       16.66.67       1       1       16.67       1       1       1       1       16.67       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1                                                                                                                                                                                                                                                                                                                                          | 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 101.33            | 183.33      | 18576.83     |
| Izemp-post for the site (4m high with 125 watt/220 volt lamp)       No. $26.17$ $2083.33$ Switch, A/C. window type (2x30 Amps)       No. $81.33$ $245.83$ Switch, A/C. window type (2x30 Amps)       No. $81.33$ $245.83$ Lighting switch (15 Amps/127 volt)       No. $81.33$ $245.83$ Main switchboard, school building       No. $137.83$ $116.67$ $1366.67$ Main switchboard, school building       No. $1.00$ $18666.67$ $19500.00$ Main distribution panelboard       No. $1.00$ $19500.00$ $107.50$ Reinforced thermoplastic cable (size $3x185x95 mm^2)$ m $361.67$ $174.17$ Reinforced thermoplastic cable (size $30x240x120mm^2)$ No. $82.83$ $1333.33$ A/C unit windows type (cool/heat $1800 BUT/h, KW)$ No. $82.83$ $1333.33$ A/C unit windows type (cool/heat $1800 BUT/h, KW)$ No. $79.33$ $620.83$ Drinking water cooler (tank type)       No. $79.33$ $620.83$ $174.17$ Drinking water cooler (tank type)       No. $79.33$ $620.83$ $174.17$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00            | 265.83      | 77356.53     |
| Switch, AC. window type (2x30 Amps)       No.       81.33       245.83       Lighting switch (15 Amps/127 volt)       245.83       116.67       245.83         Lighting switch (15 Amps/127 volt)       No.       137.83       116.67       116.67       116.67         Main switchboard, school building       No.       1.00       18666.67       19560.00       19560.00         Main distribution panelboard       No.       No.       1.00       19500.00       107.50       174.17         Thermoplastic cable (size 3X185x95 mm²)       No.       No.       82.83       1333.33       1333.33         Reinforced thermoplastic cable (size 3X185x95 mm²)       No.       82.83       1333.33       124.17         AC unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.83       1333.33       620.83         AC unit windows type (cool/heat 1800 BUT/h,KW)       No.       79.33       620.83       620.83         Drinking water cooler (tank type)       No.       79.33       620.83       67       10.00       2033.33         Orithing water cooler (tank type)       No.       No.       79.33       67.14       79.33       67.14       79.33       67.13       79.33       79.33       70.33       70.33       70.33       70.33       70.33                                                                                                                                                                                                                                | 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 26.17             | 2083.33     | 54520.75     |
| Lighting switch (15 Amps/127 volt)       No.       137.83       116.67         Main switchboard, school building       No.       1.00       18666.67         Main distribution panelboard       No.       1.00       19560.00         Main distribution panelboard       No.       1.00       19500.00         Thermoplastic cable (size $3x185x95$ mm <sup>2</sup> )       m $260.00$ 107.50         Reinforced thermoplastic cable (size $30x240x120mm^2$ )       m $361.67$ 174.17         A/C unit windows type (cool/heat $1800$ BUT/h,KW)       No. $82.83$ $1383.33$ A/C unit windows type (cool/heat $1800$ BUT/h,KW)       No. $79.33$ $620.83$ Drinking water cooler (tank type)       No. $79.33$ $620.83.33$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 81.33             | 245.83      | 19993.35     |
| Main switchboard, school building         No.         1.00         18666.67           Main switchboard, school building         No.         1.00         19500.00           Main distribution panelboard         No.         1.00         19500.00           Thermoplastic cable (size 3x185x95 mm <sup>3</sup> )         m $260.00$ 107.50           Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m $361.67$ 174.17           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No. $82.83$ 1383.33           Ceiling air fan {dia 142cm (56in)}         No. $79.33$ $620.83$ Drinking water cooler (tank type)         No. $10.00$ $2083.33$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 137.83            | 116.67      | 16080.63     |
| Main distribution panelboard         No.         1.00         19500.00           Thermoplastic cable (size $3x185x95 \text{ mm}^2$ )         m $260.00$ 174.17           Reinforced thermoplastic cable (size $30x240x120mm^2$ )         m $361.67$ $174.17$ A/C unit windows type (cool/heat $1800 \text{ BUT/h}, \text{KW}$ )         No. $82.83$ $1383.33$ Ceiling air fan {dia $142cm$ (56in)}         No. $82.83$ $1383.33$ Drinking water cooler (tank type)         No. $79.33$ $620.83$ Drinking water cooler (tank type)         No. $10.00$ $2083.33$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30 | Main switchboard, school building                                            | No.            | 1.00              | 18666.67    | 18666.67     |
| Thermoplastic cable (size 3x185x95 mm²)       m       260.00       107.50         Reinforced thermoplastic cable (size 30x240x120mm²)       m       361.67       174.17         Reinforced thermoplastic cable (size 30x240x120mm²)       m       361.67       174.17         A/C unit windows type (cool/heat 1800 BUT/h,KW)       No.       82.83       1383.33         Celling air fan {dia 142cm (56in)}       No.       79.33       620.83         Drinking water cooler (tank type)       No.       10.00       2083.33         Of The Sum of The Fuel Remotes       of The Sum of The Total Prices       0f The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 31 | Main distribution panelboard                                                 | No.            | 1.00              | 19500.00    | 19500.00     |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )     m     361.67     174.17       A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.83     1383.33       Celiling air fan {dia 142cm (56in)}     No.     79.33     620.83       Drinking water cooler (tank type)     No.     10.00     2083.33       Of The Sum of The Sum of The Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 32 | 85x95                                                                        | m              | 260.00            | 107.50      | 27950.00     |
| A/C unit windows type (cool/heat 1800 BUT/h,KW)     No.     82.83     1383.33       Ceiling air fan {dia 142cm (56in)}     No.     79.33     620.83       Drinking water cooler (tank type)     No.     10.00     2083.33       The Sum of The Total Prices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | u              | 361.67            | 174.17      | 62992.06     |
| Ceiling air fan {dia 142cm (56in)}     No.     79.33     620.83       Drinking water cooler (tank type)     No.     10.00     2083.33       The Sum of The Total Prices       of The Sum of State (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.83             | 1383.33     | 114581.22    |
| Drinking water cooler (tank type) 2083.33 Inc. 10.00 2083.33 The Sum of The Total Prices of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 35 |                                                                              | No.            | 79.33             | 620.83      | 49250.44     |
| The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36 | Drinking water cooler (tank type)                                            | No.            | 10.00             | 2083.33     | 20833,30     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                              |                | The Sum of The T  | otal Prices |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                              |                | of The Index Item | s (SR)      | 3,389,490.27 |

# Table 4.31Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - JeddahYear 1993

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|    |                                                  |                | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
|    |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | m <sup>3</sup> | 1455.00     | 8.33        | 12120.15  |
| 6  | Backfilling work                                 | т <sup>3</sup> | 1875.00     | 13.50       | 25312.50  |
| ę  | Excavation work for the foundation               | m <sup>3</sup> | 1933.33     | 12.67       | 24495.29  |
| 4  | Plain concrete work under the foundation         | ещ<br>Г        | 299.17      | 283.67      | 84865.55  |
| S  | Reinforced concrete work for the foundation      | m <sup>3</sup> | 575.00      | 659.67      | 379310.25 |
| 9  | Natural crushed stone sub-base coarse            | m <sup>2</sup> | 450.00      | 40.17       | 18076.50  |
| -  | Building made from Calcium Silicate Bricks       | m²             | 633.33      | 94.67       | 59957.35  |
| ∞  | Concrete pavers (40x40x5cm)                      | m²             | 3108.33     | 42.67       | 132632.44 |
| 6  | Plain concrete with 10 cm thickness              | m²             | 1625.00     | 24.33       | 39536.25  |
| 10 | Reinforced concrete for the whole superstrucutre | т <sup>3</sup> | 1036.67     | 865.50      | 897237.89 |
| =  | CMU walls with 15 cm thickness                   | m <sup>2</sup> | 1682.50     | 40.17       | 67586.03  |
| 12 | CMU walls with 20 cm thickness                   | m²             | 2460,00     | 46.50       | 114390.00 |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup> | 2580.00     | 42.00       | 108360.00 |
| 14 | Floor tiling                                     | m²             | 1485.83     | 29.33       | 43579.39  |
| 15 | Natural marble of stairs                         | m              | 194.67      | 144.83      | 28194.06  |
|    |                                                  |                |             |             | Continued |

|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| #  | Work Items                                                                   | Unit           | of                          | of the Unit | Price        |
|    |                                                                              |                | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m²             | 6528.33                     | 17.67       | 115355.59    |
| 17 | White glazed ceramic tiles                                                   | m²             | 898.33                      | 53.50       | 48060.66     |
| 18 | Insulator layer for moisture                                                 | m²             | 1835.83                     | 36.00       | 66089.88     |
| 19 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 1466.67                     | 37.67       | 55249.46     |
| 20 | Thermal insulation, vertical                                                 | m²             | 1550.00                     | 20.00       | 31000,00     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                     | 16,50       | 37620.00     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                     | 18.67       | 31178.90     |
| 23 | Aluminum windows                                                             | $m^2$          | 348.17                      | 410.17      | 142808.89    |
| 24 | Hollow metallic doors                                                        | m <sup>2</sup> | 170.00                      | 751.50      | 127755.00    |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 101.33                      | 219.50      | 22241.94     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 260.33      | 75756.03     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 26.17                       | 1561.50     | 40864.46     |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 81.33                       | 212.50      | 17282.63     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 137.83                      | 120.50      | 16608.52     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                        | 44037.00    | 44037.00     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 45138.33    | 45138,33     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 260.00                      | 149.83      | 38955.80     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 361.67                      | 190.83      | 69017.49     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.83                       | 1836.83     | 152144.63    |
| 35 | (Ceiling air fan {dia 142cm (56in)}                                          | No.            | 79.33                       | 370.00      | 29352.10     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2210.00     | 22100.00     |
|    |                                                                              |                | The Sum of The Total Prices | tal Prices  |              |
|    |                                                                              |                | of The Index Items (SR)     | (SR)        | 3,264,270.93 |
|    |                                                                              |                |                             |             |              |

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**Table 4.31 continued** 

#### Table 4.32 Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items Educational Area - Jeddah Year 1994

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|    |                                                  |                 | The Average | The Average | The Total |
|----|--------------------------------------------------|-----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit            | of          | of the Unit | Price     |
|    |                                                  |                 | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | m <sup>3</sup>  | 1455.00     | 25.00       | 36375.00  |
| 7  | Backfilling work                                 | rm <sup>3</sup> | 1875.00     | 25.50       | 47812.50  |
| m  | Excavation work for the foundation               | m <sup>3</sup>  | 1933.33     | 43.00       | 83133,19  |
| 4  | Plain concrete work under the foundation         | m <sup>3</sup>  | 299.17      | 310.00      | 92742.70  |
| Ś  | Reinforced concrete work for the foundation      | m <sup>3</sup>  | 575.00      | 685.00      | 393875.00 |
| 9  | Natural crushed stone sub-base coarse            | m²              | 450.00      | 79.50       | 35775.00  |
| 2  | Building made from Calcium Silicate Bricks       | m <sup>2</sup>  | 633.33      | 155.00      | 98166.15  |
| ∞  | Concrete pavers (40x40x5cm)                      | m²              | 3108.33     | 59,50       | 184945.64 |
| 6  | Plain concrete with 10 cm thickness              | m²              | 1625.00     | 31.00       | 50375.00  |
| 10 | Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 1036.67     | 852.00      | 883242.84 |
| 11 | CMU walls with 15 cm thickness                   | m²              | 1682.50     | 42.50       | 71506.25  |
| 12 | CMU walls with 20 cm thickness                   | m <sup>2</sup>  | 2460.00     | 48.00       | 118080.00 |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²              | 2580.00     | 50.50       | 130290.00 |
| 14 | Floor tiling                                     | m²              | 1485.83     | 36.50       | 54232.80  |
| 15 | Natural marble of stairs                         | E               | 194.67      | 190.00      | 36987.30  |
|    |                                                  |                 |             |             | Continued |

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|    |                                                                              |        | The Average                                            | The Average         | The Total    |
|----|------------------------------------------------------------------------------|--------|--------------------------------------------------------|---------------------|--------------|
| #  | Work Items                                                                   | Unit   | of                                                     | of the Unit         | Price        |
|    |                                                                              |        | Quantities                                             | Price (SR)          | (SR)         |
| 16 | Plastic weather-resistant paints                                             | ц<br>Ц | 6528.33                                                | 19.50               | 127302.44    |
| 1  | White plazed ceramic tiles                                                   | m²     | 898.33                                                 | 64.50               | 57942.29     |
| 8  | Insulator laver for moisture                                                 | ц,     | 1835.83                                                | 43.00               | 78940.69     |
| 6  | Thermal insulation. horizontal                                               | m²     | 1466.67                                                | 32.00               | 46933.44     |
| 50 | Thermal insulation. vertical                                                 | n2     | 1550.00                                                | 30.00               | 46500.00     |
| 21 | Plastic naints for interior walls (smooth American Texture)                  | ц<br>ц | 2280.00                                                | 18.00               | 41040.00     |
| 52 | Plastic paints for interior ceilings (smooth American Texture)               | ۳      | 1670.00                                                | 19.00               | 31730.00     |
| 23 | Aluminum windows                                                             | г<br>Ш | 348.17                                                 | 403.00              | 140312.51    |
| 24 | Hollow metallic doors                                                        | m²     | 170.00                                                 | 1144.00             | 194480,00    |
| 25 | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.    | 101.33                                                 | 239.00              | 24217.87     |
| 26 | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.    | 291.00                                                 | 285.00              | 82935.00     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.    | 26.17                                                  | 1676.00             | 43860.92     |
| 28 | Switch, A/C, window type (2x30 Amps)                                         | No.    | 81.33                                                  | 227.00              | 18461.91     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.    | 137.83                                                 | 160.00              | 22052.80     |
| 30 | Main switchboard, school building                                            | No.    | 1.00                                                   | 37448.00            | 37448.00     |
| 31 | Main distribution panelboard                                                 | No.    | 1.00                                                   | 39240.00            | 39240.00     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | u      | 260.00                                                 | 169.50              | 44070.00     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | u      | 361.67                                                 | 221.00              | 79929.07     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.    | 82.83                                                  | 1902.00             | 157542.66    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.    | 79.33                                                  | 361.00              | 28638.13     |
| 36 | Drinking water cooler (tank type)                                            | No.    | 10.00                                                  | 2196.00             | 21960.00     |
|    |                                                                              |        | The Sum of The Total Prices<br>of The Index Items (SR) | otal Prices<br>(SR) | 3,683,077.08 |
|    |                                                                              |        |                                                        |                     |              |

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## Table 4.33Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - JeddahYear 1995

|    |                                                  |                | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
|    |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | em3            | 1455.00     | 20.00       | 29100.00  |
| 7  | Backfilling work                                 | т <sup>з</sup> | 1875.00     | 19.00       | 35625.00  |
| 6  | Excavation work for the foundation               | m <sup>3</sup> | 1933.33     | 25.00       | 48333.25  |
| 4  | Plain concrete work under the foundation         | m <sup>3</sup> | 299.17      | 325.00      | 97230.25  |
| ς  | Reinforced concrete work for the foundation      | е <sup>ш</sup> | 575.00      | 675.00      | 388125.00 |
| 9  | Natural crushed stone sub-base coarse            | m²             | 450.00      | 37.00       | 16650.00  |
| 2  | Building made from Calcium Silicate Bricks       | m <sup>2</sup> | 633.33      | 385.00      | 243832.05 |
| ∞  | Concrete pavers (40x40x5cm)                      | m²             | 3108.33     | 30.00       | 93249.90  |
| 6  | Plain concrete with 10 cm thickness              | m²             | 1625.00     | 30.00       | 48750.00  |
| 2  | Reinforced concrete for the whole superstrucutre | т <sup>3</sup> | 1036.67     | 930.00      | 964103.10 |
| =  | CMU walls with 15 cm thickness                   | m²             | 1682.50     | 35.00       | 58887.50  |
| 12 | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 39.00       | 95940.00  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 2580.00     | 38.00       | 98040,00  |
| 14 | Floor tiling                                     | m <sup>2</sup> | 1485.83     | 30.00       | 44574.90  |
| 15 | 15 Natural marble of stairs                      | m              | 194.67      | 200.00      | 38934,00  |
|    |                                                  |                |             |             | Continued |

| continued |
|-----------|
| 4.33      |
| Table     |

|    |                                                                              |                | The Average                                            | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|--------------------------------------------------------|-------------|--------------|
| 72 | Work Items                                                                   | Unit           | of                                                     | of the Unit | Price        |
|    |                                                                              |                | Quantities                                             | Price (SR)  | (SR)         |
| 91 | Plastic weather-resistant paints                                             | m²             | 6528.33                                                | 18.00       | 117509.94    |
| 17 | White glazed ceramic tiles                                                   | m²             | 898.33                                                 | 60.00       | 53899.80     |
| 8  | Insulator layer for moisture                                                 | m²             | 1835.83                                                | 75.00       | 137687.25    |
| 19 | Thermal insulation, horizontal                                               | m²             | 1466.67                                                | 50.00       | 73333.50     |
| 5  | Thermal insulation, vertical                                                 | rm²            | 1550.00                                                | 40.00       | 62000.00     |
| 51 | Plastic paints for interior walls (smooth American Texture)                  | 2<br>m         | 2280.00                                                | 14.00       | 31920.00     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                                                | 14.00       | 23380.00     |
| 23 | Aluminum windows                                                             | m²             | 348,17                                                 | 560.00      | 194975.20    |
| 24 | Hollow metallic doors                                                        | m <sup>2</sup> | 170.00                                                 | 780.00      | 132600.00    |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 101.33                                                 | 184.00      | 18644.72     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                                                 | 200.00      | 58200.00     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 26.17                                                  | 1400.00     | 36638.00     |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 81.33                                                  | 234.00      | 19031.22     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 137.83                                                 | 138.00      | 19020.54     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                                                   | 66395.00    | 66395.00     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                                                   | 60864.00    | 60864.00     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | u              | 260.00                                                 | 131.00      | 34060.00     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | m              | 361.67                                                 | 225.00      | 81375.75     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.83                                                  | 2820.00     | 233580.60    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 79.33                                                  | 560.00      | 44424.80     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                                                  | 2960.00     | 29600.00     |
|    |                                                                              |                | The Sum of The Total Prices<br>of The Index Items (SR) | otal Prices | 3.830.515.27 |
|    |                                                                              |                |                                                        |             |              |

# Table 4.34Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - Eastern ProvinceYear 1990

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|    |                                                  | $\vdash$       | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
| -  |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | m <sup>3</sup> | 1700.00     | 9.75        | 16575.00  |
| 7  | Backfilling work                                 | °m             | 2661.67     | 10.33       | 27495.05  |
| 3  | Excavation work for the foundation               | m <sup>3</sup> | 2141.67     | 15.00       | 32125.05  |
| 4  | Plain concrete work under the foundation         | m <sup>3</sup> | 304.17      | 175.33      | 53330.13  |
| S  | Reinforced concrete work for the foundation      | m <sup>3</sup> | 609.17      | 556.67      | 339106,66 |
| 9  | Natural crushed stone sub-base coarse            | m²             | 465.00      | 93.33       | 43398.45  |
| 7  | Building made from Calcium Silicate Bricks       | m²             | 815.00      | 52.00       | 42380.00  |
| 8  | Concrete pavers (40x40x5cm)                      | m²             | 4016.67     | 48.00       | 192800,16 |
| 6  | Plain concrete with 10 cm thickness              | m²             | 1640.00     | 20.33       | 33341.20  |
| 10 | Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 1040.00     | 605.00      | 629200.00 |
| 11 | CMU walls with 15 cm thickness                   | m²             | 1695.00     | 32.00       | 54240.00  |
| 12 | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 35.67       | 87748.20  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup> | 2580.00     | 48.67       | 125568.60 |
| 14 | 14 Floor tiling                                  | m²             | 1500.00     | 33.00       | 49500.00  |
| 15 | 15 Natural marble of stairs                      | E              | 196.00      | 138.00      | 27048.00  |
|    |                                                  |                |             |             | Continued |

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|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| #  | Work Items                                                                   | Unit           | of                          | of the Unit | Price        |
|    |                                                                              |                | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m²             | 6550.00                     | 27.50       | 180125.00    |
| 17 | White glazed ceramic tiles                                                   | m <sup>2</sup> | 910.00                      | 65.33       | 59450.30     |
| 18 | Insulator layer for moisture                                                 | m <sup>2</sup> | 1850.00                     | 32.67       | 60439.50     |
| 19 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 1480.00                     | 26.33       | 38968.40     |
| 20 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                     | 20.00       | 31000.00     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                     | 25.67       | 58527.60     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 1670.00                     | 25.67       | 42868,90     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 349.00                      | 410.50      | 143264.50    |
| 24 | Hollow metallic doors                                                        | $m^{2}$        | 170.00                      | 416.67      | 70833.90     |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00                      | 284.00      | 29252,00     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 313.33      | 91179.03     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 39.00                       | 1042.50     | 40657.50     |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 82.00                       | 200.00      | 16400.00     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 141.00                      | 150.00      | 21150.00     |
| 30 | Main switchtboard, school building                                           | No.            | 1.00                        | 18166.67    | 18166.67     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 20166.67    | 20166.67     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ              | 260.00                      | 136.67      | 35534.20     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | u              | 410.00                      | 189.33      | 77625.30     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                       | 1750.00     | 143500.00    |
| 35 | [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 80.00                       | 334.00      | 26720.00     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2378.67     | 23786.70     |
|    |                                                                              |                | The Sum of The Total Prices | otal Prices | 7 083 477 67 |
|    |                                                                              |                | VC) SUISIT XANUT AUT IN     |             | 10,214,00%   |

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### Table 4.35Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items **Educational Area - Eastern Province** Year 1991

|    |                                                  |                | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
|    |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | en.            | 1700.00     | 14.40       | 24480.00  |
| 2  | Backfilling work                                 | m <sup>3</sup> | 2661.67     | 17.08       | 45461.32  |
| m  | Excavation work for the foundation               | m³             | 2141.67     | 52.17       | 111730.92 |
| 4  | Plain concrete work under the foundation         | m <sup>3</sup> | 304.17      | 237.17      | 72140.00  |
| S  | Reinforced concrete work for the foundation      | т,             | 609.17      | 633.33      | 385805,64 |
| 9  | Natural crushed stone sub-base coarse            | m²             | 465.00      | 67.50       | 31387.50  |
| F  | Building made from Calcium Silicate Bricks       | m²             | 815.00      | 59.50       | 48492.50  |
| ∞  | Concrete pavers (40x40x5cm)                      | m²             | 4016.67     | 36.00       | 144600.12 |
| 6  | Plain concrete with 10 cm thickness              | m²             | 1640.00     | 19.67       | 32258,80  |
| 2  | Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 1040.00     | 720.00      | 748800.00 |
| =  | CMU walls with 15 cm thickness                   | m <sup>2</sup> | 1695.00     | 38.00       | 64410,00  |
| 12 | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 40.50       | 99630.00  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 2580.00     | 36.83       | 95021.40  |
| 14 | Floor tiling                                     | m <sup>2</sup> | 1500.00     | 27.00       | 40500,00  |
| 15 | 15 Natural marble of stairs                      | Ħ              | 196.00      | 173.67      | 34039.32  |
|    |                                                  |                |             |             | Continued |

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|    |                                                                              |                | The Average                                            | The Average           | The Total    |
|----|------------------------------------------------------------------------------|----------------|--------------------------------------------------------|-----------------------|--------------|
| 7# | Work Items                                                                   | Unit           | of                                                     | of the Unit           | Price        |
|    |                                                                              |                | Quantities                                             | Price (SR)            | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m²             | 6550.00                                                | 30.67                 | 200888.50    |
| 17 | White glazed ceramic tiles                                                   | m <sup>2</sup> | 910.00                                                 | 64.67                 | 58849.70     |
| 18 | Insulator layer for moisture                                                 | m <sup>2</sup> | 1850.00                                                | 26.83                 | 49635.50     |
| 19 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 1480.00                                                | 24.33                 | 36008.40     |
| 5  | Thermal insulation, vertical                                                 | m²             | 1550.00                                                | 18.17                 | 28163.50     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                                                | 30.33                 | 69152.40     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                                                | 30.50                 | 50935.00     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 349.00                                                 | 343.17                | 119766.33    |
| 24 | Hollow metallic doors                                                        | m <sup>2</sup> | 170.00                                                 | 378.33                | 64316.10     |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00                                                 | 319.33                | 32890.99     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                                                 | 358.33                | 104274.03    |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 39.00                                                  | 957.50                | 37342.50     |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 82.00                                                  | 414.17                | 33961.94     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 141.00                                                 | 231.67                | 32665.47     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                                                   | 34166.67              | 34166.67     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                                                   | 38875.00              | 38875.00     |
| 32 | Thermoplastic cable (size 3x185x95 mm²)                                      | u              | 260.00                                                 | 155.50                | 40430,00     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ              | 410.00                                                 | 200.33                | 82135.30     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82,00                                                  | 1505.83               | 123478.06    |
| 35 | [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 80.00                                                  | 391.83                | 31346.40     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                                                  | 3053.00               | 30530.00     |
|    |                                                                              |                | The Sum of The Total Prices<br>of The Index Items (SR) | otal Prices<br>t (SR) | 3,278,569.31 |
|    |                                                                              |                |                                                        |                       |              |

## Table 4.36Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - Eastern ProvinceYear 1992

|    |                                                  |                | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
|    |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | Ē              | 1700.00     | 22.80       | 38760.00  |
| 7  | Backfilling work                                 | m <sup>3</sup> | 2661.67     | 9.17        | 24407.51  |
| 3  | Excavation work for the foundation               | е<br>Е         | 2141.67     | 23.17       | 49622.49  |
| 4  | Plain concrete work under the foundation         | °.             | 304.17      | 204.33      | 62151.06  |
| S  | Reinforced concrete work for the foundation      | ГШ             | 609.17      | 619.17      | 377179.79 |
| હ  | Natural crushed stone sub-base coarse            | m <sup>2</sup> | 465.00      | 73.67       | 34256.55  |
| 6  | Building made from Calcium Silicate Bricks       | m²             | 815.00      | 66.80       | 54442.00  |
| ∞  | Concrete pavers (40x40x5cm)                      | m²             | 4016.67     | 53.17       | 213566.34 |
| 6  | Plain concrete with 10 cm thickness              | m <sup>2</sup> | 1640.00     | 20.33       | 33341.20  |
| 2  | Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 1040.00     | 620.00      | 644800.00 |
| =  | CMU walls with 15 cm thickness                   | m²             | 1695.00     | 35.67       | 60460.65  |
| 12 | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 38.17       | 93898.20  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 2580.00     | 49.17       | 126858.60 |
| 14 | Floor tiling                                     | m²             | 1500.00     | 34.67       | 52005.00  |
| 15 | Natural marble of stairs                         | E              | 196.00      | 158.00      | 30968.00  |
|    |                                                  |                |             |             | Continued |

|              |                                                                              |                | The Average                 | The Average | The Total |
|--------------|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|-----------|
| #            | Work Items                                                                   | Unit           | of                          | of the Unit | Price     |
|              |                                                                              |                | Quantities                  | Price (SR)  | (SR)      |
| 16           | Plastic weather-resistant paints                                             | m²             | 6550.00                     | 16.67       | 109188.50 |
| 2            | White plazed ceramic tiles                                                   | m²             | 910.00                      | 71.83       | 65365.30  |
| :   <u>«</u> | Insulator laver for moisture                                                 | m²             | 1850.00                     | 40.00       | 74000.00  |
| 6            | Thermal insulation, horizontal                                               | m²             | 1480.00                     | 26.67       | 39471.60  |
| 20           | Thermal insulation, vertical                                                 | m²             | 1550.00                     | 23.17       | 35913.50  |
| 21           | Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 2280.00                     | 16.00       | 36480.00  |
| 22           | Plastic paints for interior cellings (smooth American Texture)               | m²             | 1670.00                     | 16.00       | 26720.00  |
| 23           | Aluminum windows                                                             | m²             | 349.00                      | 425.00      | 148325.00 |
| 24           | Hollow metallic doors                                                        | m²             | 170.00                      | 591.67      | 100583.90 |
| 25           | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00                      | 299.83      | 30882.49  |
| 26           | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.            | 291.00                      | 310.50      | 90355.50  |
| 27           | I amp-post for the site (4m high with 125 watt/220 volt lamp)                | No.            | 39,00                       | 1408.33     | 54924.87  |
| 28           |                                                                              | No.            | 82.00                       | 182.50      | 14965.00  |
| 29           | Lighting switch (15 Amps/127 volt)                                           | No.            | 141.00                      | 150.00      | 21150.00  |
| 30           | Main switchboard, school building                                            | No.            | 1.00                        | 16750.00    | 16750.00  |
| 31           | Main distribution panelboard                                                 | No.            | 1.00                        | 18208.33    | 18208.33  |
| 32           | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ              | 260.00                      | 142.00      | 36920,00  |
| 33           | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 410.00                      | 194.00      | 79540.00  |
| 34           | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                       | 1479.17     | 121291.94 |
| 35           | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 80.00                       | 384.33      | 30746.40  |
| 36           | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2662.50     | 26625.00  |
|              |                                                                              |                | The Sum of The Total Prices | otal Prices |           |

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of The Index Items (SR)

**Table 4.36 continued** 

### Table 4.37 Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items Educational Area - Eastern Province Year 1993

|    |                                                  |                | The Average | The Average | The Total |
|----|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit           | of          | of the Unit | Price     |
|    |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | Ê              | 1700.00     | 52.67       | 89539.00  |
| 7  | Backfilling work                                 | m <sup>3</sup> | 2661.67     | 31.40       | 83576.44  |
| ~  | Excavation work for the foundation               | т <sup>з</sup> | 2141.67     | 42.60       | 91235.14  |
| 4  | Plain concrete work under the foundation         | em3            | 304.17      | 262.00      | 79692.54  |
| ς  | Reinforced concrete work for the foundation      | m <sup>3</sup> | 609.17      | 808.00      | 492209.36 |
| 9  | Natural crushed stone sub-base coarse            | m²             | 465.00      | 110.00      | 51150.00  |
| 2  | Building made from Calcium Silicate Bricks       | m²             | 815.00      | 136.00      | 110840.00 |
| ∞  | Concrete pavers (40x40x5cm)                      | m²             | 4016,67     | 67.20       | 269920.22 |
| 6  | Plain concrete with 10 cm thickness              | m²             | 1640.00     | 23.00       | 37720,00  |
| 0  | Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 1040.00     | 868.00      | 902720.00 |
| =  | CMU walls with 15 cm thickness                   | m²             | 1695.00     | 40.00       | 67800.00  |
| 12 | CMU walls with 20 cm thickness                   | m <sup>2</sup> | 2460.00     | 43.60       | 107256.00 |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 2580.00     | 55.40       | 142932.00 |
| 4  | Floor tiling                                     | m²             | 1500.00     | 40.60       | 60900.00  |
| 15 | Natural marble of stairs                         | E              | 196.00      | 143.00      | 28028.00  |
|    |                                                  |                |             |             | Continued |

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| Table 4.                                |

|    |                                                                              |                | The Average                                            | The Average           | The Total    |
|----|------------------------------------------------------------------------------|----------------|--------------------------------------------------------|-----------------------|--------------|
| *  | Work Items                                                                   | Unit           | of                                                     | of the Unit           | Price        |
| :  |                                                                              |                | Quantities                                             | Price (SR)            | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m²             | 6550.00                                                | 22.40                 | 146720.00    |
| 17 | White plazed ceramic tiles                                                   | m <sup>2</sup> | 910.00                                                 | 69.00                 | 62790.00     |
| 2  | Insulator laver for moisture                                                 | m²             | 1850.00                                                | 49.80                 | 92130.00     |
| 61 | Thermal insulation. horizontal                                               | m²             | 1480.00                                                | 39.40                 | 58312.00     |
| 50 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                                                | 33.00                 | 51150.00     |
| 51 | Plastic naints for interior walls (smooth American Texture)                  | m²             | 2280.00                                                | 21.40                 | 48792.00     |
| 5  | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                                                | 21.40                 | 35738.00     |
| 53 | Aluminum windows                                                             | m²             | 349.00                                                 | 510.00                | 177990.00    |
| 24 | Hollow metallic doors                                                        | m²             | 170.00                                                 | 840.00                | 142800.00    |
| 25 | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00                                                 | 385.40                | 39696.20     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                                                 | 422.00                | 122802.00    |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 39.00                                                  | 1410.00               | 54990.00     |
| 28 | Switch. A/C. window type (2x30 Amps)                                         | No.            | 82.00                                                  | 280.00                | 22960.00     |
| 29 |                                                                              | No.            | 141.00                                                 | 236.00                | 33276.00     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                                                   | 45500.00              | 45500.00     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                                                   | 54260.00              | 54260.00     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ              | 260.00                                                 | 164.00                | 42640.00     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ              | 410.00                                                 | 226.00                | 92660.00     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                                                  | 1860.00               | 152520.00    |
| 35 | [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 80.00                                                  | 430.00                | 34400,00     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                                                  | 2240.00               | 22400.00     |
|    |                                                                              |                | The Sum of The Total Prices<br>of The Index Items (SR) | otal Prices<br>s (SR) | 4,150,044.90 |
|    |                                                                              |                |                                                        |                       |              |

## Table 4.38Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsEducational Area - Eastern ProvinceYear 1994

|                                         | Work Itame                                       | IInit           | The Average<br>of | The Average<br>of the Unit | The Total<br>Price |
|-----------------------------------------|--------------------------------------------------|-----------------|-------------------|----------------------------|--------------------|
| <b>*</b>                                |                                                  | 5               | Quantities        | Price (SR)                 | (SR)               |
| -                                       | Rycavation work                                  | î.              | 1700.00           | 38.00                      | 64600.00           |
| · ~                                     | Backfilling work                                 | т <sup>3</sup>  | 2661.67           | 24.25                      | 64545,50           |
| 1 ~                                     | Receivation work for the foundation              | ſ.              | 2141.67           | 43.25                      | 92627.23           |
| v<br>4                                  | Plain concrete work under the foundation         | r<br>E          | 304.17            | 360.00                     | 109501.20          |
|                                         | Reinforced concrete work for the foundation      | ru <sup>3</sup> | 609.17            | 1029.00                    | 626835.93          |
| 9                                       | Natural crushed stone sub-base coarse            | m²              | 465.00            | 61.25                      | 28481.25           |
| 2                                       | Building made from Calcium Silicate Bricks       | m²              | 815.00            | 69.75                      | 56846.25           |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Concrete pavers (40x5cm)                         | m²              | 4016.67           | 76.75                      | 308279.42          |
|                                         | Plain concrete with 10 cm thickness              | m²              | 1640.00           | 35.50                      | 58220.00           |
|                                         | Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 1040.00           | 1008,50                    | 1048840.00         |
| =                                       | CMU walls with 15 cm thickness                   | m²              | 1695.00           | 74.25                      | 125853.75          |
| 12                                      | CMU walls with 20 cm thickness                   | m <sup>2</sup>  | 2460.00           | 72.00                      | 177120.00          |
|                                         | Glazed mosaic tiles (size 30x30x3cm)             | m²              | 2580.00           | 55.75                      | 143835.00          |
| 1                                       | Floor tiling                                     | m²              | 1500.00           | 54.75                      | 82125.00           |
| 15                                      | 15 Natural marble of stairs                      | E               | 196.00            | 155.50                     | 30478.00           |
|                                         |                                                  |                 |                   |                            | Continued          |

|    |                                                                              |      | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|------|-----------------------------|-------------|--------------|
| *  | Work Items                                                                   | Unit | of                          | of the Unit | Price        |
|    |                                                                              |      | Quantities                  | Price (SR)  | (SR)         |
| 91 | Plastic weather-resistant paints                                             | m²   | 6550.00                     | 30.25       | 198137.50    |
| 2  | White glazed ceramic tiles                                                   | m²   | 910.00                      | 71.00       | 64610.00     |
| 8  | Insulator laver for moisture                                                 | m²   | 1850.00                     | 38,50       | 71225.00     |
| 61 | Thermal insulation. horizontal                                               | m²   | 1480.00                     | 27.00       | 39960.00     |
| 20 | Thermal insulation, vertical                                                 | m²   | 1550.00                     | 22.25       | 34487.50     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²   | 2280.00                     | 30.50       | 69540.00     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²   | 1670.00                     | 31.00       | 51770.00     |
| 23 | Aluminum windows                                                             | m²   | 349.00                      | 518.75      | 181043.75    |
| 24 | Hollow metallic doors                                                        | m²   | 170.00                      | 801.25      | 136212.50    |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.  | 103.00                      | 356,50      | 36719.50     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.  | 291.00                      | 367.25      | 106869,75    |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.  | 39.00                       | 2425.00     | 94575.00     |
| 28 | Switch, A/C, window type (2x30 Amps)                                         | No.  | 82.00                       | 233.00      | 19106.00     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.  | 141.00                      | 170.75      | 24075.75     |
| 30 | Main switchboard, school building                                            | No.  | 1.00                        | 35250.00    | 35250.00     |
| 31 | Main distribution panelboard                                                 | No.  | 1.00                        | 39250.00    | 39250.00     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | u    | 260.00                      | 153.50      | 39910.00     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ    | 410.00                      | 207.50      | 85075.00     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.  | 82.00                       | 2630.00     | 215660.00    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.  | 80.00                       | 417.50      | 33400.00     |
| 36 | Drinking water cooler (tank type)                                            | No.  | 10.00                       | 2436.25     | 24362.50     |
|    |                                                                              |      | The Sum of The Total Prices | otal Prices | 4 610 478 78 |
|    |                                                                              |      | I THE THREE Y               |             | 071072677062 |

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**Table 4.38 continued** 

### Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items Educational Area - Eastern Province Year 1995 Table 4.39

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|          |                                                  |                  | The Average | The Average | The Total  |
|----------|--------------------------------------------------|------------------|-------------|-------------|------------|
| 7        | Work Items                                       | Unit             | of          | of the Unit | Price      |
| <b>b</b> |                                                  |                  | Quantities  | Price (SR)  | (SR)       |
| -        | Rreavation work                                  | ٦<br>E           | 1700.00     | 25.00       | 42500.00   |
| -   ~    | Backfilling work                                 | ۳<br>۳           | 2661.67     | 20.00       | 53233.40   |
| 4 "      | Reconsticut work for the foundation              | ٣                | 2141.67     | 28.00       | 59966,76   |
|          | Diain concrete work under the foundation         | r<br>E           | 304.17      | 325.00      | 98855,25   |
| -        | Reinforced concrete work for the foundation      | ۴                | 609.17      | 675.00      | 411189.75  |
|          | Natural crushed stone sub-base coarse            | ٣                | 465.00      | 36,00       | 16740.00   |
| ~        | Building made from Calcium Silicate Bricks       | m²               | 815.00      | 385.00      | 313775.00  |
| .α       | Concrete navers (40x40x5cm)                      | гщ<br>Г          | 4016.67     | 35.00       | 140583.45  |
| 0        | Dlain concrete with 10 cm thickness              | m <sup>2</sup>   | 1640.00     | 28.00       | 45920.00   |
|          | Reinforced concrete for the whole superstructure | re<br>E          | 1040.00     | 980.00      | 1019200.00 |
| 2=       |                                                  | m²               | 1695.00     | 30.00       | 50850.00   |
| 2        | CMIT walls with 20 cm thickness                  | m²               | 2460.00     | 35.00       | 86100.00   |
| : :      | Glazed mosaic tiles (size 30x3cm)                | m²               | 2580.00     | 38.00       | 98040.00   |
| 14       | Floor filing                                     | т <mark>2</mark> | 1500.00     | 30.00       | 45000.00   |
| 12       | Natural marhle of stairs                         | E                | 196.00      | 200.00      | 39200,00   |
|          |                                                  |                  |             |             | Continued  |

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| 4.39    |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------|----------------|-------------------|-------------|--------------|
| Plastic wenther-resistant paintsm²QuantifiesPrice (SR)Plastic wenther-resistant paintsm²6550.0018.00White glazed ceramic tilesm²910.0000.00Insulator layer for moisturem²1850.0018.00Insulator layer for moisturem²1550.0015.00Insulator layer for moisturem²1550.0015.00Plastic paints for interior walls (smooth American Texture)m²1550.0015.00Plastic paints for interior walls (smooth American Texture)m²1550.0015.00Plastic paints for interior cellings (smooth American Texture)m²1570.0015.00Plastic paints for interior cellings (smooth American Texture)m²1670.0015.00Plastic paints for interior cellings (smooth American Texture)m²1670.0015.00Plastic paints for interior cellings (smooth American Texture)m²1670.0015.00Aluminum windowsm²170.0015.0015.00Hollow metallic doorsm²170.0015.0015.00Hollow metallic doorsm²170.0013.0015.00Switch, AC. window type (2x30 Amps)No.No.29.001420.00Switch, AC. window type (2x30 Amps)No.10.001430.00Switch, AC. window type (2x30 Amps)No.10.001430.00Switch, AC. window type (2x30 Amps)No.10.00133.00Main distribution panelsoardNo.10.00143.00Main distribution pane                                                                                                                                                                                                                                         | #  | Work Items                                                                   | Unit           | of                | of the Unit | Price        |
| Plastic weather-resistant paints         m²         6550.00         18.00         60.00         18.00         18.00         18.00         60.00         18.00         60.00         18.00         60.00         18.00         60.00         60.00         18.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00         60.00                                                                                           |    |                                                                              |                | Quantities        | Price (SR)  | (SR)         |
| White glazed ceramic tiles         m <sup>2</sup> 910.00         60.00           Insulator layer for moisture         m <sup>2</sup> 1850.00         40.00         40.00           Thermal insulation, horizontal         m <sup>2</sup> 1850.00         24.00         20.00           Thermal insulation, vertical         m <sup>2</sup> 1550.00         20.00         15.00           Thermal insulation, vertical         m <sup>2</sup> 2580.00         15.00         255.00           Plastic paints for interior veiling (smooth American Texture)         m <sup>2</sup> 2780.00         15.00         275.00           Plastic paints for interior veiling (smooth American Texture)         m <sup>2</sup> 349.00         575.00         275.00           Aluminum windows         mindows         m <sup>2</sup> 349.00         575.00         280.00           Floorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted         No.         291.00         280.00         240.00           Fluorescent lighting fixture. (2x40 watt) with reflector         No.         39.00         1420.00         240.00           Switch, AC. window type (2x30 Amps)         No.         141.00         6680.00         480.00         240.00         145.00         145.00         145.00         145.00         145.00         145.00                 | 16 | Plastic weather-resistant paints                                             | m²             | 6550.00           | 18.00       | 117900.00    |
| $ \begin{array}{                                    $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1  | White glazed ceramic tiles                                                   | m²             | 910.00            | 60.00       | 54600.00     |
| $\label{eq:linearity} \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8  | Insulator laver for moisture                                                 | m <sup>2</sup> | 1850.00           | 40.00       | 74000.00     |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 61 | Thermal insulation. horizontal                                               | m²             | 1480.00           | 24.00       | 35520.00     |
| Plastic paints for interior walls (smooth American Texture)         m²         2280.00         15.00         15.00           Plastic paints for interior ceilings (smooth American Texture)         m²         1670.00         15.00         15.00           Plastic paints for interior ceilings (smooth American Texture)         m²         1670.00         575.00         15.00           Aluminum windows         m²         170.00         780.00         780.00         189.00           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         103.00         189.00         189.00           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         240.00         200.00         189.00           Fluorescent lighting fixture, (2x40 watt) with 125 watt/220 volt lamp)         No.         291.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00         240.00 | 50 | Thermal insulation, vertical                                                 | m²             | 1550.00           | 20,00       | 31000.00     |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00           | 15.00       | 34200.00     |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00           | 15.00       | 25050.00     |
| Hollow metallic doors         m²         170.00         780.00         780.00           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         103.00         189.00         189.00           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         200.00         189.00           Lamp-post for the site (4m high with 125 watt/220 volt lamp)         No.         291.00         240.00         1420.00           Switch, AC: window type (2x30 Amps)         No.         No.         141.00         145.00         143.00           Main switchboard, school building         No.         No.         141.00         66500.00         133.00           Main switchboard, school building         No.         1.00         66500.00         133.00         133.00           Main distribution panelboard         No.         No.         1.00         66870.00         227.00           Main distribution panelboard         No.         No.         1.00         65870.00         133.00           Main distribution panelboard         No.         No.         1.00         65870.00         133.00           Main distribution panelboard         No.         No.         1.00         530.00         2377.00           Motin distribut                                                 | 53 | Aluminum windows                                                             | m²             | 349.00            | 575.00      | 200675.00    |
| Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted         No.         103.00         189.00         189.00           Fluorescent lighting fixture, (2x40 watt) with reflector         No.         291.00         200.00         1420.00         1420.00         1420.00         1420.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         143.00         141.00                              | 24 | Hollow metallic doors                                                        | m²             | 170.00            | 780.00      | 132600.00    |
| Fluorescent lighting fixture, (2x40 watt) with reflector       No.       291.00       200.00         Lamp-post for the site (4m high with 125 watt/220 volt lamp)       No.       39.00       1420.00         Switch, A/C. window type (2x30 Amps)       No.       39.00       1420.00       1420.00         Switch, A/C. window type (2x30 Amps)       No.       82.00       240.00       145.00         I.ighting switch (15 Amps/127 volt)       No.       141.00       145.00       145.00         Main switchboard, school building       No.       No.       1.00       66500.00       66500.00         Main distribution panelboard       No.       No.       1.00       66500.00       133.00       133.00         Reinforced thermoplastic cable (size 3x185x95 mm <sup>3</sup> )       No.       No.       82.00       227.00       227.00         A/C unit windows type (cool/neat 1800 BUT/h,KW)       No.       82.00       257.00       257.00       257.00         A/C unit windows type (cool/neat 1800 BUT/h,KW)       No.       82.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       257.00       2550.00       2550.00       2550.00       2550.00                                                                         | 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 103.00            | 189.00      | 19467.00     |
| Lamp-post for the site (4m high with 125 watt/220 volt lamp)       No.       39.00       1420.00         Switch, A/C. window type (2x30 Amps)       No.       82.00       240.00         Lighting switch (15 Amps/127 volt)       No.       141.00       145.00         Main switchboard, school building       No.       1.00       66500.00         Main distribution panelboard       No.       1.00       66870.00         Main distribution panelboard       No.       10.00       5500.00         Main distribution panelboard       No.       80.00       2370.00         Act unit windows type (cool/neat 1800 BUT/h,KW)       No.       82.00       227.00         A/C unit windows type (cool/neat 1800 BUT/h,KW)       No.       80.00       2550.00         A/C unit windows type (cool/neat 1800 BUT/h,KW)       No.       80.00       2550.00       2570.00         Drinking water cooler (tank type)       No.       No.       10.00       2950.00       2950.00       2950.00       2950.00         Drinking water cooler (tank t                                                                                                  | 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00            | 200.00      | 58200.00     |
| Switch, AC. window type (2x30 Amps)       No.       82.00       240.00         Lighting switch (15 Amps/127 volt)       No.       141.00       145.00         Main switchboard, school building       No.       1.00       66500.00         Main switchboard, school building       No.       1.00       66500.00         Main switchboard       No.       1.00       66500.00         Main distribution panelboard       No.       1.00       66870.00         Main distribution panelboard       No.       No.       1.00       60870.00         Main distribution panelboard       No.       No.       1.00       50870.00         Altermoplastic cable (size 3X185x95 mm <sup>2</sup> )       m       410.00       220.00       227.00         Alc unit windows type (cool/neat 1800 BUT/h,KW)       No.       82.00       22700       22700         Alc unit windows type (cool/neat 1800 BUT/h,KW)       No.       80.00       2250.00       2350.00         Init windows type (cool/neat 1800 BUT/h,KW)       No.       80.00       2250.00       2050.00         Drinking water cooler (tank type)       No.       No.       10.00       2950.00       2950.00         Drinking water cooler (tank type)       No.       No.       10.00       2950.00 <t< td=""><td>27</td><td></td><td>No.</td><td>39.00</td><td>1420.00</td><td>55380.00</td></t<>                 | 27 |                                                                              | No.            | 39.00             | 1420.00     | 55380.00     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 28 |                                                                              | No.            | 82.00             | 240.00      | 19680,00     |
| Main switchboard, school building         No.         1.00         66500.00         66500.00           Main distribution panelboard         No.         No.         1.00         60870.00         60870.00           Main distribution panelboard         No.         No.         1.00         60870.00         60870.00           Thermoplastic cable (size $3x185x95 \text{ mm}^3$ )         m $260.00$ 133.00         133.00           Reinforced thermoplastic cable (size $30x240x120mm^3$ )         m $410.00$ $2271.00$ 2277.00           A/C unit windows type (cool/neat $1800 \text{ BUT/h}, \text{KW}$ )         No. $82.00$ $2200.00$ 2500.00           Ceiling air fan {dia $142cm (56in)$ }         No.         No. $80.00$ $2550.00$ Drinking water cooler (tank type) $2950.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 29 |                                                                              | No.            | 141.00            | 145.00      | 20445.00     |
| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30 | Main switchboard, school building                                            | No.            | 1.00              | 66500.00    | 66500,00     |
| $\begin{tabular}{ l l l l l l l l l l l l l l l l l l l$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 31 | Main distribution panelboard                                                 | No.            | 1.00              | 60870.00    | 60870.00     |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         410.00         227.00           A/C unit windows type (cool/neat 1800 BUT/h,KW)         No.         82.00         2200.00           Ceiling air fan {dia 142cm (56in)}         No.         80.00         550.00           Drinking water cooler (tank type)         No.         10.00         2950.00           Drinking water cooler (tank type)         The Sum of The Total Prices         of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 32 | 85x95                                                                        | u              | 260.00            | 133.00      | 34580.00     |
| A/C unit windows type (cool/fieat 1800 BUT/h,KW)         No.         82.00         2200.00           Ceiling air fan {dia 142cm (56in)}         No.         80.00         550.00         550.00           Drinking water cooler (tank type)         No.         10.00         2950.00         200.00           Drinking water cooler (tank type)         of The Sum of The Total Prices         0f The Index Items (SR)         0f The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 410.00            | 227.00      | 93070.00     |
| Ceiling air fan {dia 142cm (56in)}     S50.00       Drinking water cooler (tank type)     No.     10.00     2950.00       The Sum of The Total Prices       of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00             | 2200.00     | 180400.00    |
| Drinking water cooler (tank type) 10.00 2950.00<br>The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 35 |                                                                              | No.            | 80.00             | 550.00      | 44000.00     |
| The Sum of The Total Prices<br>of The Index Items (SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 36 | Drinking water cooler (tank type)                                            | No.            | 10.00             | 2950.00     | 29500.00     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                              |                | The Sum of The T  | otal Prices |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                              |                | of The Index Item | s (SR)      | 3,908,790.61 |

### 4.1.3 Calculation of RSPPI:

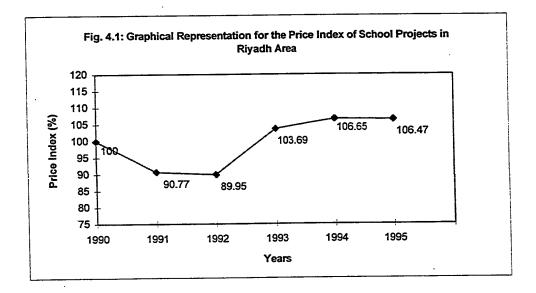
The total price for each item in the index has been calculated by multiplying the average of quantities by the average of prices for each item in Tables 4.22-4.39. Then, the sum of the total prices of the index items has been calculated and listed at the end of Tables 4.22 -4.39. The sum of total prices has been taken from Tables 4.22 - 4.27 for the years 1990-1995 respectively and listed in Table 4.40 for Riyadh area. The sum of total prices has been taken from Tables 4.28 - 4.33 for the years 1990-1995 and listed in Table 4.41 for Jeddah area. The sum of total prices has been taken from Tables 4.34-4.39 for the years 1990-1995 respectively and listed in Table 4.42 for Eastern Province. The RSPPI for Riyadh area has been calculated using the Laspeyres method and its values have been listed in Table 4.40 for the years 1990-1995. Also, the RSPPI for Riyadh area has been represented in figure 4.1 The RSPPI for Jeddah area has been calculated using the Lasperes method and its values have been listed in Table 4.41 for the year 1990-1995. Also, the RSPPI for Jeddah area has been represented in figure 4.2. The RSPPI for Eastern Province area has been calculated using the Laspeyres method and its values have been listed in Table 4.42 for the year 1990-1995. Also, the RSPPI for Eastern Province area has been represented in figure 4.3.

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### **Table 4.40**

### Calculation of the Price Index for Each Year Educational Area - Riyadh

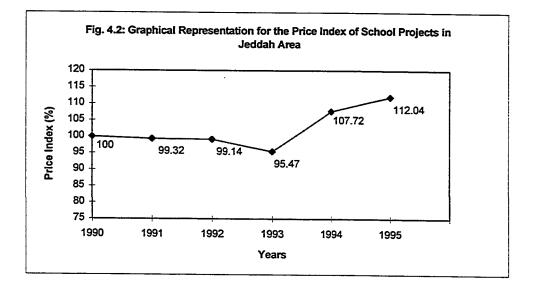
| # | Year | Sum of the Total<br>Prices of<br>Index Items (SR) | Price Index<br>(%) |
|---|------|---------------------------------------------------|--------------------|
| 1 | 1990 | 3,359,905.66                                      | 100.00             |
| 2 | 1991 | 3,049,834.39                                      | 90.77              |
| 3 | 1992 | 3,022,304.91                                      | 89.95              |
| 4 | 1993 | 3,483,921.92                                      | 103.69             |
| 5 | 1994 | 3,583,415.56                                      | 106.65             |
| 6 | 1995 | 3,577,430.84                                      | 106.47             |



### Table 4.41

### Calculation of the Price Index for Each Year Educational Area - Jeddah

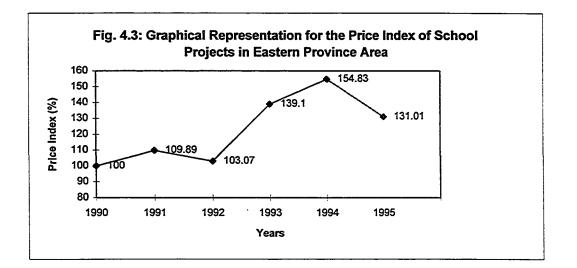
| # | Year | Sum of the Total<br>Prices of<br>Index Items (SR) | Price Index<br>(%) |
|---|------|---------------------------------------------------|--------------------|
| 1 | 1990 | 3,419,030.70                                      | 100.00             |
| 2 | 1991 | 3,395,784.78                                      | 99.32              |
| 3 | 1992 | 3,389,490.27                                      | 99.14              |
| 4 | 1993 | 3,264,270.93                                      | 95.47              |
| 5 | 1994 | 3,683,077.08                                      | 107.72             |
| 6 | 1995 | 3,830,515.27                                      | 112.04             |



### **Table 4.42**

### Calculation of the Price Index for Each Year Educational Area - Eastern Province

| # | Year | Sum of the Total<br>Prices of<br>Index Items (SR) | Price Index<br>(%) |
|---|------|---------------------------------------------------|--------------------|
| 1 | 1990 | 2,983,472.67                                      | 100.00             |
| 2 | 1991 | 3,278,569.31                                      | 109.89             |
| 3 | 1992 | 3,075,124.73                                      | 103.07             |
| 4 | 1993 | 4,150,044.90                                      | 139.10             |
| 5 | 1994 | 4,619,428.28                                      | 154.83             |
| 6 | 1995 | 3,908,790.61                                      | 131.01             |



### 4.2 THE DEVELOPMENT OF THE SPPI:

This section is divided into four sub-sections, namely, the calculation of quantities and prices, the calculation of average quantities and average prices, the calculation of total prices, and the calculation of the SPPI.

### 4.2.1 Calculation of Quantities and Prices:

This section consists of the calculation of the base year quantities and the calculation of items prices for the six years.

### 4.2.1.1 Calculation of the Base Year Quantities:

The SPPI items are listed in Table 4.43. the quantities for each item has been inserted in the Table for each item for the year 1990 from the Riyadh area. The sum of quantities and the number of samples has been calculated for each item. This procedures has been done for Jeddah and Eastern Province areas in Tables 4.44 and 4.45 respectively.

Calculation For the Base Year Quantities of Price Index Items **Educational Area - Riyadh** Table 4.43 Year 1990

|          |                                                          |                 |         | Pro    | Project Code Number <sup>1</sup> | le Numt  | oer <sup>1</sup> |        | The Sum | The No. |
|----------|----------------------------------------------------------|-----------------|---------|--------|----------------------------------|----------|------------------|--------|---------|---------|
| *#       | Work Items                                               | Unit            | 90/1/12 | 90/1/2 | 90/1/3                           | 90/1/4   | 90/1/5           | 90/1/6 | Oſ      | o       |
|          |                                                          |                 |         |        | Item Quantities                  | antities |                  |        | Qty.    | Samples |
| -        | Excavation work                                          | em <sup>3</sup> | 50      | 0      | 4700                             | 5800     | 2700             | 300    | 13550   | 9       |
| <b>~</b> | 1                                                        | °m              | 3100    | 3000   | 1500                             | 1400     | 1450             | 3200   | 13650   | 6       |
| <u> </u> | 1                                                        | ۳ <sup>3</sup>  | 1250    | 1300   | 1500                             | 1800     | 2150             | 1400   | 9400    | 9       |
| 4        | Plain concrete work under the foundation                 | m <sup>3</sup>  | 240     | 230    | 260                              | 260      | 250              | 260    | 1500    | 9       |
| l ~      | -                                                        | m <sup>3</sup>  | 510     | 540    | 595                              | 640      | 640              | 590    | 3515    | 6       |
| ७        |                                                          | m²              | 475     | 330    | 490                              | 480      | 480              | 475    | 2730    | 6       |
| 5        | Building made from Calcium Silicate Bricks               | m <sup>2</sup>  | 680     | 500    | 800                              | 700      | 550              | 740    | 3970    | 9       |
| ∞        | Concrete pavers (40x40x5cm)                              | m²              | 3740    | 2200   | 4100                             | 4100     | 2100             | 4100   | 20340   | 9       |
| 0        | -                                                        | m²              | 1640    | 1640   | 1640                             | 1640     | 1640             | 1640   | 9840    | 9       |
| 2        | 10 Reinforced concrete for the whole superstrucutre      | m <sup>3</sup>  | 1040    | 1040   | 1040                             | 1040     | 1040             | 1040   | 6240    | 9       |
| =        | 11 CMU walls with 15 cm thickness                        | ın²             | 1695    | 1695   | 1695                             | 1695     | 1695             | 1695   | 10170   | 9       |
| 12       | CMU walls with 20 cm thickness                           | m²              | 2460    | 2460   | 2460                             | 2460     | 2460             | 2460   | 14760   | 9       |
| 3        | 13 Glazed mosaic tiles (size 30x30x3cm)                  | m²              | 2580    | 2580   | 2580                             | 2580     | 2580             | 2580   | 15480   | 9       |
| 14       | 14 Floor tiling                                          | m²              | 1500    | 1500   | 1500                             | 1500     | 1500             | 1500   | 9006    | 6       |
| 15       | 15 Natural marble of stairs                              | m               | 196     | 196    | 196                              | 196      | 196              | 196    | 1176    | 6       |
| ]-       | Project code number is the project number in the sample. |                 |         |        |                                  |          |                  |        |         |         |

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Project code number is the project number in the sample. The first two digits refers to the year (i.e. 90 refers to year 1990 & 91 refers to year 1991..etc) The second number refers to the number of area (i.e. 1 refers to Riyadh, 2 refers to Jeddah & 3 refers to Eastern Province), the third number refers to the project number in the specific year and area.

### Table 4.43 continued

|       |                                                               |                |        | Pro    | <b>Project Code Number</b> | de Num   | ber    |        | The Sum | The No. |
|-------|---------------------------------------------------------------|----------------|--------|--------|----------------------------|----------|--------|--------|---------|---------|
| #     | Work Items                                                    | Unit           | 1/1/06 | 90/1/2 | 90/1/3                     | 90/1/4   | 90/1/5 | 90/1/6 | JO      | of      |
|       |                                                               |                |        |        | Item Quantities            | antities |        |        | Qty.    | Samples |
| 16    | Plastic weather-resistant paints                              | m²             | 6550   | 6550   | 6550                       | 6550     | 6550   | 6550   | 39300   | 6       |
| 17    | White plazed ceramic tiles                                    | m <sup>2</sup> | 910    | 910    | 910                        | 910      | 910    | 910    | 5460    | 6       |
| =<br> |                                                               | m²             | 1850   | 1850   | 1850                       | 1850     | 1850   | 1850   | 11100   | 6       |
| 19    |                                                               | m²             | 1480   | 1480   | 1480                       | 1480     | 1480   | 1480   | 8880    | 6       |
| 20    | Thermal insulation, vertical                                  | m²             | 1550   | 1550   | 1550                       | 1550     | 1550   | 1550   | 9300    | 6       |
| 5     | Plastic paints for interior walls (smooth American Texture)   | m²             | 2280   | 2280   | 2280                       | 2280     | 2280   | 2280   | 13680   | 6       |
| 22    |                                                               | m²             | 1670   | 1670   | 1670                       | 1670     | 1670   | 1670   | 10020   | 6       |
| 23    | Aluminum windows                                              | m²             | 349    | 349    | 349                        | 349      | 349    | 349    | 2094    | 6       |
| 24    |                                                               | m <sup>2</sup> | 170    | 170    | 170                        | 170      | 170    | 170    | 1020    | 6       |
| 25    | _                                                             | N0.            | 103    | 103    | 103                        | 103      | 103    | 103    | 618     | 6       |
| 26    | Fluorescent lighting fixture, (2x40 watt) with reflector      | No.            | 291    | 291    | 291                        | 291      | 291    | 291    | 1746    | 6       |
| 27    | Lannp-post for the site (4m high with 125 watt/220 volt lamp) | No.            | 22     | 17     | 35                         | 39       | 20     | 32     | 165     | 6       |
| 28    | Switch, A/C. window type (2x30 Amps)                          | N0.            | 82     | 82     | 82                         | 82       | 82     | 82     | 492     | 6       |
| 29    | Lighting switch (15 Amps/127 volt)                            | No.            | 141    | 141    | 141                        | 141      | 141    | 141    | 846     | 6       |
| 30    |                                                               | No.            | 1      | 1      | -                          |          | 1      | -      | 9       | 6       |
| 31    |                                                               | No.            | 1      | 1      | 1                          | 1        | 1      | -      | 6       | 6       |
| 32    | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )          | m              | 330    | 260    | 260                        | 260      | 260    | 260    | 1630    | 6       |
| 33    |                                                               | m              | 330    | 250    | 250                        | 340      | 160    | 200    | 1530    | 6       |
| 34    | A/C unit windows type (cool/heat 1800 BUT/h,KW)               | No.            | 82     | 82     | 82                         | 82       | 82     | 82     | 492     | 6       |
| 35    | Ceiling air fan {dia 142cm (56in)}                            | No.            | 80     | 80     | 80                         | 80       | 80     | 80     | 480     | 9       |
| 36    | 36 [Drinking water cooler (tank type)                         | No.            | 10     | 10     | 10                         | 10       | 10     | 10     | 60      | 6       |
|       |                                                               |                |        |        |                            |          |        |        |         |         |

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# Table 4.44Calculation For the Base Year Quantities of Price Index ItemsEducational Area - JeddahYear 1990

|          |                                                     |                |        | Pro    | <b>Project Code Number</b> | le Num   | ber    |           | The Sum | The No. |
|----------|-----------------------------------------------------|----------------|--------|--------|----------------------------|----------|--------|-----------|---------|---------|
| #        | Work Items                                          | Unit           | 90/2/1 | 90/2/2 | 90/2/3                     | 90/2/4   | 90/2/5 | 90/2/6    | of      | o       |
|          |                                                     |                |        |        | Item Quantities            | antities |        |           | Qty.    | Samples |
| -        | Excavation work                                     | m <sup>3</sup> | 300    | 0      | 130                        | 2300     | 2500   | 3500      | 8730    | 6       |
| 7        | Backfilling work                                    | m3             | 1650   | 5000   | 1050                       | 500      | 650    | 2400      | 11250   | 6       |
| <u>س</u> | Excavation work for the foundation                  | г <sup>ш</sup> | 2300   | 1550   | 1850                       | 1400     | 1700   | 2800      | 11600   | 6       |
| 4        | 1                                                   | Ē              | 220    | 320    | 325                        | 300      | 260    | 370       | 1795    | 6       |
| ľ        | Reinforced concrete work for the foundation         | т <sup>з</sup> | 490    | 620    | 560                        | 575      | 525    | 680       | 3450    | 6       |
| °        | 1                                                   | m²             | 475    | 485    | 310                        | 480      | 475    | 475       | 2700    | 6       |
| 5        | Building made from Calcium Silicate Bricks          | m²             | 620    | 600    | 450                        | 780      | 780    | 570       | 3800    | 6       |
| ∞        | 1                                                   | m <sup>2</sup> | 2550   | 3500   | 1300                       | 4100     | 4100   | 3100      | 18650   | 6       |
| ٩        |                                                     | m <sup>2</sup> | 1640   | 1640   | 1550                       | 1640     | 1640   | 1640      | 9750    | 6       |
| 2        | 10 Reinforced concrete for the whole superstrucutre | e <sup>س</sup> | 1040   | 1040   | 1020                       | 1040     | 1040   | 1040      | 6220    | 6       |
| =        | 11 CMU walls with 15 cm thickness                   | m²             | 1695   | 1695   | 1620                       | 1695     | 1695   | 1695      | 10095   | 9       |
| 12       | CMU walls with 20 cm thickness                      | m²             | 2460   | 2460   | 2460                       | 2460     | 2460   | 2460      | 14760   | 9       |
| 5        | Glazed mosaic tiles (size 30x30x3cm)                | m²             | 2580   | 2580   | 2580                       | 2580     | 2580   | 2580      | 15480   | 6       |
| 14       | 14 Floor tiling                                     | m <sup>2</sup> | 1500   | 1500   | 1415                       | 1500     | 1500   | 1500      | 8915    | 6       |
| l≌       | 15 Natural marble of stairs                         | m              | 196    | 196    | 188                        | 196      | 196    | 196       | 1168    | 6       |
| ]        |                                                     |                |        |        |                            |          | ບ      | Continued |         |         |

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|    |                                                                              |                 |        | Pro    | <b>Project Code Number</b> | de Num           | ber    |        | The Sum | The No. |
|----|------------------------------------------------------------------------------|-----------------|--------|--------|----------------------------|------------------|--------|--------|---------|---------|
| #  | Work Items                                                                   | Unit            | 90/2/1 | 90/2/2 | 90/2/3                     | 90/2/4           | 90/2/5 | 90/2/6 | Of      | Oſ      |
|    |                                                                              |                 |        |        | Items Q                    | Items Quantities |        |        | Qty.    | Samples |
| 9  | 16  Plastic weather-resistant paints                                         | m <sup>2</sup>  | 6550   | 6550   | 6420                       | 6550             | 6550   | 6550   | 39170   | 6       |
| 1  | 17 White glazed ceramic tiles                                                | m <sup>2</sup>  | 910    | 910    | 840                        | 910              | 910    | 910    | 5390    | 6       |
| 8  | 18 Insulator layer for moisture                                              | m²              | 1850   | 1850   | 1765                       | 1850             | 1850   | 1850   | 11015   | 6       |
| 2  | 19 Thermal insulation. horizontal                                            | 1m <sup>2</sup> | 1480   | 1480   | 1400                       | 1480             | 1480   | 1480   | 8800    | 6       |
| 20 | 20 Thermal insulation. vertical                                              | m²              | 1550   | 1550   | 1550                       | 1550             | 1550   | 1550   | 9300    | 6       |
| 5  | 21 Plastic paints for interior walls ( smooth American Texture )             | m²              | 2280   | 2280   | 2280                       | 2280             | 2280   | 2280   | 13680   | 6       |
| 3  | 22 Plastic paints for interior ceilings ( smooth American Texture )          | m <sup>2</sup>  | 1670   | 1670   | 1670                       | 1670             | 1670   | 1670   | 10020   | 6       |
| 23 | 23 Aluminum windows                                                          | m²              | 349    | 349    | 344                        | 349              | 349    | 349    | 2089    | 6       |
| 24 | 24  Hollow metallic doors                                                    | m²              | 170    | 170    | 170                        | 170              | 170    | 170    | 1020    | 6       |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.             | 103    | 103    | 93                         | 103              | 103    | 103    | 608     | 9       |
| 26 | 26 Fluorescent lighting fixture, (2x40 watt) with reflector                  | No.             | 291    | 291    | 291                        | 291              | 291    | 291    | 1746    | 9       |
| 27 | 27 I ann-post for the site (4m high with 125 watt/220 volt lamp)             | No.             | 21     | 30     | 16                         | 35               | 26     | 29     | 157     | 6       |
| 28 | Switch, A/C, window type (2x30 Amps)                                         | No.             | 82     | 82     | 78                         | 82               | 82     | 82     | 488     | 6       |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.             | 141    | 141    | 122                        | 141              | 141    | 141    | 827     | 6       |
| ŝ  | 30 Main switchboard, school building                                         | No.             | 1      | 1      | 1                          | 1                | 1      | 1      | 9       | 6       |
| 31 | Main distribution panelboard                                                 | No.             | 1      | 1      | 1                          | 1                | 1      |        | 6       | 6       |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | H               | 260    | 260    | 260                        | 260              | 260    | 260    | 1560    | 6       |
| 33 | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )          | Ħ               | 460    | 480    | 400                        | 350              | 200    | 280    | 2170    | 6       |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.             | 82     | 82     | 87                         | 82               | 82     | 82     | 497     | 6       |
| 35 | 35  Ceiling air fan {dia142cm (56in)}                                        | No.             | 80     | 80     | 76                         | 80               | 80     | 80     | 476     | 6       |
| 36 | 36 Drinking water cooler (tank type)                                         | No.             | 10     | 10     | 10                         | 10               | 10     | 10     | 60      | 9       |

# Table 4.45Calculation For the Base Year Quantities of Price Index ItemsEducational Area - Eastern ProvinceYear 1990

|    |                                                     |                 | -<br>-<br>-<br>-<br>- | Proj   | ect Coc         | <b>Project Code Number</b> | ber    |           | The Sum | The No. |
|----|-----------------------------------------------------|-----------------|-----------------------|--------|-----------------|----------------------------|--------|-----------|---------|---------|
| #  | Work Items                                          | Unit            | 90/3/1                | 90/3/2 | 90/3/3          | 90/3/4                     | 90/3/5 | 90/3/6    | JO      | Oſ      |
|    |                                                     |                 |                       |        | Item Quantities | antities                   |        |           | Qty.    | Samples |
| -  | Excavation work                                     | Ē               | 2500                  | 0      | 800             | 5000                       | 0      | 1900      | 10200   | 6       |
| 2  | Backfilling work                                    | em <sup>3</sup> | 3400                  | 5700   | 1450            | 220                        | 4500   | 700       | 15970   | 6       |
| ~  | Excavation work for the foundation                  | em <sup>3</sup> | 1850                  | 1000   | 1950            | 2150                       | 4200   | 1700      | 12850   | 6       |
| 4  | Plain concrete work under the foundation            | Ē               | 315                   | 270    | 265             | 355                        | 370    | 250       | 1825    | 6       |
| Ś  | Reinforced concrete work for the foundation         | Ē               | 720                   | 480    | 515             | 720                        | 700    | 520       | 3655    | 6       |
| v  | Natural crushed stone sub-base coarse               | m²              | 485                   | 490    | 385             | 475                        | 480    | 475       | 2790    | 6       |
| 7  | Building made from Calcium Silicate Bricks          | m²              | 1050                  | 620    | 640             | 920                        | 840    | 820       | 4890    | 6       |
| ∞  | Concrete pavers (40x40x5cm)                         | m²              | 4100                  | 4100   | 3600            | 4100                       | 4100   | 4100      | 24100   | 6       |
| 0  | Plain concrete with 10 cm thickness                 | m²              | 1640                  | 1640   | 1640            | 1640                       | 1640   | 1640      | 9840    | 6       |
| 2  | 10 Reinforced concrete for the whole superstrucutre | т <sup>з</sup>  | 1040                  | 1040   | 1040            | 1040                       | 1040   | 1040      | 6240    | 6       |
| Ξ  | 11 CMU walls with 15 cm thickness                   | m²              | 1695                  | 1695   | 1695            | 1695                       | 1695   | 1695      | 10170   | 6       |
| 12 | 12 CMU walls with 20 cm thickness                   | m²              | 2460                  | 2460   | 2460            | 2460                       | 2460   | 2460      | 14760   | 6       |
| 13 | 13 Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup>  | 2580                  | 2580   | 2580            | 2580                       | 2580   | 2580      | 15480   | 6       |
| 4  | 14 Floor tiling                                     | m <sup>2</sup>  | 1500                  | 1500   | 1500            | 1500                       | 1500   | 1500      | 9000    | 6       |
| 15 | 15 Natural marble of stairs                         | Ħ               | 196                   | 196    | 196             | 196                        | 196    | 196       | 1176    | 6       |
| ]  |                                                     |                 |                       |        |                 |                            | Ŭ      | Continued |         |         |

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## **Table 4.45 continued**

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|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |        | Pro    | <b>Project Code Number</b> | de Num   | ber    |        | The Sum | The No. |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|--------|----------------------------|----------|--------|--------|---------|---------|
| #          | Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit | 90/3/1 | 90/3/2 | 90/3/3                     | 90/3/4   | 90/3/5 | 90/3/6 | of      | of      |
| :          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |        |        | Item Quantities            | antities |        |        | Qty.    | Samples |
| 16         | Dlastic weather-resistant naints                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m²   | 6550   | 6550   | 6550                       | 6550     | 6550   | 6550   | 39300   | 6       |
| 2 2        | . users insures resonance procession in the second se | m²   | 910    | 910    | 910                        | 910      | 910    | 910    | 5460    | 6       |
| =          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m²   | 1850   | 1850   | 1850                       | 1850     | 1850   | 1850   | 11100   | 6       |
| 101        | Thermal inculation horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m²   | 1480   | 1480   | 1480                       | 1480     | 1480   | 1480   | 8880    | 6       |
| ŝ          | Themal insulation vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | m²   | 1550   | 1550   | 1550                       | 1550     | 1550   | 1550   | 9300    | 6       |
| 3 7        | Plastic maints for interior walls ( smooth American Texture )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m²   | 2280   | 2280   | 2280                       | 2280     | 2280   | 2280   | 13680   | 6       |
| : 2        | Plastic paints for interior ceillings (smooth American T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | m²   | 1670   | 1670   | 1670                       | 1670     | 1670   | 1670   | 10020   | 6       |
| 3 E        | 22 A Junianum windows                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m²   | 349    | 349    | 349                        | 349      | 349    | 349    | 2094    | 6       |
| 3 2        | 24 Hollow metallic doors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | m²   | 170    | 170    | 170                        | 170      | 170    | 170    | 1020    | 6       |
| <u>ا د</u> | 25 Rhurescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.  | 103    | 103    | 103                        | 103      | 103    | 103    | 618     | 6       |
| 3 8        | 26 Filmerescent lighting fixture. (2x40 watt) with reflector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No.  | 291    | 291    | 291                        | 291      | 291    | 291    | 1746    | 9       |
| 3 5        | 27 If amn-most for the site (4m high with 125 watt/220 volt lamp)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 45     | 39     | 29                         | 48       | 37     | 36     | 234     | 6       |
| 28         | Switch. A/C. window type (2x30 Amps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.  | 82     | 82     | 82                         | 82       | 82     | 82     | 492     | 6       |
| 30         | 29 Lighting switch (15 Amps/127 volt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No.  | 141    | 141    | 141                        | 141      | 141    | 141    | 846     | 6       |
| 30         | Main switchboard, school building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No.  | 1      | 1      | 1                          | -        | -      | -      | 6       | 6       |
| ~          | Main distribution panelboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No.  | 1      | 1      | 1                          | 1        | 1      |        | 6       | 6       |
| 5          | Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ٤    | 260    | 260    | 260                        | 260      | 260    | 260    | 1560    | 9       |
| 3          | Reinforced thermonlastic cable (size 30x240x120mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ٤    | 550    | 360    | 350                        | 480      | 380    | 340    | 2460    | 6       |
| 34         | A/C unit windows type (cool/heat 1800 BUT/h.KW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | 82     | 82     | 82                         | 82       | 82     | 82     | 492     | 6       |
| <u>ا</u> د | 35 [Ceiling air fan dia {142cm (56in)}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No.  | 80     | 80     | 80                         | 80       | 80     | 80     | 480     | 6       |
| 7          | 36 Drinking water cooler (tank type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.  | 10     | 10     | 10                         | 10       | 10     | 10     | 60      | 6       |
| 3          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |        |        |                            |          |        |        |         |         |

### 4.2.1.2 Calculation of Items Prices for the Six Periods:

The prices for each item are shown in Table 4.46 for the year 1990 from the Riyadh area. The sum of prices has been calculated for each item. Also, the sum of the number of samples has been calculated for each item. This calculation procedure has been done for Jeddah and Eastern Province areas in Tables 4.47 and 4.48 respectively. this procedures has been repeated for each area in the other periods (i.e. 1991, 1992, 1993, 1994 & 1995) in Tables 4.49 to 4.63.

| Table 4.46 | Calculation For the Base Year Prices of Price Index Items | Educational Area - Riyadh | Year 1990 |
|------------|-----------------------------------------------------------|---------------------------|-----------|
|------------|-----------------------------------------------------------|---------------------------|-----------|

| L        |                                                     |                |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |           | The    | The No. |
|----------|-----------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|-----------|--------|---------|
| *        | Work Items                                          | Unit           | 90/1/1 | 90/1/2 | 90/1/3                     | 90/1/4             | 90/1/5 | 90/1/6    | Total  | Of      |
|          |                                                     |                |        |        | Items Pri                  | Items Prices in SR |        |           | Prices | Samples |
|          | Excavation work                                     | Ē              | 30     |        | 19                         | 15                 | 30     | 30        | 124    | 6       |
| 2        | Backfilling work                                    | em,            | 20     | 15     | 22                         | 10                 | 20     | 20        | 107    | 6       |
| m        |                                                     | m <sup>3</sup> | 35     | 20     | 39                         | 30                 | 32     | 30        | 186    | 6       |
| 4        |                                                     | em3            | 250    | 250    | 259                        | 250                | 180    | 200       | 1389   | 6       |
| ~        |                                                     | m <sup>3</sup> | 700    | 700    | 529                        | 800                | 650    | 650       | 4029   | 6       |
| <u>°</u> |                                                     | m²             | 130    | 130    | 51                         | 41                 | 22     | 22        | 396    | 6       |
| 1        | Building made from Calcium Silicate Bricks          | m²             | 70     | 70     | 129                        | 90                 | 120    | 120       | 599    | 6       |
| ∞        |                                                     | m²             | 50     | 50     | 49                         | 50                 | 70     | 70        | 339    | 6       |
| 0        | Plain concrete with 10 cm thickness                 | m²             | 20     | 20     | 18                         | 20                 | 22     | 22        | 122    | 6       |
| 2        | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 700    | 700    | 661                        | 800                | 720    | 720       | 4301   | 9       |
| =        | 11 CMU walls with 15 cm thickness                   | m²             | 30     | 30     | 29                         | 32                 | 40     | 40        | 201    | 6       |
| 12       | CMU walls with 20 cm thickness                      | m <sup>2</sup> | 35     | 35     | 38                         | 36                 | 45     | 45        | 234    | 6       |
| 13       | 13 Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup> | 60     | 60     | 51                         | 45                 | 60     | 60        | 336    | 6       |
| 14       | 14 Floor tiling                                     | m²             | 35     | 35     | 38                         | 30                 | 36     | 36        | 210    | 6       |
| 15       | 15 Natural marble of stairs                         | ш              | 200    | 200    | 115                        | 150                | 150    | 150       | 965    | 6       |
| ]        |                                                     |                |        |        |                            |                    | Ö      | Continued |        |         |

## **Table 4.46 continued**

|            |                                                                                 |                |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |        | The    | The No. |
|------------|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|--------|--------|---------|
| #          | Work Items                                                                      | Unit           | 90/1/1 | 90/1/2 | 6/1/3                      | 90/1/4             | 90/1/5 | 90/1/6 | Total  | Of      |
|            |                                                                                 |                |        |        | Items Pri                  | Items Prices in SR |        |        | Prices | Samples |
| <u>1</u> 2 | Plastic weather-resistant paints                                                | m²             | 50     | 50     | 33                         | 40                 | 42     | *      | 215    | 9       |
| 12         | 17 White glazed ceramic tiles                                                   | m²             | 60     | 09     | 74                         | 60                 | 75     | 75     | 404    | 9       |
| 81         | Insulator layer for moisture                                                    | m²             | 30     | 30     | 29                         | 22                 | 32     | 42     | 185    | 9       |
| 61         | Thermal insulation, horizontal                                                  | m²             | 25     | 25     | 31                         | 30                 | 35     | 32     | 178    | 9       |
| 50         | Thermal insulation, vertical                                                    | m²             | 25     | 25     | 17                         | 16                 | 26     | 35     | 144    | 9       |
| 5          | 21 Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 60     | 40     | 50                         | 28                 | 30     | 30     | 217    | 9       |
| 22         | 22 Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 60     | 35     | 29                         | 28                 | 30     | 30     | 212    | 9       |
| 53         | 23 Aluminum windows                                                             | m²             | 450    | 450    | 479                        | 380                | 300    | 300    | 2359   | 6       |
| 24         | 24 Hollow metallic doors                                                        | m²             | 600    | 600    | 420                        | 400                | 300    | 300    | 2620   | 6       |
| 25         | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 200    | 200    | 180                        | 240                | 200    | 200    | 1220   | 9       |
| 8          | 26 Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 250    | 250    | 250                        | 250                | 300    | 300    | 1600   | 9       |
| 27         | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 950    | 1000   | 1260                       | 1200               | 1200   | 1200   | 6810   | 9       |
| 28         | Switch, A/C. window type (2x30 Amps)                                            | No.            | 250    | 250    | 200                        | 200                | 200    | 200    | 1300   | 9       |
| ନ          | 29 Lighting switch (15 Amps/127 volt)                                           | No.            | 150    | 150    | 110                        | 120                | 120    | 120    | 770    | 9       |
| ŝ          | 30 Main switchboard, school building                                            | No.            | 17000  | 17000  | 22000                      | 20000              | 18000  | 18000  | 112000 | 9       |
| 3          | 31 Main distribution panelboard                                                 | No.            | 14000  | 14000  | 22000                      | 20000              | 20000  | 20000  | 110000 | 9       |
| 32         | 32 Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ              | 120    | 120    | 119                        | 150                | 120    | 120    | 749    | 9       |
| 33         | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | m              | 190    | 190    | 175                        | 240                | 250    | 250    | 1295   | 9       |
| 34         | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 1350   | 1350   | 1800                       | 1600               | 2100   | 2100   | 10300  | 9       |
| 35         | 35 [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 300    | 300    | 250                        | 300                | 350    | 350    | 1850   | 9       |
| 8          | 36 Drinking water cooler (tank type)                                            | No.            | 2000   | 2000   | 2900                       | 2000               | 3000   | 3000   | 14900  | 6       |
| J          |                                                                                 |                |        |        |                            |                    |        |        |        |         |

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### Table 4.47 Calculation For the Base Year Prices of Price Index Items Educational Area - Jeddah Year 1990

|        |                                             |                  |        | Pro    | ject Co   | <b>Project Code Number</b> | ber    |           | The    | The No. |
|--------|---------------------------------------------|------------------|--------|--------|-----------|----------------------------|--------|-----------|--------|---------|
| 72     | Work Items                                  | Unit             | 90/2/1 | 90/2/2 | 90/2/3    | 90/2/4                     | 90/2/5 | 90/2/6    | Total  | of      |
| :      |                                             |                  |        |        | Items Pri | ltems Prices in SR         |        |           | Prices | Samples |
| -      | Excavation work                             | т<br>Г           | 5      | *      | 20        | 12                         | 17     | 20        | 74     | 9       |
| ·   ^  |                                             | Ē                | ∞      | 12     | 15        | 10                         | 17     | 15        | 77     | 6       |
| * ~    |                                             | г<br>ш           | S      | 20     | 50        | 12                         | 17     | 50        | 154    | 6       |
|        |                                             | em <sup>3</sup>  | 190    | 220    | 250       | 190                        | 239    | 250       | 1339   | 6       |
| -   r  | Reinforced concrete work for the foundation | Ē                | 600    | 750    | 800       | 650                        | 500    | 800       | 4100   | 6       |
| 2      |                                             | m2               | 25     | 30     | 35        | 90                         | 67     | 35        | 282    | 9       |
| -      | -                                           | m²               | 65     | 80     | 45        | 120                        | 57     | 45        | 412    | 6       |
| ×      |                                             | m²               | 28     | 55     | 55        | 67                         | 76     | 55        | 336    | 6       |
| 0      |                                             | m <sup>2</sup>   | 20     | 30     | 21        | 20                         | 23     | 21        | 135    | 6       |
| ٩<br>٩ |                                             | ٣                | 620    | 800    | 800       | 650                        | 756    | 800       | 4426   | 6       |
| =      | 11 CMU walls with 15 cm thickness           | m²               | 40     | 30     | 40        | 37                         | 41     | 41        | 229    | 6       |
| 2      | 12 CMU walls with 20 cm thickness           | m²               | 45     | 40     | 45        | 39                         | 48     | 45        | 262    | 9       |
| ۳<br>۲ | 13 (Glazed mosaic tiles (size 30x30x3cm)    | m²               | 45     | 55     | 60        | 56                         | 57     | 60        | 333    | 6       |
| 12     | 14 Floor tiline                             | ۲ <mark>ط</mark> | 28     | 25     | 40        | 31                         | 37     | 40        | 201    | 6       |
| Ĩ      | 15 Natural marble of stairs                 | E                | 200    | 140    | 180       | 140                        | 156    | 180       | 966    | 6       |
| :<br>  |                                             |                  |        |        |           |                            | с      | Continued |        |         |

|                  |                                                                              |                  |        | Pro    | ject Co  | <b>Project Code Number</b> | ber    |        | The    | The No. |
|------------------|------------------------------------------------------------------------------|------------------|--------|--------|----------|----------------------------|--------|--------|--------|---------|
| #                | Work Items                                                                   | Unit             | 90/2/1 | 90/2/2 | 90/2/3   | 90/2/4                     | 90/2/5 | 90/2/6 | Total  | of      |
|                  |                                                                              |                  |        |        | Items Pr | Items Prices in SR         |        |        | Prices | Samples |
| 16               | Plastic weather-resistant paints                                             | m²               | 46     | 20     | 55       | 34                         | 24     | 55     | 234    | 6       |
| 2 12             |                                                                              | г <mark>н</mark> | 54     | 65     | 50       | 53                         | 49     | 50     | 321    | 6       |
| :   <del>~</del> | Insulator laver for moisture                                                 | m²               | 42     | 30     | 20       | 47                         | 28     | 20     | 187    | 6       |
| 2 E              | Thermal insulation. horizontal                                               | m²               | 28     | 25     | 35       | 30                         | 27     | 35     | 180    | 9       |
| 2                | Thermal insulation, vertical                                                 | m²               | 22     | 20     | 30       | 27                         | 28     | 30     | 157    | 6       |
| 5                | _                                                                            | m²               | 44     | 20     | 30       | 34                         | 24     | 30     | 182    | 6       |
| 3                |                                                                              | m²               | 42     | 22     | 40       | 35                         | 24     | 40     | 203    | 6       |
| 3                | 23 Aluminum windows                                                          | m²               | 650    | 450    | 520      | 390                        | 550    | 520    | 3080   | 6       |
| 7                | 24 Hollow metallic doors                                                     | m²               | 600    | 700    | 520      | 570                        | 611    | 520    | 3521   | 6       |
| 22               | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.              | 120    | 260    | 300      | 300                        | 267    | 300    | 1547   | 6       |
| 36               | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.              | 200    | 280    | 350      | 340                        | 284    | 350    | 1804   | 6       |
| 27               | 27 I amp-post for the site (4m high with 125 watt/220 volt lamp)             | No.              | 1100   | 2000   | 2500     | 1600                       | 1267   | 2500   | 10967  | 6       |
| 28               | Switch. A/C. window type (2x30 Amps)                                         | No.              | 100    | 500    | 300      | 280                        | 239    | 300    | 1719   | 6       |
| 29               | 29 Lighting switch (15 Amps/127 volt)                                        | No.              | 60     | 140    | 200      | 210                        | 156    | 200    | 966    | 6       |
| 30               | Main switchboard, school building                                            | No.              | 32000  | 20000  | 22000    | 23000                      | 34667  | 22000  | 153667 | 9       |
| 1                |                                                                              | No.              | 35000  | 25000  | 22000    | 36000                      | 38667  | 22000  | 178667 | 6       |
| 3                | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | ٤                | 120    | 100    | 225      | 140                        | 193    | 225    | 1003   | 6       |
| 8                | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )          | ٤                | 160    | 160    | 260      | 200                        | 253    | 260    | 1293   | 6       |
| <u>5</u>         | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.              | 2000   | 1000   | 1800     | 1700                       | 1778   | 1800   | 10078  | 6       |
| 35               | 35 [Ceiling air fan {dia142cm (56in)}                                        | No.              | 220    | 350    | 400      | 330                        | 433    | 400    | 2133   | 9       |
| 36               | 36 Drinking water cooler (tank type)                                         | No.              | 2400   | 2500   | 3000     | 3300                       | 2333   | 3000   | 16533  | 6       |

## **Table 4.47 continued**

# Table 4.48Calculation For the Base Year Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1990

| L  |                                                     |                 |        | Pro    | ject Coc  | Project Code Number | ber    |           | The    | The No. |
|----|-----------------------------------------------------|-----------------|--------|--------|-----------|---------------------|--------|-----------|--------|---------|
| #  | Work Items                                          | Unit            | 90/3/1 | 90/3/2 | 90/3/3    | 90/3/4              | 90/3/5 | 90/3/6    | Total  | JO      |
|    |                                                     |                 |        |        | Items Pri | Items Prices in SR  |        |           | Prices | Samples |
| -  | Excavation work                                     | m <sup>3</sup>  | 10     | *      | 12        | 11                  | *      | 9         | 39     | 6       |
| 2  | Backfilling work                                    | ۳ <sup>3</sup>  | 14     | 14     | 14        | 6                   | 9      | 8         | 62     | 6       |
| 3  | Excavation work for the foundation                  | m <sup>ع</sup>  | 22     | 25     | 16        | 12                  | 8      | 7         | 90     | 6       |
| 4  |                                                     | °m              | 173    | 173    | 173       | 173                 | 180    | 180       | 1052   | 9       |
| ~  | Reinforced concrete work for the foundation         | ъ               | 570    | 560    | 560       | 570                 | 540    | 540       | 3340   | 9       |
| 9  | Natural crushed stone sub-base coarse               | m²              | 125    | 125    | 125       | 125                 | 30     | 30        | 560    | 9       |
| -  | Building made from Calcium Silicate Bricks          | m²              | 58     | 58     | 58        | 58                  | 40     | 40        | 312    | 6       |
| ∞  | -                                                   | m²              | 56     | 56     | 30        | 56                  | 45     | 45        | 288    | 6       |
| ٥  |                                                     | m²              | 18     | 18     | 18        | 18                  | 25     | 25        | 122    | 9       |
| 2  | 10 Reinforced concrete for the whole superstrucutre | em <sup>3</sup> | 620    | 620    | 620       | 620                 | 575    | 575       | 3630   | 6       |
| =  | 11 CMU walls with 15 cm thickness                   | m²              | 28     | 28     | 28        | 28                  | 40     | 40        | 192    | 6       |
| 12 | CMU walls with 20 cm thickness                      | m <sup>2</sup>  | 31     | 31     | 31        | 31                  | 45     | 45        | 214    | 6       |
| 13 | Glazed mosaic tiles (size 30x30x3cm)                | m <sup>2</sup>  | 48     | 48     | 48        | 48                  | 50     | 50        | 292    | 6       |
| 4  | 14 Floor tiling                                     | m²              | 32     | 32     | 32        | 32                  | 35     | 35        | 198    | 6       |
| £  | 15 Natural marble of stairs                         | m               | 132    | 132    | 132       | 132                 | 150    | 150       | 828    | 6       |
|    |                                                     |                 |        |        |           |                     | ບ      | Continued | •      |         |

| L        |                                                                                 | $\square$      |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |        | The    | The No. |
|----------|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|--------|--------|---------|
| #        | Work Items                                                                      | Unit           | 90/3/1 | 90/3/2 | 90/3/3                     | 90/3/4             | 90/3/5 | 90/3/6 | Total  | Q       |
| -        |                                                                                 |                |        |        | Items Pri                  | Items Prices in SR |        |        | Prices | Samples |
| 9        | Plastic weather-resistant paints                                                | m²             | 28     | 28     | 28                         | 28                 | 28     | 25     | 165    | 6       |
| 1        | White glazed ceramic tiles                                                      | m²             | 58     | 58     | 58                         | 58                 | 80     | 80     | 392    | 6       |
| e<br>E   | -                                                                               | m <sup>2</sup> | 45     | 45     | 45                         | 45                 | 8      | 8      | 196    | 6       |
| <u>9</u> |                                                                                 | m²             | 27     | 27     | 27                         | 27                 | 25     | 25     | 158    | 6       |
| 20       |                                                                                 | m²             | 19     | 19     | 19                         | 19                 | 22     | 22     | 120    | 6       |
| 5        | Plastic paints for interior walls ( smooth American Texture )                   | m²             | 26     | 26     | 26                         | 26                 | 25     | 25     | 154    | 6       |
| 22       | Plastic paints for interior ceilings (smooth American Texture)                  | m²             | 26     | 26     | 26                         | 26                 | 25     | 25     | 154    | 6       |
| 33       | Aluminum windows                                                                | m²             | 421    | 421    | 300                        | 421                | 450    | 450    | 2463   | 6       |
| 24       | Hollow metallic doors                                                           | m²             | 450    | 450    | 450                        | 450                | 350    | 350    | 2500   | 6       |
| 25       | 25 Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 316    | 316    | 316                        | 316                | 220    | 220    | 1704   | 6       |
| 26       | Fluorescent lighting fixture. (2x40 watt) with reflector                        | No.            | 360    | 360    | 360                        | 360                | 220    | 220    | 1880   | 6       |
| 27       | 11 ann-nost for the site (4m high with 125 watt/220 volt lump)                  | No.            | 1040   | 1090   | 1110                       | 1015               | 1000   | 1000   | 6255   | 6       |
| 28       | Switch, A/C, window type (2x30 Amps)                                            | No.            | 240    | 240    | 240                        | 240                | 120    | 120    | 1200   | 6       |
| 29       | Lighting switch (15 Amps/127 volt)                                              | No.            | 190    | 190    | 190                        | 190                | 70     | 70     | 900    | 6       |
| R        | Main switchboard, school building                                               | No.            | 20000  | 20000  | 20000                      | 20000              | 18000  | 11000  | 109000 | 6       |
| 31       | Main distribution panelboard                                                    | No.            | 21250  | 21250  | 21250                      | 21250              | 18000  | 18000  | 121000 | 6       |
| 32       | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | H              | 138    | 146    | 138                        | 138                | 130    | 130    | 820    | 6       |
| 3        | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )                | Ħ              | 192    | 200    | 192                        | 192                | 180    | 180    | 1136   | 6       |
| 34       | A/C unit windows type (cool/heat 1800 BUT/h,KW)                                 | No.            | 1725   | 1725   | 1725                       | 1725               | 1800   | 1800   | 10500  | 6       |
| 35       |                                                                                 | No.            | 381    | 381    | 381                        | 381                | 240    | 240    | 2004   | 6       |
| 36       | 36 Drinking water cooler (tank type)                                            | No.            | 2818   | 2818   | 2818                       | 2818               | 1500   | 1500   | 14272  | 6       |
|          |                                                                                 |                |        |        |                            |                    |        |        |        |         |

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## **Table 4.48 continued**

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### Table 4.49 Calculation of the Prices of Price Index Items Educational Area - Riyadh Ycar 1991

|    |                                                     |                 |        | Pro    | ject Co  | <b>Project Code Number</b> | ber    |           | The    | The No. |
|----|-----------------------------------------------------|-----------------|--------|--------|----------|----------------------------|--------|-----------|--------|---------|
| #  | Work Items                                          | Unit            | 1/1/16 | 91/1/2 | 91/1/3   | 91/1/4                     | 91/1/5 | 91/1/6    | Total  | Oſ      |
|    |                                                     |                 |        |        | Items Pr | Items Prices in SR         |        |           | Prices | Samples |
| -  | Excavation work                                     | г<br>ш          | 5      | 12     | 15       | 10                         | 5      | 45        | 92     | 9       |
| 7  | Backfilling work                                    | em <sup>3</sup> | 15     | 25     | 10       | 10                         | 10     | 15        | 85     | 6       |
| m  | Excavation work for the foundation                  | еш              | 40     | 45     | 40       | 40                         | 40     | 35        | 240    | 9       |
| 4  | Plain concrete work under the foundation            | m <sup>3</sup>  | 180    | 180    | 180      | 180                        | 180    | 200       | 1100   | 9       |
| S  | Reinforced concrete work for the foundation         | еш              | 630    | 620    | 680      | 620                        | 620    | 400       | 3570   | 9       |
| 9  | Natural crushed stone sub-base coarse               | m²              | 30     | 35     | 30       | 30                         | 30     | 25        | 180    | 6       |
| 2  | Building made from Calcium Silicate Bricks          | m <sup>2</sup>  | 90     | 90     | 90       | 90                         | 90     | 100       | 550    | 6       |
| ∞  | Concrete pavers (40x40x5cm)                         | m²              | 52     | 52     | 52       | 52                         | 52     | 45        | 305    | 6       |
| 6  | Plain concrete with 10 cm thickness                 | m <sup>2</sup>  | 16     | 16     | 16       | 16                         | 16     | 20        | 100    | 6       |
| 0  | 10 Reinforced concrete for the whole superstructure | em <sup>3</sup> | 650    | 650    | 650      | 650                        | 650    | 500       | 3750   | 6       |
| Ξ  | 11 CMU walls with 15 cm thickness                   | m²              | 30     | 30     | 30       | 30                         | 30     | 40        | 190    | 6       |
| 12 | 12 CMU walls with 20 cm thickness                   | m²              | 33     | 33     | 33       | 33                         | 33     | 45        | 210    | 6       |
| 13 | 13 Glazed mosaic tiles (size 30x30x3cm)             | m²              | 52     | 52     | 52       | 52                         | 52     | 45        | 305    | 6       |
| 14 | 14 Floor tiling                                     | m <sup>2</sup>  | 35     | 35     | 35       | 35                         | 35     | 30        | 205    | 6       |
| 15 | 15 Natural marble of stairs                         | m               | 160    | 160    | 160      | 160                        | 160    | 150       | 950    | 6       |
|    |                                                     |                 |        |        |          |                            | Ŭ      | Continued |        |         |

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### Prices Total The 91/1/6 91/1/3 91/1/4 91/1/5 ß **Project Code Number Items Prices in SR** 91/1/2 ຊ 1/1/16 ß Unit Ŝ No. 'n. °Z No. No. ិន ខែ m² m² Ē m² ĩ m\_ Ъ, 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted Plastic paints for interior ceilings (smooth American Texture) 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp) Plastic paints for interior walls (smooth American Texture) 26 [Fluorescent lighting fixture, (2x40 watt) with reflector Work Items Switch, A/C. window type (2x30 Amps) Lighting switch (15 Amps/127 volt) Main switchboard, school building Plastic weather-resistant paints 19 Thermal insulation, horizontal Thermal insulation, vertical Insulator layer for moisture White glazed ceramic tiles Hollow metallic doors Aluminum windows

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## **Table 4.49 continued**

Samples

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Reinforced thermoplastic cable (size 30x240x120mm<sup>2</sup> A/C unit windows type (cool/heat 1800 BUT/h,KW)

Ceiling air fan {dia 142cm (56in)} Drinking water cooler (tank type)

Thermoplastic cable (size 3x185x95 mm<sup>2</sup>)

Main distribution panelboard

 No.

211.5  Ň,

The No. õ

## Table 4.50Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1991

|        |                                                     |                 |         | Pro    | <b>Project Code Number</b> | le Numi   | ber    |           | The    | The No. |
|--------|-----------------------------------------------------|-----------------|---------|--------|----------------------------|-----------|--------|-----------|--------|---------|
| #±     | Work Items                                          | Unit            | 91/2/16 | 91/2/2 | 91/2/3                     | 91/2/4    | 91/2/5 | 91/2/6    | Total  | JO      |
|        |                                                     |                 |         |        | ltems Prices in SR         | ces in SR |        |           | Prices | Samples |
| -      | Bxcavation work                                     | ۳.              | 15      | 15     | 10                         | 15        | 15     | 3         | 73     | 6       |
| 2      |                                                     | ٤m              | 25      | *      | 15                         | *         | *      | 15        | 55     | 6       |
| 6      | _                                                   | m <sup>3</sup>  | 25      | 20     | 15                         | 20        | 20     | 60        | 160    | 6       |
| 4      | Plain concrete work under the foundation            | em <sup>3</sup> | 300     | 300    | 300                        | 300       | 325    | 220       | 1745   | 6       |
| ~      |                                                     | em <sup>3</sup> | 650     | 650    | 650                        | 650       | 700    | 750       | 4050   | 6       |
| ∽      |                                                     | m <sup>2</sup>  | 99      | 66     | 66                         | 66        | 66     | 35        | 365    | 6       |
| 5      |                                                     | m²              | 140     | 140    | 140                        | 140       | 140    | 60        | 760    | 6       |
| ∞      |                                                     | m²              | 50      | 75     | 75                         | 75        | 75     | 70        | 420    | 6       |
| 0      |                                                     | m²              | 18      | 18     | 18                         | 18        | 18     | 25        | 115    | 6       |
| ≏      | 10 Reinforced concrete for the whole superstrucutre | ۳ <sup>3</sup>  | 700     | 700    | 700                        | 700       | 750    | 750       | 4300   | 6       |
| Ξ      | 11 CMU walls with 15 cm thickness                   | ın²             | 42      | 42     | 42                         | 42        | 42     | 35        | 245    | 6       |
| 12     | 12 CMU walls with 20 cm thickness                   | m²              | 46      | 46     | 46                         | 46        | 46     | 40        | 270    | 6       |
| ۳<br>ا | 13 Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup>  | 60      | 60     | 60                         | 60        | 60     | 40        | 340    | 6       |
| 4      | 14 Floor tiling                                     | m²              | 35      | 35     | 35                         | 35        | 35     | 30        | 205    | 6       |
| 12     | 15 Natural marble of stairs                         | Ħ               | 190     | 190    | 190                        | 190       | 190    | 150       | 1100   | 6       |
| ]      |                                                     |                 |         |        |                            |           | Ŭ      | Continued |        |         |

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## **Table 4.50 continued**

|          |                                                                                 |                |           | Pro       | <b>Project Code Number</b> | de Num    | ber    |        | The    | The No. |
|----------|---------------------------------------------------------------------------------|----------------|-----------|-----------|----------------------------|-----------|--------|--------|--------|---------|
| #        | Work Items                                                                      | Unit           | 91/2/1    | 91/2/2    | 91/2/3                     | 91/2/4    | 91/2/5 | 91/2/6 | Total  | oſ      |
|          |                                                                                 |                |           |           | Items Prices in SR         | ces in SR |        | -      | Prices | Samples |
| 91       | 16 Plastic weather-resistant paints                                             | m <sup>2</sup> | 40        | 40        | 40                         | 40        | 40     | 45     | 245    | 6       |
| 1        | 17 White glazed ceramic tiles                                                   | m²             | <u>66</u> | <u>66</u> | 66                         | 66        | 66     | 53     | 383    | 6       |
| 18       | Insulator layer for moisture                                                    | m <sup>2</sup> | 25        | 25        | 25                         | 25        | 25     | 15     | 140    | 6       |
| 61       | 19 Thermal insulation, horizontal                                               | m <sup>2</sup> | 14        | 18        | 18                         | 18        | 18     | 20     | 106    | 6       |
| 2        | 20 Thermal insulation, vertical                                                 | m²             | 14        | 14        | 14                         | 14        | 14     | 20     | 90     | 9       |
| ភ        | 21 Plastic paints for interior walls ( smooth American Texture )                | m²             | 34        | 34        | 34                         | 34        | 34     | 35     | 205    | 9       |
| 2        | 22 Plastic paints for interior ceilings ( smooth American Texture )             | m²             | 30        | 30        | 30                         | 30        | 30     | 45     | 195    | 9       |
| ន        | 23 Aluminum windows                                                             | m²             | 350       | 350       | 350                        | 350       | 350    | 320    | 2070   | 9       |
| 2        | 24 Hollow metallic doors                                                        | m <sup>2</sup> | 400       | 400       | 400                        | 400       | 400    | 200    | 2200   | 6       |
| ន        | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 285       | 285       | 285                        | 285       | 285    | 180    | 1605   | 6       |
| 26       | Fluorescent lighting fixture, (2x40 watt) with reflector                        | No.            | 385       | 385       | 385                        | 385       | 385    | 230    | 2155   | 6       |
| 27       | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1100      | 1100      | 1100                       | 1100      | 1100   | 1500   | 7000   | 6       |
| 78       | 28 Switch, A/C. window type (2x30 Amps)                                         | No.            | 155       | 155       | 155                        | 155       | 155    | 100    | 875    | 9       |
| 50       | 29 Lighting switch (15 Amps/127 volt)                                           | No.            | 140       | 140       | 140                        | 140       | 140    | 150    | 850    | 6       |
| 8        | 30 Main switchboard, school building                                            | No.            | 35000     | 35000     | 35000                      | 35000     | 35000  | 25000  | 200000 | 6       |
| <u>۳</u> | 31 Main distribution panelboard                                                 | No.            | 39000     | 39000     | 39000                      | 39000     | 39000  | 30000  | 225000 | 6       |
| 33       | 32 Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | u              | 170       | 175       | 175                        | 175       | 175    | 200    | 1070   | 6       |
| 8        | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 205       | 205       | 205                        | 205       | 205    | 250    | 1275   | 6       |
| 34       | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 1650      | 1650      | 1650                       | 1650      | 1650   | 2000   | 10250  | 6       |
| 35       | 35 [Ceiling air fan {dia142cm (56in)}                                           | No.            | 350       | 350       | 350                        | 350       | 350    | 220    | 1970   | 6       |
| 8        | 36 Drinking water cooler (tank type)                                            | No.            | 2000      | 2000      | 2000                       | 2000      | 2000   | 2000   | 12000  | 9       |
| ]        |                                                                                 |                |           |           |                            |           |        |        |        |         |

## Table 4.51Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1991

|              |                                                     |                |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |           | The    | The No. |
|--------------|-----------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|-----------|--------|---------|
| #            | Work Items                                          | Unit           | 91/3/1 | 91/3/2 | 91/3/3                     | 91/3/4             | 91/3/5 | 91/3/6    | Total  | JO      |
| E            |                                                     |                |        |        | Items Pr                   | Items Prices in SR | ~      |           | Prices | Samples |
| -            | Recordion work                                      | ٦.<br>E        | 15     | 20     | 5                          | 20                 | *      | 12        | 72     | 9       |
| - ^          |                                                     | Ē              | 15     | 20     | 13.5                       | 20                 | 20     | 14        | 103    | 9       |
| 1 "          |                                                     | е<br>Ш         | 60     | 80     | 20                         | 50                 | 80     | 23        | 313    | 9       |
|              |                                                     | е<br>Г         | 250    | 250    | 200                        | 250                | 250    | 173       | 1373   | 6       |
| r   v        |                                                     | с<br>Ш         | 650    | 650    | 630                        | 650                | 650    | 570       | 3800   | 9       |
| - <b>-</b>   |                                                     | m²             | 50     | 50     | 80                         | 50                 | 20     | 125       | 405    | 9       |
| 가            | _                                                   | ш <sup>2</sup> | 60     | •      | •                          | 60                 | 60     | 58        | 238    | 9       |
| - 0          | _                                                   | щ <sup>2</sup> | 30     | 30     | 40                         | 30                 | 30     | 56        | 216    | 9       |
| • •          |                                                     | m²             | 20     | 20     | 20                         | 20                 | 20     | 18        | 118    | 6       |
| 19           | 10 Deinforced concrete for the whole superstructure | ۴              | 750    | 750    | 700                        | 750                | 750    | 620       | 4320   | 9       |
| 2 =          | 11 CMI waits with 15 cm thickness                   | m²             | 40     | 40     | 30                         | 40                 | 40     | 28        | 218    | 9       |
| : 2          | 12 ICMII walts with 20 cm thickness                 | m²             | 45     | 45     | 33                         | 45                 | 45     | 30        | 243    | 9       |
| 12           | 13 [Glazed mosaic tiles (size 30x30x3cm)            | m²             | 35     | 35 -   | 33                         | 35                 | 35     | 48        | 221    | 9       |
| 2            | 14 Floor filing                                     | Ĩ              | 26     | 26     | 26                         | 26                 | 26     | 32        | 162    | 9       |
| : - <u>`</u> | 15 Natural marhle of stairs                         | æ              | 200    | 200    | 110                        | 200                | 200    | 132       | 1042   | 9       |
| Ľ            |                                                     |                |        |        |                            |                    | 0      | Continued | -      |         |

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|    |                                                                                 |                |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |        | The    | The No. |
|----|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|--------|--------|---------|
| #  | Work Items                                                                      | Unit           | 91/3/1 | 91/3/2 | 91/3/3                     | 91/3/4             | 91/3/5 | 91/3/6 | Total  | oſ      |
|    |                                                                                 |                |        |        | Items Pr                   | Items Prices in SR | x      |        | Prices | Samples |
| 16 | Plastic weather-resistant paints                                                | m²             | 35     | 35     | 14                         | 35                 | 35     | 30     | 184    | 6       |
| 1  | 17 White glazed ceramic tiles                                                   | m <sup>2</sup> | 70     | 70     | 50                         | 70                 | 70     | 58     | 388    | 6       |
| 18 | Insulator layer for moisture                                                    | m²             | 20     | 20     | 36                         | 20                 | 20     | 45     | 161    | 6       |
| 61 | Thermal insulation, horizontal                                                  | m²             | 22     | 22     | 31                         | 22                 | 22     | 27     | 146    | 6       |
| 20 | Thermal insulation, vertical                                                    | m <sup>2</sup> | 18     | 18     | 18                         | 18                 | 18     | 19     | 109    | 6       |
| 21 | Plastic paints for interior walls ( smooth American Texture )                   | m²             | 35     | 35     | 14                         | 35                 | 35     | 28     | 182    | 6       |
| 22 | 22 Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 35     | 35     | 15                         | 35                 | 35     | 28     | 183    | 6       |
| 23 | Aluminum windows                                                                | m²             | 320    | 320    | 340                        | 320                | 320    | 439    | 2059   | 6       |
| 24 | 24 Hollow metallic doors                                                        | m <sup>2</sup> | 300    | 300    | 620                        | 300                | 300    | 450    | 2270   | 6       |
| 25 | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 320    | 320    | 320                        | 320                | 320    | 316    | 1916   | 6       |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                        | No.            | 360    | 360    | 350                        | 360                | 360    | 360    | 2150   | 6       |
| 27 | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1000   | 1000   | 560                        | 1000               | 1000   | 1185   | 5745   | 6       |
| 28 | Switch, A/C. window type (2x30 Amps)                                            | No.            | 500    | 500    | 245                        | 500                | 500    | 240    | 2485   | 6       |
| 29 | 29 Lighting switch (15 Amps/127 volt)                                           | No.            | 250    | 250    | 200                        | 250                | 250    | 190    | 1390   | 6       |
| 8  | 30 Main switchboard, school building                                            | No.            | 40000  | 40000  | 25000                      | 40000              | 40000  | 20000  | 205000 | 6       |
| 31 | 31 Main distribution panelboard                                                 | No.            | 45000  | 45000  | 32000                      | 45000              | 45000  | 21250  | 233250 | 6       |
| 32 | 32 Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 140    | 140    | 235                        | 140                | 140    | 138    | 933    | 6       |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )                | u              | 150    | 180    | 320                        | 180                | 180    | 192    | 1202   | 6       |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                                 | No.            | 1400   | 1400   | 1710                       | 1400               | 1400   | 1725   | 9035   | 6       |
| 35 | 35  Ceiling air fan dia {142cm (56in)}                                          | No.            | 400    | 400    | 370                        | 400                | 400    | 381    | 2351   | 6       |
| 36 | 36 Drinking water cooler (tank type)                                            | No.            | 3000   | 3000   | 3500                       | 3000               | 3000   | 2818   | 18318  | 6       |
| ]  |                                                                                 |                |        |        |                            |                    |        |        |        |         |

## Table 4.52Calculation of the Prices of Price Index ItemsEducational Area - RiyadhYear 1992

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |        | Pro    | <b>Project Code Number</b> | le Num             | ber    |           | The    | The No. |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------|--------|----------------------------|--------------------|--------|-----------|--------|---------|
| **           | Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit             | 92/1/1 | 92/1/2 | 92/1/3                     | 92/1/4             | 92/1/5 |           | Total  | õ       |
| :            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | •                |        |        | Items P                    | Items Prices in SR | R      |           | Prices | Samples |
| -            | Recevetion work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ē                | 15     | 8      | 15                         | 10                 | 15     |           | 145    | 5       |
| - -          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | °.               | 10     | 29     | 12                         | 25                 | 10     |           | 86     | 5       |
| 1 "          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | г <mark>н</mark> | 15     | 35     | 30                         | 50                 | 15     |           | 145    | 5       |
| <u>-</u>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | °.               | 250    | 157    | 250                        | 180                | 200    |           | 1037   | 5       |
| * <b> </b> * |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ۳.               | 700    | 450    | 700                        | 650                | 700    |           | 3200   | 5       |
|              | Natural crushed stone sub-base coarse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | г <mark>н</mark> | 30     | 28     | 40                         | 25                 | 30     |           | 153    | 5       |
| <u>،</u>     | Ruilding made from Calcium Silicate Bricks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m²               | 60     | 58     | 90                         | 110                | 60     |           | 378    | 5       |
| - 0          | - T-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <sup>2</sup> ط   | 40     | 48     | 45                         | 60                 | 35     |           | 228    | 5       |
| • •          | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <sup>م</sup>     | 30     | 91     | 25                         | 18                 | 25     |           | 114    | 5       |
| ļ            | I rain converte with the whole superstructife                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ē                | 700    | 475    | 800                        | 700                | 700    |           | 3375   | 5       |
| 리=           | 11 CMII walls with 15 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ۳<br>۳           | 60     | 28     | 35                         | 34                 | 45     |           | 202    | 5       |
| : 2          | 13 POMIT worth 20 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m²               | 20     | 29     | 40                         | 35                 | 60     |           | 234    | 5       |
| 12           | 12 Civity mains what we show an environment of the series | т <sup>2</sup> ш | 40     | 35     | 45                         | 48                 | 40     |           | 208    | 5       |
| 12           | 1.2 Utace attours area corrections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | т <sup>2</sup>   | 25     | 25     | 25                         | 38                 | 25     |           | 138    | 5       |
| 1-           | 15 Natural marhle of stairs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ٤                | 200    | 120    | 150                        | 140                | 200    |           | 810    | 5       |
| 3            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |        |        |                            |                    | రి     | Continued |        |         |

## **Table 4.52 continued**

|          |                                                                                 |      |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |    | The    | The No. |
|----------|---------------------------------------------------------------------------------|------|--------|--------|----------------------------|--------------------|--------|----|--------|---------|
| 71:      | Work Items                                                                      | Unit | 92/1/1 | 92/1/2 | 92/1/3                     | 92/1/4             | 92/1/5 | T  | Total  | oſ      |
|          |                                                                                 |      |        |        | Items P                    | Items Prices in SR | R      | PI | Prices | Samples |
| 2        | 16  Plastic weather-resistant paints                                            | m²   | 40     | 13     | 6                          | 25                 | 20     |    | 105    | 5       |
| 12       | 17 White glazed ceramic tiles                                                   | m²   | 70     | 52     | 60                         | 50                 | 01     |    | 302    | 5       |
| <b>≊</b> | 18 Insulator layer for moisture                                                 | m²   | 25     | 50     | 30                         | 50                 | 27     |    | 182    | 5       |
| <b>≙</b> | 19 [Thermal insulation, horizontal                                              | m²   | 30     | 44     | 25                         | 35                 | 30     | 1  | 164    | 5       |
| ຊ        | 20 [Thermal insulation, vertical                                                | m²   | 20     | 26     | 20                         | 27                 | 30     |    | 123    | 5       |
| 5        | 21 Plastic paints for interior walls (smooth American Texture)                  | m²   | 25     | 13     | 8                          | 20                 | 25     |    | 91     | 5       |
| 22       | 22 [Plastic paints for interior ceilings (smooth American Texture)              | m²   | 25     | 14     | 8                          | 20                 | 25     |    | 92     | 5       |
| 33       | 23 Aluminum windows                                                             | m²   | 400    | 330    | 400                        | 350                | 400    | 1  | 1880   | 5       |
| 24       | 24 Hollow metallic doors                                                        | m²   | 600    | 300    | 500                        | 600                | 600    | 2  | 2600   | 5       |
| 25       | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover celling mounted | No.  | 350    | 80     | 250                        | 200                | 350    | 1  | 1230   | 5       |
| 8        |                                                                                 | No.  | 400    | 63     | 300                        | 250                | 400    | 1  | 1443   | 5       |
| 27       | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.  | 1600   | 250    | 2000                       | 800                | 1600   | 9  | 6250   | 5       |
| 28       | Switch, A/C. window type (2x30 Amps)                                            | No.  | 200    | 70     | 500                        | 300                | 200    | 1  | 1270   | 5       |
| 67       | 29 Lighting switch (15 Amps/127 volt)                                           | No.  | 120    | 54     | 160                        | 150                | 120    | 6  | 604    | 5       |
| ŝ        | 30 Main switchboard, school building                                            | No.  | 8500   | 26000  | 30000                      | 15000              | 8500   | 88 | 88000  | 5       |
| <u>س</u> | Main distribution panelboard                                                    | No.  | 10000  | 34000  | 35000                      | 18000              | 10000  | 10 | 000/01 | 5       |
| 32       | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | æ    | 90     | 133    | 180                        | 100                | 06     | S  | 593    | 5       |
| 33       | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E    | 160    | 135    | 220                        | 180                | 160    | 8  | 855    | 5       |
| 2        | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.  | 2000   | 1480   | 1300                       | 1500               | 2000   | 8  | 8280   | 5       |
| 35       | 35 Ceiling air fan {dia 142cm (56in)}                                           | No.  | 350    | 157    | 400                        | 250                | 400    | 1  | 1557   | 5       |
| 36       | 36 Drinking water cooler (tank type)                                            | No.  | 3500   | 2700   | 2500                       | 1800               | 3500   | 14 | 14000  | 5       |
| ]        |                                                                                 |      |        |        |                            |                    |        |    |        |         |

## Table 4.53 Calculation of the Prices of Price Index Items Educational Area - Jeddah Year 1992

|    |                                                     |                 |        | Pro    | ject Coi  | <b>Project Code Number</b> | ber    |           | The    | The No. |
|----|-----------------------------------------------------|-----------------|--------|--------|-----------|----------------------------|--------|-----------|--------|---------|
| #  | Work Items                                          | Unit            | 92/2/1 | 92/2/2 | 92/2/3    | 92/2/4                     | 92/2/5 | 92/2/6    | Total  | JO      |
|    |                                                     |                 |        |        | (tems Pri | <b>Items Prices in SR</b>  |        |           | Prices | Samples |
| -  | Excavation work                                     | °m              | 10     | 10     | *         | 10                         | 10     | 40        | 80     | 6       |
| 2  |                                                     | em <sup>3</sup> | 15     | 15     | 15        | 15                         | 15     | 15        | 90     | 9       |
| ~  |                                                     | rm <sup>3</sup> | 20     | 25     | 20        | 20                         | 20     | 20        | 125    | 6       |
| 4  |                                                     | m³              | 338    | 308    | 308       | 308                        | 308    | 250       | 1820   | 6       |
| ŝ  |                                                     | ะแ              | 750    | 745    | 745       | 750                        | 745    | 750       | 4485   | 9       |
| °  |                                                     | m²              | 33     | 33     | 33        | 33                         | 33     | 40        | 205    | 9       |
| 5  | Building made from Calcium Silicate Bricks          | m²              | 124    | 124    | 124       | 124                        | 124    | 90        | 710    | 9       |
| ∞  | Concrete payers (40x40x5cm)                         | m <sup>2</sup>  | 47     | 47     | 47        | 47                         | 47     | 50        | 285    | 6       |
| 0  |                                                     | m²              | 25     | 25     | 25        | 25                         | 25     | 25        | 150    | 6       |
| 2  | 10 Reinforced concrete for the whole superstrucutre | т <sup>3</sup>  | 828    | 808    | 800       | 808                        | 800    | 850       | 4894   | 6       |
| =  | 11 CMU walls with 15 cm thickness                   | m²              | 61     | 61     | 61        | 61                         | 61     | 38        | 343    | 6       |
| 12 | 12 CMU walls with 20 cm thickness                   | m²              | 64     | 64     | 64        | 64                         | 64     | 40        | 360    | 9       |
| 13 | 13 Glazed mosaic tiles (size 30x30x3cm)             | m²              | 63     | 63     | 63        | 63                         | 63     | 50        | 365    | 6       |
| 4  | 14 Floor tiling                                     | $m^2$           | 30     | 30     | 30        | 30                         | 30     | 30        | 180    | 6       |
| ≌  | 15 Natural marble of stairs                         | Ħ               | 163    | 163    | 163       | 163                        | 163    | 160       | 975    | 6       |
| ]  |                                                     |                 |        |        |           |                            | Ŭ      | Continued |        |         |

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|    |                                                                                 |                |        | Pro    | <b>Project Code Number</b> | de Num    | ber    |        | The    | The No. |
|----|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|-----------|--------|--------|--------|---------|
| #  | Work Items                                                                      | Unit           | 92/2/1 | 92/2/2 | 92/2/3                     | 92/2/4    | 92/2/5 | 92/2/6 | Total  | JO      |
|    |                                                                                 |                |        |        | Items Prices in SR         | ces in SR |        |        | Prices | Samples |
| 16 | 16 Plastic weather-resistant paints                                             | m <sup>2</sup> | 15     | 15     | 15                         | 15        | 15     | 8      | 83     | 6       |
| 1  | 17 White glazed ceramic tiles                                                   | m²             | 53     | 53     | 53                         | 53        | 53     | 60     | 325    | 6       |
| 18 | 18 Insulator layer for moisture                                                 | m²             | 60     | 60     | 60                         | 60        | 60     | 30     | 330    | 6       |
| 6  | 19 Thermal insulation, horizontal                                               | m²             | 18     | 18     | 18                         | 18        | 18     | 25     | 115    | 6       |
| 8  | Thermal insulation, vertical                                                    | m²             | 30     | 30     | 30                         | 30        | 30     | 20     | 170    | 6       |
| 51 | 21 Plastic paints for interior walls ( smooth American Texture )                | m²             | 15     | 15     | 15                         | 15        | 15     | 8      | 83     | 6       |
| 22 | 22 Plastic paints for interior ceilings ( smooth American Texture )             | m²             | 15     | 15     | 15                         | 15        | 15     | 8      | 83     | 6       |
| 23 | Aluminum windows                                                                | m²             | 400    | 400    | 400                        | 400       | 400    | 400    | 2400   | 6       |
| 24 | 24 Hollow metallic doors                                                        | m²             | 1100   | 1100   | 1100                       | 1100      | 1100   | 500    | 6000   | 6       |
| 25 | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 170    | 170    | 170                        | 170       | 170    | 250    | 1100   | 6       |
| 26 | 26 Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 259    | 259    | 259                        | 259       | 259    | 300    | 1595   | 6       |
| 27 | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 2100   | 2100   | 2100                       | 2100      | 2100   | 2000   | 12500  | 6       |
| 28 | Switch, A/C. window type (2x30 Amps)                                            | No.            | 195    | 195    | 195                        | 195       | 195    | 500    | 1475   | 6       |
| 29 | 29 Lighting switch (15 Amps/127 volt)                                           | No.            | 110    | 110    | 110                        | 110       | 110    | 150    | 700    | 6       |
| 8  | 30 Main switchboard, school building                                            | No.            | 17400  | 17400  | 17400                      | 17400     | 17400  | 25000  | 112000 | 6       |
| 31 | 31 Main distribution panelboard                                                 | No.            | 17400  | 17400  | 17400                      | 17400     | 17400  | 30000  | 117000 | 6       |
| 32 | 32 Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | Ħ              | 66     | 66     | 66                         | 66        | 66     | 150    | 645    | 6       |
| 33 | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 165    | 165    | 165                        | 165       | 165    | 220    | 1045   | 6       |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                                 | No.            | 1400   | 1400   | 1400                       | 1400      | 1400   | 1300   | 8300   | 6       |
| 35 | 35  Ceiling air fan {dia142cm (56in)}                                           | No.            | 665    | 665    | 665                        | 665       | 665    | 400    | 3725   | 6       |
| 36 | 36 Drinking water cooler (tank type)                                            | No.            | 2000   | 2000   | 2000                       | 2000      | 2000   | 2500   | 12500  | 6       |
| ļ  |                                                                                 |                |        |        |                            |           |        |        |        |         |

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# Table 4.54Calculation of the Prices of Price Index ItemsEducational Area - Eastern Province

Year 1992

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|        |                                                  |                |        | Pro    | lect Cot | <b>Project Code Number</b> | ber    |           | The    | The No. |
|--------|--------------------------------------------------|----------------|--------|--------|----------|----------------------------|--------|-----------|--------|---------|
| #      | Work Items                                       | Unit           | 92/3/1 | 92/3/2 | 92/3/3   | 92/3/4                     | 92/3/5 | 92/3/6    | Total  | of      |
|        | -                                                |                |        |        | Items P  | ltems Prices in SR         | R      |           | Prices | Samples |
| -      | Excavation work                                  | ш <sup>3</sup> |        | 11     | 12       | 11                         | 40     | 40        | 114    | 9       |
| 2      | 2 Backfilling work                               | m <sup>3</sup> | 6      | 6      | 7        | 6                          | 15     | 15        | 55     | 9       |
| 6      | Excavation work for the foundation               | m <sup>3</sup> | 20     | 12     | 12       | 15                         | 40     | 40        | 139    | 6       |
| 4      |                                                  | m <sup>3</sup> | 173    | 173    | 200      | 180                        | 250    | 250       | 1226   | 6       |
| s<br>N |                                                  | m <sup>3</sup> | 580    | 580    | 575      | 580                        | 700    | 700       | 3715   | 6       |
| °      |                                                  | m <sup>2</sup> | 82     | 60     | 120      | 60                         | 60     | 60        | 442    | 9       |
| 5      | Building made from Calcium Silicate Bricks       | m <sup>2</sup> | 75.5   | 75.5   | 58       | 80                         | 45     | ¥         | 334    | 5       |
| ∞      | Concrete pavers (40x40x5cm)                      | m²             | 56     | 56     | 50       | 57                         | 50     | 50        | 319    | 6       |
| 0      | Plain concrete with 10 cm thickness              | m²             | 18     | 18     | 18       | 18                         | 25     | 25        | 122    | 6       |
| 2      | Reinforced concrete for the whole superstrucutre | ещ             | 650    | 650    | 620      | 650                        | 550    | 600       | 3720   | 6       |
| =      | CMU walls with 15 cm thickness                   | m²             | 33     | 28     | 32       | 31                         | 45     | 45        | 214    | 6       |
| 12     | CMU walls with 20 cm thickness                   | m²             | 34     | 31     | 35       | 32                         | 50     | 47        | 229    | 6       |
| 13     | Glazed mosaic tiles (size 30x30x3cm)             | m²             | 49     | 48     | 50       | 48                         | 50     | 50        | 295    | 6       |
| 4      | 14 Floor tiling                                  | m²             | 36     | 35     | 38       | 35                         | 32     | 32        | 208    | 9       |
| 15     | 15 Natural marble of stairs                      | E              | 143    | 150    | 132      | 143                        | 200    | 180       | 948    | 6       |
|        |                                                  |                |        |        |          |                            | C      | Continued |        |         |

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|----------|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|--------|--------|---------|
| #        | Work Items                                                                      | Unit           | 92/3/1 | 92/3/2 | 92/3/3                     | 92/3/4             | 92/3/5 | 92/3/6 | Total  | o       |
|          |                                                                                 |                |        |        | Items P.                   | Items Prices in SR | R      |        | Prices | Samples |
| 91       | 5 Plastic weather-resistant paints                                              | m²             | 16     | 16     | 16                         | 16                 | 16     | 20     | 100    | 9       |
| 12       | 17 White glazed ceramic tiles                                                   | m <sup>2</sup> | 60     | 58     | 75                         | 58                 | 90     | 90     | 431    | 6       |
| Ĩ        | 18 Insulator layer for moisture                                                 | m²             | 45     | 45     | 45                         | 45                 | 30     | 30     | 240    | 6       |
| Ĩ        | 19 Thermal insulation, horizontal                                               | m²             | 27     | 27     | 27                         | 27                 | 25     | 27     | 160    | 6       |
| 20       | Thermal insulation, vertical                                                    | m²             | 20     | 20     | 29                         | 20                 | 25     | 25     | 139    | 6       |
| 5        | Plastic paints for interior walls ( smooth American Texture )                   | m²             | 16     | 16     | 16                         | 16                 | 15     | 17     | 96     | 6       |
| 12       | 22 Plastic paints for interior ceilings (smooth American Texture)               | m²             | 16     | 16     | 16                         | 16                 | 15     | 17     | 96     | 9       |
| 18       | 23 Aluminum windows                                                             |                | 400    | 400    | 350                        | 400                | 500    | 500    | 2550   | 6       |
| 2        | 24 Hollow metallic doors                                                        | m <sup>2</sup> | 650    | 650    | 450                        | 650                | 550    | 600    | 3550   | 6       |
| 25       | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 313    | 313    | 310                        | 313                | 250    | 300    | 1799   | 6       |
| Ř        | 26 Filuoreseent lighting fixture, (2x40 watt) with reflector                    | No.            | 278    | 278    | 350                        | 287                | 320    | 350    | 1863   | 6       |
| 6        | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1150   | 1150   | 1000                       | 1150               | 2000   | 2000   | 8450   | 6       |
| 28       | 28 Switch, A/C. window type (2x30 Amps)                                         | No.            | 200    | 240    | 225                        | 200                | 50     | 180    | 1095   | 6       |
| 29       | Lighting switch (15 Amps/127 volt)                                              | No.            | 130    | 150    | 160                        | 150                | 150    | 160    | 900    | 6       |
| 30       | Main switchboard, school building                                               | No.            | 20000  | 20000  | 22500                      | 20000              | 10000  | 8000   | 100500 | 6       |
| <u>.</u> | Main distribution panelboard                                                    | No.            | 21250  | 21250  | 23500                      | 21250              | 12000  | 10000  | 109250 | 6       |
| 32       | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | u              | 138    | 138    | 138                        | 138                | 160    | 140    | 852    | 6       |
| R        | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )                | Ħ              | 190    | 190    | 184                        | 190                | 190    | 220    | 1164   | 6       |
| 34       | A/C unit windows type (cool/heat 1800 BUT/h,KW)                                 | No.            | 1725   | 1725   | 1700                       | 1725               | 1000   | 1000   | 8875   | 6       |
| 33       | 35 [Ceiling air fan dia {142cm (56in)}                                          | No.            | 380    | 381    | 365                        | 380                | 400    | 400    | 2306   | 6       |
| 36       | 36 Drinking water cooler (tank type)                                            | No.            | 2750   | 2725   | 2750                       | 2750               | 2500   | 2500   | 15975  | 9       |
| ļ        |                                                                                 |                |        |        |                            |                    |        |        |        |         |

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# Table 4.55Calculation of the Prices of Price Index ItemsEducational Area - RiyadhYear 1993

| L        |                                                     |                |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |           | The    | The No. |
|----------|-----------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|--------|-----------|--------|---------|
| #        | Work Items                                          | Unit           | 93/1/1 | 93/1/2 | 93/1/3                     | 93/1/4             | 93/1/5 | 93/1/6    | Total  | of      |
|          |                                                     |                |        |        | Items Pr                   | Items Prices in SR | 3      |           | Prices | Samples |
| [-       | Excavation work                                     | Ē              | 20     | 20     | 20                         | 50                 | *      | 15        | 125    | 6       |
| ~        |                                                     | е <sup>щ</sup> | 15     | 15     | 15                         | 50                 | 18     | 20        | 133    | 6       |
| <b>س</b> | 1                                                   | т <sup>3</sup> | 50     | 50     | 30                         | 36                 | 56     | 60        | 282    | 6       |
| 4        |                                                     | °u             | 260    | 250    | 260                        | 210                | 230    | 255       | 1465   | 6       |
| -<br>M   |                                                     | е<br>Ш         | 850    | 800    | 850                        | 740                | 825    | 650       | 4715   | 6       |
| 0        |                                                     | Ē              | 46     | 40     | 46                         | 110                | 46     | 60        | 348    | 6       |
| 5        | Building made from Calcium Silicate Bricks          | m²             | 180    | 170    | 180                        | 100                | 165    | 120       | 915    | 6       |
| ∞        |                                                     | m²             | 50     | 45     | 50                         | 40                 | 36     | 58        | 279    | 6       |
| 6        | 9 Plain concrete with 10 cm thickness               | ш <sup>2</sup> | 22     | 20     | 22                         | 22                 | 23     | 22        | 131    | 6       |
| 2        | 10 Reinforced concrete for the whole superstrucutre | т <sup>3</sup> | 006    | 830    | 900                        | 800                | 993    | 750       | 5173   | 9       |
| =        | 11 CMU walls with 15 cm thickness                   | m <sup>2</sup> | 36     | 34     | 36                         | 32                 | 38     | 40        | 216    | 6       |
| 12       | 12 CMU walls with 20 cm thickness                   | m²             | 40     | 38     | 40                         | 36                 | 41     | 45        | 240    | 9       |
| 1        | 13 Glazed mosaic tiles (size 30x30x3cm)             | m²             | 50     | 50     | 50                         | 45                 | 52     | 42        | 289    | 9       |
| 14       | 14 Floor tiling                                     | m²             | 32     | 32     | 32                         | 30                 | 34     | 33        | 193    | 6       |
| 13       | 15 Natural marble of stairs                         | u              | 200    | 150    | 200                        | 180                | 180    | 140       | 1050   | 6       |
| J        |                                                     |                |        |        |                            |                    | C      | Continued |        |         |

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### **Table 4.55 continued**

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|    |                                                                      |                |        | Pro    | <b>Project Code Number</b> | de Num             | ber       |        | The    | The No. |
|----|----------------------------------------------------------------------|----------------|--------|--------|----------------------------|--------------------|-----------|--------|--------|---------|
| #  | Work Items                                                           | Unit           | 93/1/1 | 93/1/2 | 93/1/3                     | 93/1/4             | 93/1/5    | 93/1/6 | Total  | JO      |
|    |                                                                      | -              |        |        | Items Pr                   | Items Prices in SR | R         |        | Prices | Samples |
| 9  | Plastic weather-resistant paints                                     | m²             | 20     | 18     | 20                         | 15                 | 18        | 20     | 111    | 9       |
| 12 | 17 White glazed ceramic tiles                                        | m²             | 65     | 65     | 65                         | 70                 | <i>LL</i> | 55     | 397    | 9       |
| _≃ | 18 Insulator laver for moisture                                      | m <sup>2</sup> | 30     | 30     | 30                         | 42                 | 49        | 40     | 221    | 9       |
| 19 | Thermal insulation, horizontal                                       | m²             | 30     | 30     | 30                         | 40                 | 23        | 35     | 188    | 9       |
| 20 | Thermal insulation. vertical                                         | m <sup>2</sup> | 24     | 22     | 24                         | 40                 | 19        | 22     | 151    | 9       |
| 5  | Plastic paints for interior walls (smooth American Texture)          | m²             | 16     | 16     | 16                         | 15                 | 17        | 20     | 100    | 9       |
| 2  | Plastic paints for interior ceilings (smooth American T              | m²             | 16     | 16     | 16                         | 15                 | 17        | 20     | 100    | 9       |
| ន  | Aluminum windows                                                     | m²             | 400    | 400    | 400                        | 425                | 370       | 400    | 2395   | 9       |
| 24 |                                                                      | m²             | 600    | 500    | 600                        | 600                | 850       | 800    | 3950   | 9       |
| 25 |                                                                      | No.            | 240    | 220    | 240                        | 320                | 250       | 195    | 1465   | 9       |
| 26 | 26 Fluorescent lighting fixture, (2x40 watt) with reflector          | No.            | 300    | 300    | 300                        | 380                | 330       | 400    | 2010   | 9       |
| 27 | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)      | No.            | 1000   | 800    | 1000                       | 1800               | 2520      | 1700   | 8820   | 9       |
| 28 | Switch. A/C. window type (2x30 Amps)                                 | No.            | 200    | 180    | 200                        | 350                | 170       | 170    | 1270   | 9       |
| 59 | 29 Lighting switch (15 Amps/127 volt)                                | No.            | 130    | 130    | 130                        | 320                | 175       | 120    | 1005   | 9       |
| ŝ  | 30 Main switchboard, school building                                 | No.            | 30000  | 30000  | 30000                      | 35000              | 15000     | 18000  | 158000 | 9       |
| 3  | 31 Main distribution panelboard                                      | No.            | 40000  | 40000  | 40000                      | 21000              | 22000     | 20000  | 183000 | 6       |
| 32 | 32 Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )              | E              | 140    | 130    | 140                        | 200                | 118       | 105    | 833    | 9       |
| 33 | 33 [Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> ) | ٤              | 200    | 200    | 200                        | 230                | 182       | 180    | 1192   | 9       |
| 8  | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                   | No.            | 1500   | 1200   | 1500                       | 1800               | 2270      | 1800   | 10070  | 9       |
| 35 | 35 [Ceiling air fan {dia 142cm (56in)}                               | No.            | 300    | 500    | 300                        | 400                | 350       | 300    | 2150   | 6       |
| 36 | 36 Drinking water cooler (tank type)                                 | No.            | 3000   | 4000   | 3000                       | 3700               | 2800      | 2000   | 18500  | 9       |
|    |                                                                      |                |        |        |                            |                    |           |        |        |         |

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# Table 4.56Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1993

|            |                                          |                 |        | Pro    | <b>Project Code Number</b> | de Num             | ber    |           | The    | The No. |
|------------|------------------------------------------|-----------------|--------|--------|----------------------------|--------------------|--------|-----------|--------|---------|
| 72         | Work Items                               | Unit            | 93/2/1 | 93/2/2 | 93/2/3                     | 93/2/4             | 93/2/5 | 93/2/6    | Total  | Of      |
| :          |                                          | • <u>•</u> •••  |        |        | Items P                    | Items Prices in SR | R      |           | Prices | Samples |
| -          | Rycevation work                          | ΓE              | ~      | œ      | 8                          | 10                 | 8      | 8         | 50     | 6       |
| ·   ~      | _                                        | Ē               | 14     | 13     | 13                         | 15                 | 13     | 13        | 81     | 9       |
| 1 "        | _                                        | сп<br>Ш         | 12     | =      | 11                         | 20                 | 11     | 11        | 76     | 6       |
| , ⊿        | Dain concrete work under the foundation  | rm <sup>3</sup> | 276    | 269    | 269                        | 350                | 269    | 269       | 1702   | 6       |
| ~          |                                          | с <sup>н</sup>  | 656    | 638    | 638                        | 750                | 638    | 638       | 3958   | 9       |
| 2          |                                          | m²              | 40     | 39     | 39                         | 45                 | 39     | 39        | 241    | 9       |
| ۲<br>۱     | -                                        | m²              | 98     | 95     | 95                         | 90                 | 95     | 95        | 568    | 9       |
| · 🗙        |                                          | m²              | 46     | 34     | 46                         | 40                 | 45     | 45        | 256    | 6       |
| 6          | 1-                                       | m²              | 24     | 24     | 24                         | 26                 | 24     | 24        | 146    | 6       |
| ۱ <u>۹</u> | - T-                                     | em3             | 897    | 874    | 874                        | 800                | 874    | 874       | 5193   | 6       |
| : =        | 11 CMU walls with 15 cm thickness        | m²              | 40     | 39     | 39                         | 45                 | 39     | 39        | 241    | 6       |
| 12         | 12 ICMU walls with 20 cm thickness       | m <sup>2</sup>  | 47     | 46     | 46                         | 48                 | 46     | 46        | 279    | 6       |
| <b>۳</b>   | 13 (Glazed mosaic tiles (size 30x30x3cm) | m2              | 43     | 41     | 41                         | 45                 | 41     | 41        | 252    | 6       |
| 1          | 14 Floor tiling                          | m²              | 30     | 29     | 29                         | 30                 | 29     | 29        | 176    | 6       |
| :<br>  S   | 15 Natural marble of stairs              | E               | 144    | 140    | 140                        | 165                | 140    | 140       | 869    | 6       |
| •          |                                          |                 |        |        |                            |                    | 0      | Continued |        |         |

### Table 4.56 continued

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                                                                              |                |        | Pro    | <b>Project Code Number</b> | de Numt   | oer    |        | The    | The No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|-----------|--------|--------|--------|---------|
| Plastic weather-resistant paints $m^2$ 18         16         18         16         18         106           White glazed corranic tiles $m^2$ 55         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         54         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         546         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7#  | Work Items                                                                   | Unit           | 93/2/1 | 93/2/2 | 93/2/3                     | 93/2/4    | 93/2/5 | 93/2/6 | Total  | JO      |
| Plastic weather-resistant paints $m^2$ 18         18         16         18         16         18         106           White glazed cramic tiles $m^2$ 55         54         54         54         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31         31<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | :   |                                                                              |                |        |        | Items Pri                  | ces in SR |        |        | Prices | Samples |
| matrix there is a stand insulation, horizontal         m²         55         54         54         54         54         54         31         31           While laced cerations         m²         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35         35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _   | Dlactic weather-recistant naints                                             | т <sup>2</sup> | 18     | 18     | 18                         | 16        | 18     | 18     | 106    | 9       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _   | A lastic require resistant purch<br>White alazed ceramic files               | т <sup>2</sup> | 55     | 54     | 54                         | 50        | 54     | 54     | 321    | 9       |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 18  | Truite Bruce Vermine                                                         | m²             | 35     | 34     | 34                         | 45        | 34     | 34     | 216    | 9       |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0   | Thermal insulation horizontal                                                | m²             | 36     | 35     | 35                         | 50        | 35     | 35     | 226    | 9       |
| main state interfor walls (smooth American Texture )         m²         16         16         15         20         16         99         99           Plastic paints for interfor walls (smooth American Texture )         m²         21         20         15         16         20         112           Plastic paints for interfor walls (smooth American Texture )         m²         437         20         15         16         20         112           Aluminum windows         Aluminum windows         m³         747         738         728         850         728         733         4509           Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted         No.         235         238         170         228         2361         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         261         2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ŝ   | Thermal insulation vertical                                                  | m <sup>2</sup> | 17     | 17     | 17                         | 35        | 17     | 17     | 120    | 6       |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3   | Distinguistic mints for interior walls ( smooth American Tex                 | m²             | 16     | 16     | 16                         | 15        | 20     | 16     | 99     | 6       |
| main partner partner over march of the match o | 3   | Discription of the interior cellinos (smooth American Texture )              | r<br>m         | 21     | 20     | 20                         | 15        | 16     | 20     | 112    | 9       |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11  | Aluminum windows                                                             | m²             | 437    | 426    | 426                        | 320       | 426    | 426    | 2461   | 9       |
| Horoscent lighting fixture, (1x4 watt), with plastic cover ceiling mountedNo.2352281702282311317Fluorescent lighting fixture, (2x40 watt), with reflectorNo.2682612612612611562Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.26524081232200012329369Switch, A/C. window type (2x30 Amps)No.No.2092042042502042042041275Switch, A/C. window type (2x30 Amps)No.No.20920420612012012359369Lighting switch (15 Amps/127 volt)No.No.2092042042502042042703204Main switchboardSchool buildingNo.12312012012012393692733Main distribution panelboardNo.471504750475104701626412270830270830Main distribution panelboardm161157157110157157157157157Main distribution panelboardm161157157110157157157157157157157157157899Main distribution panelboardm1611571571571571571571571571571571571571571571541456Main distribution panelboardm161<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 54  | Hallow metallic doors                                                        | ĨE             | 747    | 728    | 728                        | 850       | 728    | 728    | 4509   | 6       |
| Fluorescent lighting fixture, $(2x40 watt)$ with reflectorNo. $268$ $261$ $261$ $261$ $261$ $1562$ Lamp-post for the site (4m high with 125 watt/220 volt lamp)No. $1265$ $2408$ $1232$ $2000$ $1232$ $1232$ $9369$ Switch, A/C. window type ( $2x30$ Amps)No. $1265$ $204$ $204$ $204$ $204$ $204$ $1275$ Switch, A/C. window type ( $2x30$ Amps)No. $123$ $120$ $120$ $120$ $120$ $120$ $1275$ Switch, A/C. window type ( $2x30$ Amps)No. $123$ $120$ $120$ $120$ $120$ $1275$ $9369$ Switch, A/C. window type ( $2x30$ Amps)No. $123$ $120$ $120$ $120$ $120$ $120$ $1275$ $723$ Main switchboard, school buildingNo. $47150$ $45920$ $45016$ $42616$ $264222$ $723$ Main switchboard, school buildingNo. $47150$ $45920$ $45920$ $45920$ $47016$ $26422$ Thermoplastic cable (size $3x185x95  mm^2$ )m $161$ $157$ $157$ $110$ $157$ $157$ $157$ $197$ $899$ Reinforced thermoplastic cable (size $3x185x95  mm^2$ ) $No.$ $197$ $192$ $192$ $11021$ $899$ A/C unit windows type (cool/heat $1800  BUT/h, KW)$ No. $197$ $192$ $1904$ $1904$ $11021$ A/C unit windows type (cool/heat $1800  BUT/h, KW)$ No. $2300$ $2240$ $2000$ $2240$ $2920$ <td< td=""><td>32</td><td>Finorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted</td><td>No.</td><td>235</td><td>228</td><td>228</td><td>170</td><td>228</td><td>228</td><td>1317</td><td>9</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 32  | Finorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 235    | 228    | 228                        | 170       | 228    | 228    | 1317   | 9       |
| Lamp-post for the site (4m high with 125 watt/220 volt lamp)No.1265240812322000123212329369Switch, A/C. window type (2x30 Amps)No.2092042042041275723Switch, A/C. window type (2x30 Amps)No.2092042042042041275Switch, A/C. window type (2x30 Amps)No.4375842616426164261642616264222Main switchboardNo.437584261642616500004592045920723Main distribution panelboardNo.43758426165000042616264222899Main distribution panelboardNo.4375842616500004592045920264222Main distribution panelboardNo.4375842616500004592045920264222Main distribution panelboardm161157157157157899Reinforced thermoplastic cable (size 3x185x95 mm²)m1611571571167145Reinforced thermoplastic cable (size 30x240x120mm²)m19719219019041145A/C unit windows type (cool/neat 1800 BUT/h,KW)No.19551904190411021A/C unit windows type (cool/neat 1800 BUT/h,KW)No.23002240200224023202322Drinking water cooler (tank two)2002240200224020413022220 <tr <tr="">A/</tr>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36  | Funcescent lighting fixture. (2x40 watt) with reflector                      | No.            | 268    | 261    | 261                        | 250       | 261    | 261    | 1562   | 9       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                                                                              |                |        |        |                            |           |        |        |        |         |
| Switch, AC: window type $(2x30 \text{ Amps})$ No.No. $209$ $204$ $204$ $1275$ Switch, AC: window type $(2x30 \text{ Amps})$ No. $123$ $120$ $120$ $120$ $120$ $120$ $723$ Lighting switch (15 Amps/127 volt)No. $43758$ $42616$ $42616$ $42616$ $42616$ $264222$ Main distribution panelboardNo. $47150$ $47750$ $45920$ $45920$ $47920$ $270830$ Main distribution panelboardNo. $47150$ $4750$ $45920$ $45920$ $270830$ Thermoplastic cable (size $3x185x95 \text{ mm}^3$ )m $161$ $157$ $157$ $110$ $157$ $157$ $157$ Reinforced thermoplastic cable (size $3x185x95 \text{ mm}^3$ )m $197$ $197$ $192$ $190$ $192$ $1145$ Reinforced thermoplastic cable (size $3x240x120\text{ mm}^3$ )m $107$ $197$ $197$ $192$ $190$ $1904$ $11021$ AC unit windows type (cool/heat $1800 \text{ BUT/h,KW}$ )No. $1955$ $1904$ $1904$ $1904$ $11021$ AC unit windows type (cool/heat $1800 \text{ BUT/h,KW}$ )No. $2300$ $2240$ $2240$ $200$ $2240$ $1206$ $1206$ $1206$ $1206$ AC unit windows type (cool/heat $1800 \text{ BUT/h,KW}$ )No. $2300$ $2240$ $2920$ $2920$ $2920$ $2920$ $2920$ $2920$ $2920$ Drinking water cooler (tank two)No. $2300$ $2240$ $2000$ $2240$ $2240$ $1320$ $120$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21  |                                                                              | No.            | 1265   | 2408   | 1232                       | 2000      | 1232   | 1232   | 9369   | 9       |
| Lighting switch (15 Amps/127 volt)No.123120120120120120723Lighting switch (15 Amps/127 volt)Moi $43758$ $42616$ $50000$ $42616$ $42616$ $264222$ Main switchboard, school buildingNo. $47150$ $4750$ $45920$ $45920$ $45920$ $45920$ $26422$ Main distribution panelboardNo. $47150$ $47150$ $45920$ $45920$ $45920$ $45920$ $25422$ Main distribution panelboardNo. $47150$ $47150$ $45920$ $45920$ $45920$ $45920$ $25422$ Main distribution panelboardNo. $161$ $157$ $157$ $110$ $157$ $157$ $157$ $117$ Reinforced thermoplastic cable (size $30x240x120mm^2$ )m $197$ $192$ $1904$ $1904$ $11021$ A/C unit windows type (cool/heat $1800$ BUT/h,KW)No. $1955$ $1904$ $1904$ $1904$ $1904$ $11021$ Celling air fan (dia142cm (56in))Soz $392$ $392$ $392$ $392$ $392$ $322$ $2240$ $13260$ Drinking water cooler (tank twoe)No. $2300$ $2240$ $2000$ $2240$ $13260$ $13260$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 280 |                                                                              | .oN            | 209    | 204    | 204                        | 250       | 204    | 204    | 1275   | 9       |
| Main switchboard, school buildingMo. $43758$ $42616$ $50000$ $42616$ $42616$ $264222$ Main switchboardMo. $47150$ $45920$ $45920$ $45920$ $45920$ $45920$ $270830$ Main distribution panelboardmNo. $47150$ $45920$ $45920$ $45920$ $45920$ $45920$ $270830$ Main distribution panelboardm161 $157$ $157$ $157$ $899$ $899$ Thermoplastic cable (size $3x185x95$ mm²)m $197$ $192$ $192$ $192$ $110$ $157$ $117$ $899$ Alc unit windows type (cool/heat $1800$ BUT/h,KW)No. $197$ $192$ $1904$ $1904$ $1904$ $11021$ Alc unit windows type (cool/heat $1800$ BUT/h,KW)No. $402$ $392$ $392$ $392$ $392$ $392$ $392$ $2240$ $2240$ $13260$ Drinking water cooler (tank type)No. $2300$ $2240$ $2240$ $2240$ $13260$ $13260$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                                                                              | No             | 123    | 120    | 120                        | 120       | 120    | 120    | 723    | 9       |
| Main distribution panelboard         Mo. $47150$ $45920$ $45920$ $45920$ $45920$ $45920$ $270830$ $270830$ Thermoplastic cable (size $3x185x95$ mm <sup>2</sup> )         Thermoplastic cable (size $3x185x95$ mm <sup>2</sup> )         m         161         157         110         157         157         899           Reinforced thermoplastic cable (size $30x240x120mm^2$ )         m         197         192         192         192         1145           A/C unit windows type (cool/heat $1800 BUT/h, KW$ )         No.         1955         1904         1904         1904         1904         1904         11021           Celling air fan {dia142cm (56in)}         No.         402         392         392         392         392         2240         2200           Drinking water cooler (tank type)         No.         2300         2240         2000         2240         13260         13260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | i e |                                                                              | No.            | 43758  | 42616  | 42616                      | 50000     | 42616  | 42616  | 264222 | 9       |
| Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )       m       161       157       157       157       157       157       157       157       157       157       157       157       189         Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )       m       197       192       192       192       192       192       1145         A/C unit windows type (cool/heart 1800 BUT/h,KW)       No.       1955       1904       1904       1904       1904       11021         Celling air fan (dia142cm (56in))       No.       402       392       392       392       392       392       2240       2200       2240       2240       13260         Drinking water cooler (tank type)       No.       2300       2240       2240       2240       2240       13260       13260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6   | Main distribution panelboard                                                 | No.            | 47150  | 45920  | 45920                      | 40000     | 45920  | 45920  | 270830 | 9       |
| Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )         m         197         192         180         192         192         1145           A/C unit windows type (cool/heat 1800 BUT/h,KW)         No.         1955         1904         1450         1904         1904         1904         11021           Celling air fan (dia142cm (56in))         Oc.         402         392         392         392         392         392         2240         2200         13260           Drinking water cooler (tank type)         No.         2300         2240         2240         2240         13260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3   | Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )                         | u              | 161    | 157    | 157                        | 110       | 157    | 157    | 899    | 6       |
| AC unit windows type (cool/heat 1800 BUT/h,KW) No. 1955 1904 1904 1450 1904 1904 11021 1021 Celling air fan (dia142cm (56in)) No. 402 392 392 392 392 392 2240 2220 Drinking water cooler (tank type) No. 2300 2240 2240 2240 13260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5   | Reinforced thermonlastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 197    | 192    | 192                        | 180       | 192    | 192    | 1145   | 9       |
| Ceiling air fan {dia142cm (56in)}         No.         402         392         392         392         220           Drinking water cooler (tank type)         No.         2300         2240         2000         2240         13260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 34  | A/C unit windows tyre (cool/heat 1800 BUT/h.KW)                              | °2             | 1955   | 1904   | 1904                       | 1450      | 1904   | 1904   | 11021  | 9       |
| Drinking water cooler (tank type) 2240 2240 2240 2240 2240 13260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 35  | Ceiling air fan {dial42cm (56in)}                                            | No.            | 402    | 392    | 392                        | 250       | 392    | 392    | 2220   | 9       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2   | Drinking water cooler (tank type)                                            | No.            | 2300   | 2240   | 2240                       | 2000      | 2240   | 2240   | 13260  | 9       |

# Table 4.57Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1993

|          |                                                     |                 |        | Pro    | ject Coc           | <b>Project Code Number</b> | ber    |           | The    | The No. |
|----------|-----------------------------------------------------|-----------------|--------|--------|--------------------|----------------------------|--------|-----------|--------|---------|
| #        | Work Items                                          | Unit            | 93/3/1 | 93/3/2 | 93/3/3             | 93/3/4                     | 93/3/5 |           | Total  | of      |
|          |                                                     |                 |        | It     | Items Prices in SR | s in SR                    |        |           | Prices | Samples |
| -        | Excavation work                                     | °.              | 40     | *      | 18                 | 100                        | *      |           | 158    | 5       |
| 5        | Backfilling work                                    | с <sup>ш</sup>  | 20     | 40     | 17                 | 40                         | 40     |           | 157    | 5       |
| <b>~</b> |                                                     | em <sup>3</sup> | 40     | 50     | 13                 | 50                         | 60     |           | 213    | 5       |
| 4        |                                                     | ົພ              | 230    | 300    | 180                | 300                        | 300    |           | 1310   | 5       |
| ~        |                                                     | ęш              | 750    | 850    | 740                | 850                        | 850    |           | 4040   | 5       |
| 0        |                                                     | m²              | 120    | 120    | 40                 | 150                        | 120    |           | 550    | S       |
| ~        | · · · ·                                             | m²              | 250    | 120    | 60                 | 130                        | 120    |           | 680    | 5       |
| ∞        | -                                                   | m <sup>2</sup>  | 58     | 70     | 31                 | 80                         | 70     |           | 336    | 5       |
| °        | 9 Plain concrete with 10 cm thickness               | m <sup>2</sup>  | 23     | 25     | 17                 | 25                         | 25     |           | 115    | 5       |
| 12       | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 800    | 006    | 790                | 950                        | 006    |           | 4340   | S       |
| =        | 11 CMU walls with 15 cm thickness                   | m²              | 42     | 40     | 33                 | 45                         | 40     |           | 200    | S       |
| 12       | 12 CMU walls with 20 cm thickness                   | m²              | 44     | 45     | 34                 | 50                         | 45     |           | 218    | S       |
| <b>≅</b> | 13 [Glazed mosaic tiles (size 30x30x3cm)            | 2 <sup>m</sup>  | 62     | 55     | 45                 | 60                         | 55     |           | 277    | 5       |
| 14       | 14 Floor tiling                                     | m <sup>2</sup>  | 40     | 45     | 28                 | 45                         | 45     |           | 203    | 5       |
| 2        | 15 Natural marble of stairs                         | u               | 190    | 120    | 145                | 140                        | 120    |           | 715    | 5       |
|          |                                                     |                 |        |        |                    |                            | Col    | Continued |        |         |

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|    |                                                                                 |                |        | Pro    | Project Code Number | de Num   | ber    | The        | The No. |
|----|---------------------------------------------------------------------------------|----------------|--------|--------|---------------------|----------|--------|------------|---------|
| #  | Work Items                                                                      | Unit           | 93/3/1 | 93/3/2 | 93/3/3              | 93/3/4   | 93/3/5 | Total      | JO      |
|    |                                                                                 |                |        | ű      | Items Prices in SR  | es in SR |        | Prices     | Samples |
| 91 | Plastic weather-resistant paints                                                | m²             | 20     | 25     | 17                  | 25       | 25     | 112        | 5       |
| 17 | White glazed ceramic tiles                                                      | m <sup>2</sup> | 60     | 70     | 70                  | 75       | 70     | <br>345    | 5       |
| 8  | 18 Insulator laver for moisture                                                 | m²             | 43     | 50     | 51                  | 55       | 50     | 249        | 5       |
| 6  | Thermal insulation. Invizontal                                                  | m²             | 27     | 45     | 30                  | 50       | 45     | 197        | 5       |
| 20 |                                                                                 | m²             | 25     | 40     | 20                  | 40       | 40     | 165        | 5       |
|    | -                                                                               | m²             | 20     | 23     | 16                  | 25       | 23     | 107        | 5       |
|    |                                                                                 | m²             | 20     | 23     | 16                  | 25       | 23     | 107        | 5       |
|    | Aluminum windows                                                                | m²             | 009    | 450    | 500                 | 550      | 450    | 2550       | ŝ       |
| 24 | 24 Hollow metallic doors                                                        | m <sup>2</sup> | 950    | 700    | 1150                | 700      | 700    | 4200       | Ś       |
| 25 | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 380    | 420    | 287                 | 420      | 420    | 1927       | 5       |
| 26 | 26 Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 500    | 430    | 320                 | 430      | 430    | <br>2110   | S       |
| 27 | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1550   | 1500   | 1000                | 1500     | 1500   | 7050       | 5       |
| 28 | Switch, A/C. window type (2x30 Amps)                                            | No.            | 300    | 300    | 200                 | 300      | 300    | 1400       | 5       |
| 29 | 29 Lighting switch (15 Amps/127 volt)                                           | No.            | 250    | 260    | 150                 | 260      | 260    | 1180       | 5       |
| 8  | 30 Main switchboard, school building                                            | No.            | 38000  | 45000  | 34500               | 55000    | 55000  | 227500     | 5       |
| 31 | 31 Main distribution panelboard                                                 | No.            | 48000  | 50000  | 48300               | 65000    | 60000  | <br>271300 | 2       |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | m              | 180    | 150    | 190                 | 150      | 150    | <br>820    | 5       |
| 33 | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ              | 250    | 220    | 220                 | 220      | 220    | 1130       | 5       |
| 3  | A/C unit windows type (cool/heat 1800 BUT/h,KW)                                 | No.            | 1900   | 1900   | 1600                | 2000     | 1900   | 9300       | 5       |
| 35 | Ceiling air fan dia {142cm (56in)}                                              | No.            | 400    | 450    | 400                 | 450      | 450    | 2150       | 5       |
| 36 | 36 Drinking water cooler (tank type)                                            | No.            | 2500   | 2000   | 2200                | 2000     | 2500   | 11200      | 5       |
|    |                                                                                 |                |        |        |                     |          |        |            |         |

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# Table 4.58Calculation of the Prices of Price Index ItemsEducational Area - RiyadhYear 1994

|    |                                                     |                |        | Pro    | <b>Project Code Number</b> | de Num    | ber    |           | The    | The No. |
|----|-----------------------------------------------------|----------------|--------|--------|----------------------------|-----------|--------|-----------|--------|---------|
| #  | Work Items                                          | Unit           | 94/1/1 | 94/1/2 | 94/1/3                     | 94/1/4    | 94/1/5 | 94/1/6    | Total  | Of      |
|    |                                                     |                |        |        | Items Prices in SR         | ces in SR |        |           | Prices | Samples |
| Ŀ  | Excavation work                                     | ۳3             | 50     | 25     | 25                         | 30        | 3      | 20        | 153    | 6       |
| 2  | 2  Backfilling work                                 | ۴.             | 25     | 22     | 25                         | 30        | 12     | 10        | 124    | 9       |
| "  | 3 Excavation work for the foundation                | е <sup>щ</sup> | 60     | 50     | 40                         | 30        | 18     | 60        | 258    | 6       |
|    | Plain concrete work under the foundation            | ĥ              | 250    | 250    | 200                        | 250       | 230    | 225       | 1405   | 6       |
| ľ  |                                                     | Ĩ              | 735    | 730    | 750                        | 850       | 300    | 665       | 4030   | 6       |
| 0  | Natural crushed stone sub-base coarse               | m²             | 80     | 80     | 30                         | 100       | 200    | 45        | 535    | 9       |
| 5  |                                                     | m <sup>2</sup> | 120    | 120    | 80                         | 100       | 50     | 180       | 650    | 9       |
| ∞  |                                                     | m²             | 50     | 50     | 40                         | 40        | 25     | 25        | 230    | 6       |
| 0  | 1                                                   | m²             | 24     | 25     | 20                         | 40        | 95     | 25        | 229    | 6       |
| 2  | 10 Reinforced concrete for the whole superstrucutre | em.            | 750    | 750    | 750                        | 800       | 1200   | 700       | 4950   | 6       |
| =  | 11 CMU walls with 15 cm thickness                   | m²             | 40     | 40     | 50                         | 40        | 50     | 40        | 260    | 9       |
| 12 | 12 CMU walls with 20 cm thickness                   | m <sup>2</sup> | 45     | 45     | 50                         | 60        | 50     | 45        | 295    | 6       |
| 12 | 13 [Glazed mosaic tiles (size 30x30x3cm)            | m²             | 44     | 44     | 40                         | 50        | 65     | 50        | 293    | 6       |
| 4  | 14 Floor tiling                                     | m²             | 35     | 36     | 30                         | 40        | 25     | 35        | 201    | 6       |
| 15 | 15 Natural marble of stairs                         | £              | 200    | 200    | 180                        | 100       | 225    | 190       | 1095   | 6       |
|    |                                                     |                |        |        |                            |           | 0      | Continued |        |         |

### **Table 4.58 continued**

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|          |                                                                                 |                |        | Pro    | <b>Project Code Number</b> | de Num    | ber    |        | The    | The No. |
|----------|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|-----------|--------|--------|--------|---------|
| #        | Work Items                                                                      | Unit           | 94/1/1 | 94/1/2 | 94/1/3                     | 94/1/4    | 94/1/5 | 94/1/6 | Total  | JO      |
|          |                                                                                 |                |        |        | Items Prices in SR         | ces in SR |        |        | Prices | Samples |
| 9        | 16  Plastic weather-resistant paints                                            | m²             | 20     | 20     | 18                         | 10        | 10     | 40     | 118    | 9       |
| 2        | White glazed ceramic tiles                                                      | m²             | 65     | 65     | 70                         | 75        | 65     | 85     | 425    | 9       |
| <b>≥</b> | 18 Insulator laver for moisture                                                 | m <sup>2</sup> | 35     | 35     | 60                         | 50        | 80     | 30     | 290    | 9       |
| 16       | Thermal insulation, horizontal                                                  | m²             | 30     | 30     | 40                         | 40        | 80     | 35     | 255    | 9       |
| 20       | 20 Thermal insulation. vertical                                                 | m <sup>2</sup> | 22     | 22     | 18                         | 40        | 20     | 35     | 157    | 9       |
| 5        | 21 Plastic paints for interior walls (smooth American Texture)                  | m²             | 22     | 22     | 18                         | 20        | 10     | 25     | 117    | 9       |
| 22       | 22 Plastic paints for interior ceilings (smooth American Texture)               | m²             | 20     | 20     | 18                         | 20        | 25     | 30     | 133    | 6       |
| 53       | Aluminum windows                                                                | m²             | 480    | 480    | 450                        | 400       | 400    | 675    | 2885   | 9       |
| 24       | 24 Hollow metallic doors                                                        | m <sup>2</sup> | 1000   | 1000   | 006                        | 700       | 650    | 700    | 4950   | 6       |
| 25       | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 260    | 250    | 300                        | 270       | 300    | 255    | 1635   | 9       |
| 26       | 26 Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 400    | 320    | 300                        | 300       | 400    | 332    | 2052   | 9       |
| 27       | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1700   | 1650   | 1000                       | 1500      | 1900   | 1650   | 9400   | 9       |
| 28       | 28 Switch, A/C, window type (2x30 Amps)                                         | No.            | 250    | 240    | 300                        | 300       | 500    | 195    | 1785   | 9       |
| 29       | Lighting switch (15 Amps/127 volt)                                              | No.            | 250    | 250    | 300                        | 275       | 250    | 170    | 1495   | 9       |
| ŝ        | 30 Main switchboard, school building                                            | No.            | 38000  | 38000  | 40000                      | 25000     | 40000  | 45600  | 226600 | 9       |
| 31       | Main distribution panelboard                                                    | No.            | 45000  | 45000  | 45000                      | 35000     | 60000  | 47400  | 277400 | 9       |
| 32       | 32 Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | æ              | 125    | 120    | 140                        | 70        | 100    | 168    | 723    | 9       |
| ŝ        | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | ٤              | 225    | 220    | 190                        | 125       | 150    | 203    | 1113   | 9       |
| 34       | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 1600   | 1600   | 2000                       | 2000      | 1900   | 2400   | 11500  | 9       |
| 35       | 35 [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 360    | 360    | 400                        | 500       | 600    | 650    | 2870   | 6       |
| 36       | 36 Drinking water cooler (tank type)                                            | No.            | 2300   | 2300   | 2200                       | 2000      | 3500   | 2600   | 14900  | 6       |
|          |                                                                                 |                |        |        |                            |           |        |        |        |         |

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#### Table 4.59 Calculation of the Prices of Price Index Items Educational Area - Jeddah Year 1994

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|          |                                                     |                 |        | Pro    | <b>Project Code Number</b> | le Num    | ber |           | The    | The No. |
|----------|-----------------------------------------------------|-----------------|--------|--------|----------------------------|-----------|-----|-----------|--------|---------|
| #        | Work Items                                          | Unit            | 94/2/1 | 94/2/2 |                            |           |     |           | Total  | oſ      |
| :        |                                                     | L               |        |        | Items Prices in SR         | ces in SF | ~   |           | Prices | Samples |
| -        | Excevation work                                     | Ē               | 40     | 10     |                            |           |     |           | 50     | 2       |
| ·   ~    |                                                     | ۳3              | 13     | 38     |                            |           |     |           | 51     | 2       |
| 5        |                                                     | ۶               | 16     | 70     |                            |           |     |           | 86     | 2       |
|          | 4   Plain concrete work under the foundation        | m <sup>3</sup>  | 300    | 320    |                            |           |     |           | 620    | 2       |
| <b>~</b> | 5 Reinforced concrete work for the foundation       | Ē               | 670    | 700    |                            |           |     |           | 1370   | 2       |
| 9        | Natural crushed stone sub-base coarse               | m²              | 59     | 100    |                            |           |     |           | 159    | 2       |
| 5        | Building made from Calcium Silicate Bricks          | m²              | 90     | 220    |                            |           |     |           | 310    | 2       |
| ~        | Concrete pavers (40x40x5cm)                         | m²              | 51     | 68     |                            |           |     |           | 119    | 2       |
| 6        | 9 Plain concrete with 10 cm thickness               | m²              | 30     | 32     |                            |           |     |           | 62     | 2       |
| 2        | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 874    | 830    |                            |           |     |           | 1704   | 2       |
| =        | 11 CMU walls with 15 cm thickness                   | m²              | 39     | 46     |                            |           |     |           | 85     | 2       |
| 2        | 12 CMU walls with 20 cm thickness                   | zm <sup>2</sup> | 46     | 50     |                            | :         |     |           | 96     | 7       |
| 1        | 13 (Glazed mosaic tiles (size 30x30x3cm)            | m²              | 41     | 09     |                            |           |     |           | 101    | 2       |
| 1        | 14 Floor tiling                                     | m²              | 29     | 44     |                            |           |     |           | 73     | 2       |
| l≌       | 15 Natural marble of stairs                         | u               | 150    | 230    |                            |           |     |           | 380    | 2       |
|          |                                                     |                 |        |        |                            |           | చ   | Continued |        |         |

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### **Table 4.59continued**

|    |                                                                                 |        |        | Pro    | <b>Project Code Number</b> | le Numl   | oer |           | The    | The No. |
|----|---------------------------------------------------------------------------------|--------|--------|--------|----------------------------|-----------|-----|-----------|--------|---------|
| #  | Work Items                                                                      | Unit   | 94/2/1 | 94/2/2 |                            |           |     | L         | Total  | JO      |
|    |                                                                                 |        |        |        | Items Prices in SR         | ces in SR |     | Р         | Prices | Samples |
| 16 | Plastic weather-resistant paints                                                | ۳<br>۳ | 19     | 20     |                            |           |     |           | 39     | 2       |
| 12 | 17 White glazed ceramic tiles                                                   | m²     | 54     | 75     |                            |           |     |           | 129    | 2       |
| 18 | 18 Insulator laver for moisture                                                 | m²     | 34     | 52     |                            |           |     |           | 86     | 2       |
| 6  | Thermal insulation, horizontal                                                  | m²     | 35     | 29     |                            |           |     |           | 64     | 2       |
| 20 | Thermal insulation, vertical                                                    | m2     | 35     | 25     |                            |           |     |           | 60     | 2       |
| 21 | 21 Plastic paints for interior walls ( smooth American Texture )                | m²     | 20     | 16     |                            |           |     |           | 36     | 2       |
| 5  | 22  Plastic paints for interior cellings ( smooth American Texture )            | m²     | 22     | 16     |                            |           |     |           | 38     | 2       |
| 23 | Aluminum windows                                                                | m²     | 426    | 380    |                            |           |     |           | 806    | 2       |
| 7  | 24 Hollow metallic doors                                                        | m²     | 728    | 1560   |                            |           |     | 2         | 2288   | 2       |
| 52 | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.    | 228    | 250    |                            |           |     | ,         | 478    | 2       |
| 26 | 26 Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.    | 261    | 310    |                            |           |     |           | 571    | 2       |
| 27 | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.    | 1532   | 1820   |                            |           |     | 3         | 3352   | 2       |
| 28 | Switch, A/C. window type (2x30 Amps)                                            | No.    | 204    | 250    |                            |           |     | '         | 454    | 2       |
| 29 | 29 Lighting switch (15 Amps/127 volt)                                           | No.    | 120    | 200    |                            |           |     |           | 320    | 7       |
| ŝ  | 30 Main switchboard, school building                                            | No.    | 42896  | 32000  |                            |           |     | <i>'L</i> | 74896  | 2       |
| 3  | 31 Main distribution panelboard                                                 | No.    | 46480  | 32000  |                            |           |     | 7         | 78480  | 2       |
| 32 | 32 Thermoplastic cable (size $3x185x95 \text{ mm}^2$ )                          | E      | 179    | 160    |                            |           |     |           | 339    | 2       |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )                | Ħ      | 192    | 250    |                            |           |     | '         | 442    | 2       |
| 34 | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.    | 1904   | 1900   |                            |           |     | 3         | 3804   | 2       |
| 35 | 35 Ceiling air fan {dia142cm (56in)}                                            | No.    | 392    | 330    |                            |           |     |           | 722    | 2       |
| 36 | 36 Drinking water cooler (tank type)                                            | No.    | 1792   | 2600   |                            |           |     | 4         | 4392   | 2       |
|    |                                                                                 |        |        |        |                            |           |     |           |        |         |

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# Table 4.60Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1994

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|    |                                                  |                 |        | Pro    | ject Co            | <b>Project Code Number</b> | Jer | The    | The No. |
|----|--------------------------------------------------|-----------------|--------|--------|--------------------|----------------------------|-----|--------|---------|
| #  | Work Items                                       | Unit            | 94/3/1 | 94/3/2 | 94/3/3             | 94/3/4                     |     | Total  | o       |
|    |                                                  |                 |        | It     | Items Prices in SR | es in SR                   |     | Prices | Samples |
| -  | Excavation work                                  | em <sup>3</sup> | 50     | *      | 32                 | 32                         |     | 114    | 4       |
| 2  | 2 Backfilling work                               | em <sup>3</sup> | 25     | 20     | 26                 | 26                         |     | 97     | 4       |
| m  | 3 Excavation work for the foundation             | ٤u              | 70     | 39     | 32                 | 32                         |     | 173    | 4       |
| 4  | Plain concrete work under the foundation         | em <sup>3</sup> | 270    | 390    | 390                | 390                        |     | 1440   | 4       |
| l~ | Reinforced concrete work for the foundation      | m <sup>3</sup>  | 900    | 1072   | 1072               | 1072                       |     | 4116   | 4       |
| °  | Natural crushed stone sub-base coarse            | m <sup>2</sup>  | 70     | 58     | 65                 | 52                         |     | 245    | 4       |
| -  | Building made from Calcium Silicate Bricks       | m²              | 85     | 61     | 78                 | 55                         |     | 279    | 4       |
| ∞  | Concrete pavers (40x40x5cm)                      | m²              | 60     | 91     | 78                 | 78                         |     | 307    | 4       |
| 9  | Plain concrete with 10 cm thickness              | m²              | 25     | 39     | 39                 | 39                         |     | 142    | 4       |
| 2  | Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 850    | 1072   | 1040               | 1072                       |     | 4034   | 4       |
| =  | 11 CMU walls with 15 cm thickness                | m <sup>2</sup>  | 56     | 85     | 78                 | 78                         |     | 297    | 4       |
| 12 | 12 CMU walls with 20 cm thickness                | m²              | 55     | 65     | 84                 | 84                         |     | 288    | 4       |
| 3  | 13 Glazed mosaic tiles (size 30x30x3cm)          | m <sup>2</sup>  | 48     | 58     | 65                 | 52                         |     | 223    | 4       |
| 4  | 14 Floor tiling                                  | m²              | 35     | 39     | 52                 | 93                         |     | 219    | 4       |
| 15 | 15 Natural marble of stairs                      | m               | 180    | 156    | 156                | 130                        |     | 622    | 4       |
|    |                                                  |                 |        |        |                    |                            |     |        |         |

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### Table 4.60 continued

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|          |                                                                                 |                |        | Pro    | ject Coc           | <b>Project Code Number</b> | er | The    | The No. |
|----------|---------------------------------------------------------------------------------|----------------|--------|--------|--------------------|----------------------------|----|--------|---------|
| #        | Work Items                                                                      | Unit           | 94/3/1 | 94/3/2 | 94/3/3             | 94/3/4                     |    | Total  | of      |
| _        |                                                                                 |                |        | I      | Items Prices in SR | s in SR                    |    | Prices | Samples |
| 2        | Plastic weather-resistant paints                                                | m²             | 25     | 32     | 32                 | 32                         |    | 121    | 4       |
| =        |                                                                                 | m <sup>2</sup> | 50     | 78     | 78                 | 78                         |    | 284    | 4       |
| 18       |                                                                                 | m²             | 50     | 26     | 39                 | 39                         |    | 154    | 4       |
| : ≘      |                                                                                 | т<br>ш         | 30     | 26     | 26                 | 26                         |    | 108    | 4       |
| 20       | Thermal insulation. vertical                                                    | m²             | 25     | 26     | 19                 | 19                         |    | 89     | 4       |
| 7        |                                                                                 | m²             | 25     | 33     | 32                 | 32                         |    | 122    | 4       |
| 12       |                                                                                 | m²             | 27     | 33     | 32                 | 32                         |    | 124    | 4       |
| 3        | 23 Aluminum windows                                                             | m²             | 450    | 585    | 520                | 520                        |    | 2075   | 4       |
| 2        | 24 Hollow metallic doors                                                        | m²             | 800    | 845    | 780                | 780                        |    | 3205   | 4       |
| 5        | 25 Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 220    | 400    | 403                | 403                        |    | 1426   | 4       |
| 26       | Fluorescent lighting fixture, (2x40 watt) with reflector                        | No.            | 260    | 429    | 390                | 390                        |    | 1469   | 4       |
| 27       | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1500   | 3250   | 1700               | 3250                       |    | 9700   | 4       |
| 28       | Switch, A/C. window type (2x30 Amps)                                            | No.            | 250    | 247    | 240                | 195                        |    | 932    | 4       |
| 29       | 29 Lighting switch (15 Amps/127 volt)                                           | No.            | 170    | 182    | 175                | 156                        |    | 683    | 4       |
| 8        | 30 Main switchboard, school building                                            | No.            | 25000  | 38000  | 39000              | 39000                      |    | 141000 | 4       |
| <u>ب</u> | 31 Main distribution panelboard                                                 | No.            | 27000  | 39000  | 45500              | 45500                      |    | 157000 | 4       |
| 32       | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | E              | 150    | 152    | 143                | 169                        |    | 614    | 4       |
| 8        | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 220    | 220    | 182                | 208                        |    | 830    | 4       |
| 3        | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 3500   | 2340   | 2340               | 2340                       |    | 10520  | 4       |
| ŝ        | 35 Ceiling air fan dia {142cm (56in)}                                           | No.            | 500    | 325    | 520                | 325                        |    | 1670   | 4       |
| 8        | 36 Drinking water cooler (tank type)                                            | No.            | 2400   | 2470   | 2405               | 2470                       |    | 9745   | 4       |
|          |                                                                                 |                |        |        |                    |                            |    |        |         |

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#### Table 4.61 Calculation of the Prices of Price Index Items Educational Area - Riyadh Year 1995

| L           |                                                     |                  |        | Pro    | <b>Project Code Number</b> | e Num    | ber   |           | The    | The No. |
|-------------|-----------------------------------------------------|------------------|--------|--------|----------------------------|----------|-------|-----------|--------|---------|
| 72          | Work Items                                          | Unit             | 95/1/1 | 95/1/2 | 95/1/3                     |          |       |           | Total  | Q       |
| -           |                                                     |                  |        | I      | ftems Prices in SR         | es in SR |       |           | Prices | Samples |
| -           | Excavation work                                     | ۳                | 43     | 43     | 43                         |          |       |           | 129    | 3       |
| ·   ·       | Backfilline work                                    | сп<br>Ш          | 19     | 19     | 19                         |          |       |           | 57     | 3       |
| 1 ~         |                                                     | Em3              | 25     | 25     | 25                         |          |       |           | 75     | 3       |
| <u>م</u> ار |                                                     | сп<br>П          | 165    | 165    | 165                        |          |       |           | 495    | 3       |
| ~           |                                                     | г<br>Ш           | 610    | 610    | 610                        |          |       |           | 1830   | 3       |
| 2           | Natural crushed stone sub-base coarse               | г <mark>я</mark> | 200    | 200    | 200                        |          |       |           | 600    | 3       |
| -           | Building made from Calcium Silicate Bricks          | m²               | 300    | 300    | 300                        |          |       |           | 900    | 3       |
| ~           |                                                     | m²               | 10     | 10     | 10                         |          |       |           | 30     | 3       |
| 0           | _                                                   | m²               | 100    | 100    | 100                        |          |       |           | 300    | 3       |
| 2           | 10 Reinforced concrete for the whole superstrucutre | m <sup>3</sup>   | 720    | 720    | 720                        |          |       |           | 2160   | 3       |
| =           | 11 ICMU walls with 15 cm thickness                  | m²               | 65     | 65     | 65                         |          |       |           | 195    | 3       |
| 12          | 12 ICMU walls with 20 cm thickness                  | m <sup>2</sup>   | 65     | 65     | 65                         |          |       |           | 195    | 3       |
| ¶⊟          | 13 [Glazed mosaic tiles (size 30x30x3cm)            | m²               | 45     | 45     | 45                         |          |       |           | 135    | 3       |
| 14          | 14 Floor tiling                                     | m <sup>2</sup>   | 30     | 30     | 30                         |          |       |           | 90     | 3       |
| <b> </b> ≌  | 15 Natural marble of stairs                         | Ħ                | 175    | 175    | 175                        |          |       |           | 525    | 3       |
| :           |                                                     |                  |        |        |                            |          | Conti | Continued |        |         |

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### Table 4.61 continued

|          |                                                                              |        |        | Pro    | <b>Project Code Number</b> | le Numl   | oer | <br>The    | The No. |
|----------|------------------------------------------------------------------------------|--------|--------|--------|----------------------------|-----------|-----|------------|---------|
| #        | Work Items                                                                   | Unit   | 95/1/1 | 95/1/2 | 95/1/3                     |           |     | Total      | Oſ      |
| :        |                                                                              |        |        |        | Items Prices in SR         | ces in SR |     | <br>Prices | Samples |
| 14       | 16 Plastic weather-resistant maints                                          | ۳<br>۳ | 17     | 17     | 17                         |           |     | 51         | 3       |
| 2 =      | . White olared ceramic tiles                                                 | ر<br>۳ | 35     | 35     | 35                         |           |     | 105        | 3       |
| -   -    | 18 Insulator laws for moisture                                               | n2     | 75     | 75     | 75                         |           |     | 225        | 3       |
| 2        | 10 Instanto Ayor Anternation 10 Thermal insulation horizontal                | т<br>Ш | 50     | 50     | 50                         |           |     | 150        | 3       |
| ŝ        | Themal insulation vertical                                                   | 'n     | 40     | 40     | 40                         |           |     | <br>120    | 3       |
| 7        | 21 Plastic naints for interior walls (smooth American Texture)               | m²     | 12     | 12     | 12                         |           |     | <br>36     | ę       |
| : 2      | 22 Plastic naints for interior ceilings (smooth American Texture)            | m²     | 13     | 13     | 13                         |           |     | 39         | 3       |
| 15       | 23 Aluminum windows                                                          | m²     | 700    | 700    | 700                        |           |     | 2100       | 3       |
| 2        | 24 Hollow metallic doors                                                     | m²     | 700    | 700    | 700                        |           |     | 2100       | e       |
| 1        | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.    | 200    | 200    | 200                        |           |     | 600        | 9       |
| 3        | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.    | 270    | 270    | 270                        |           |     | 810        | ę       |
| 2        | 27 II amn-post for the site (4m high with 125 watt/220 volt lamp)            | No.    | 910    | 910    | 910                        |           |     | 2730       | 6       |
| 28       | Switch. A/C. window type (2x30 Amps)                                         | No.    | 300    | 300    | 300                        |           |     | 900        | 9       |
| 50       | 29 Lighting switch (15 Amps/127 volt)                                        | No.    | 150    | 150    | 150                        |           |     | 450        | 9       |
| ŝ        | 30 Main switchboard, school building                                         | No.    | 50000  | 50000  | 50000                      |           |     | 150000     | 9       |
| <b>—</b> | 31 Main distribution panelboard                                              | No.    | 45000  | 45000  | 45000                      |           |     | <br>135000 | 3       |
| :  ?     | 32 [Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )                     | E      | 80     | 80     | 80                         |           |     | <br>240    | 3       |
| ۲<br>۲   | 33 Reinforced thermonlastic cable (size 30x240x120mm <sup>2</sup> )          | E      | 110    | 110    | 110                        |           |     | 330        | 3       |
| 2        | 34 A/C unit windows type (cool/heat 1800 BUT/h.KW)                           | Š      | 1300   | 1300   | 1300                       |           |     | <br>3900   | 3       |
| 3        | 35 [Ceiling air fan {dia 142cm (56in)}                                       | No.    | 400    | 400    | 400                        |           |     | 1200       | 3       |
| 2        | 36  Drinking water cooler (tank type)                                        | No.    | 1400   | 1400   | 1400                       |           |     | <br>4200   | 3       |
| 3        |                                                                              |        |        |        |                            |           |     |            |         |

# Table 4.62Calculation of the Prices of Price Index ItemsEducational Area - JeddahYear 1995

| L          |                                                     |                |        | Pro    | <b>Project Code Number</b> | Number    |           | The    | The No. |
|------------|-----------------------------------------------------|----------------|--------|--------|----------------------------|-----------|-----------|--------|---------|
| #          | Work Items                                          | Unit           | 95/2/1 | 95/2/2 | 95/2/3                     |           |           | Total  | JO      |
|            |                                                     | L              |        |        | Items Prices in SR         | ces in SR |           | Prices | Samples |
| <u> </u> - | Excavation work                                     | Ê              | 20     | 20     | 20                         |           |           | 60     | 3       |
| ·   ~      | Backfilling work                                    | m3             | 19     | 19     | 19                         |           |           | 57     | 9       |
| "          | Excavation work for the foundation                  | т <sup>3</sup> | 25     | 25     | 25                         |           |           | 75     | 3       |
| 14         |                                                     | с <sup>ш</sup> | 325    | 325    | 325                        |           |           | 975    | 3       |
| · [ ~      |                                                     | ۶<br>۳         | 675    | 675    | 675                        |           |           | 2025   | 3       |
| 0          | Natural crushed stone sub-base coarse               | m²             | 37     | 37     | 37                         |           |           | 111    | 3       |
| 1          | Building made from Calcium Silicate Bricks          | m²             | 385    | 385    | 385                        |           |           | 1155   | 3       |
| ∞          |                                                     | m²             | 30     | 30     | 30                         |           |           | 90     | 3       |
| 0          | Plain concrete with 10 cm thickness                 | m <sup>2</sup> | 30     | 30     | 30                         |           |           | 90     | 3       |
| 2          | 10 Reinforced concrete for the whole superstrucutre | °m             | 930    | 930    | 930                        |           |           | 2790   | 3       |
| =          | 11 CMU walls with 15 cm thickness                   | m²             | 35     | 35     | 35                         |           |           | 105    | 3       |
| 12         | 12 CMU walls with 20 cm thickness                   | m²             | 39     | 39     | 39                         |           |           | 117    | 3       |
| <b>[</b> ] | 13  Glazed mosaic tiles (size 30x30x3cm)            | m²             | 38     | 38     | 38                         |           |           | 114    | 3       |
| 14         | 14 Floor tiling                                     | m²             | 30     | 30     | 30                         |           |           | 90     | 3       |
| 15         | 15 Natural marble of stairs                         | m              | 200    | 200    | 200                        |           |           | 600    | 3       |
|            |                                                     |                |        |        |                            |           | Continued |        |         |

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### 4.62 continued

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                                              |                |        | Pro    | <b>Project Code Number</b> | Number    | The     | The No. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|-----------|---------|---------|
| Items Frices in SR         Items Frices in SR         Prices $m^2$ $m^2$ $18$ $18$ $8$ $54$ $m^2$ $75$ $75$ $75$ $75$ $54$ $225$ $m^2$ $75$ $75$ $75$ $75$ $75$ $210$ $m^2$ $70$ $75$ $75$ $75$ $75$ $225$ $m^2$ $70$ $76$ $76$ $76$ $72$ $225$ smooth American Texture) $m^2$ $14$ $14$ $14$ $14$ $14$ $42$ (smooth American Texture) $m^2$ $760$ $560$ $780$ $780$ $422$ (smooth American Texture) $m^2$ $140$ $144$ $144$ $144$ $42$ (smooth American Texture) $m^2$ $700$ $560$ $560$ $600$ $422$ (smooth American Texture) $m^2$ $144$ $144$ $144$ $142$ $422$ (smooth American Texture)         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 78                                      | Work Items                                                                   | Unit           | 95/2/1 | 95/2/2 | 95/2/3                     |           | Total   | JO      |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | :                                       |                                                                              |                |        |        | Items Pric                 | ces in SR | Prices  | Samples |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         | Dlastic weather-resistant maints                                             | m²             | 18     | 18     | 18                         |           | 54      | 3       |
| m²         75         75         75         75         75         75         75         75         225         225           m²         50         50         50         50         50         50         150         150           smooth American Texture)         m²         40         40         40         40         42         42           smooth American Texture)         m²         14         14         14         14         42         42           smooth American Texture)         m²         560         560         560         560         560         42         42           watt) with plastic covec ceiling mounted         No         184         184         184         1680         552         553           0 watt) with reflector         No         1400         1400         1400         702         552         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553         553                                                                          | _                                       | units statts contain forms                                                   | ц <sup>2</sup> | 09     | 60     | 60                         |           | 180     | 3       |
| m²         50         50         50         50         50         150         150           smooth American Texture)         m²         10         40         40         40         40         42           smooth American Texture)         m²         14         14         14         2         42           (smooth American Texture)         m²         14         14         14         2         42           (smooth American Texture)         m²         560         560         560         560         42           watt), with plastic cover ceiling mounted         No.         184         184         184         552           owatt) with reflector         No.         1400         1400         1400         1400         552           owatt) with reflector         No.         234         234         234         572           Amps)         No.         234         234         234         572         500           Amps)         No.         6608         6608         6136         6686         6136         5639           Maps)         m         131         131         33         333         333           Stant/220 volt lamp)                                                                                       | i e                                     | Travlator laver for moisture                                                 | m²             | 75     | 75     | 75                         |           | 225     | 3       |
| m²         40         40         40         40         120           smooth American Texture )         m²         14         14         14         42           (smooth American Texture )         m²         14         14         14         42           (smooth American Texture )         m²         560         560         560         560         40           m²         560         560         560         560         560         563         42           watt) with reflector         m²         780         780         780         780         730           watt) with reflector         No.         184         184         1680         552           0 watt) with reflector         No.         200         200         200         4140           Amps)         No.         234         234         702         702           Amps)         No.         138         138         138         414         702 $dottin 125 wat/220 volt lamp)         No.         234         234         702         702           Amps)         No.         138         138         138         333         414           dotti 1300    $                                                                                                            | 2                                       | Thermal insulation. horizontal                                               | m²             | 50     | 50     | 50                         |           | 150     | 3       |
| mooth American Texture ) $m^2$ 14         14         14         42 $(smooth American Texture )$ $m^2$ 14         14         14         42 $(smooth American Texture )$ $m^2$ 560         560         560         42 $(smooth American Texture )$ $m^2$ 560         560         560         60         42 $(smooth American Texture )$ $m^2$ 780         780         780         780         42 $(smooth American Texture )$ $m^2$ 780         780         560         560         560         560         552 $(smoth Vith reflector         No.         140         140         140         702         552           (smoth Vith reflector         No.         138         138         138         734         702           (smoth Vith reflector         No.         138         138         138         138         702           (smoth Vith reflector         No.         138         138         138         138         702           (smoth Vith Reflector         No.         138         138         138         138         702     $                                                                                                                                                                                                       | ŝ                                       | Thermal insulation, vertical                                                 | m²             | 40     | 40     | 40                         |           | 120     | e<br>G  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | i F                                     | Plastic naints for interior walls ( smooth American Text                     | m²             | 14     | 14     | 14                         |           | 42      | с       |
| m²         560         560         560         560         1680         1680           watt), with plastic cover ceiling mounted         m²         780         780         780         780         2340           0 watt), with plastic cover ceiling mounted         No.         184         184         184         552           0 watt) with reflector         No.         200         200         200         200         500           10 vith reflector         No.         1400         1400         1400         1400         4100         4200           Amps)         No.         138         138         138         33         33         414           Amps)         No.         138         138         138         33         553         56395         66395         66395         66395         66395         66395         673         702         702         102         102         702         103         702         103         702         103         103         103         103         103         103         103         103         103         103         103         103         103         103         103         103         103         113         131                                                       | :  ?                                    | Dlastic naints for interior ceilings ( smooth American Texture )             | m²             | 14     | 14     | 14                         |           | 42      | с       |
| mattly, with plastic cover ceiling mounted         m²         780         780         780         780         780         780         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         2340         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         234         235         66395         66395                   | 15                                      |                                                                              | m²             | 560    | 560    | 560                        |           | 1680    | 3       |
| watt), with plastic cover celling mounted         No.         184         184         184         6         552           0 watt) with reflector         No.         200         200         200         0         600         600           vith 125 watt/220 volt lamp)         No.         1400         1400         1400         1400         1400         600           vith 125 watt/220 volt lamp)         No.         234         234         234         702         702           Amps)         No.         138         138         138         138         138         702           (t)         No.         66395         66395         66395         66395         66395         65395         9         702           (t)         No.         66064         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60864         60                           | 24                                      | Hollow metallic doors                                                        | m²             | 780    | 780    | 780                        |           | 2340    | e.      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 22                                      | Fluorescent lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.            | 184    | 184    | 184                        |           | 552     | ς       |
| vith 125 watt/220 volt lamp)       No.       1400       1400       1400       1400       1400       1400       1400         Amps)       No.       234       234       234       234       702       702         Amps)       No.       138       138       138       138       702       702 $(1)$ No.       66395       66395       66395       66395       66395       702       702 $g$ No.       66395       66395       66395       66395       66395       702       702 $g$ No.       66364       60864       60864       60864       60864       702       702 $g$ $m$ 131       131       131       31       313       393 $1800$ BUT/h,KW)       No. $2820$ $2820$ $2820$ $2820$ $8460$ 675 $1800$ BUT/h,KW)       No. $2960$ $2960$ $2960$ $2960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$ $960$                                                                                                                                                                                                                                                                                                                                                                                              | 20                                      | Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.            | 200    | 200    | 200                        |           | 600     | e       |
| Amps)Amps)No.23423423423410702(l)(l)No.138138138138414 $g$ No.663956639566395663956195199185 $g$ No.6639566395663956639566395702 $g$ No.6639566395663956639566395702 $g$ No.60864608646086460864702393 $g$ m131131131131313393 $g$ m225225225225725675 $g$ No.28202820282028208460 $f$ No.5605605605601680 $f$ No.29602960296029608880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 27                                      | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 1400   | 1400   | 1400                       |           | 4200    | e<br>G  |
| (l)       (l) <th(< td=""><td>28</td><td>Switch. A/C. window type (2x30 Amps)</td><td>No.</td><td>234</td><td>234</td><td>234</td><td></td><td>702</td><td>ε</td></th(<> | 28                                      | Switch. A/C. window type (2x30 Amps)                                         | No.            | 234    | 234    | 234                        |           | 702     | ε       |
| g         No.         66395         66395         66395         61395         199185 $(95 \text{ nm}^2)$ No.         60864         60864         60864         60864         393 $(95 \text{ nm}^2)$ m         131         131         131         313         393 $(95 \text{ nm}^2)$ m         225         225         225         7         393 $(1800 \text{ BUT/h, KW)}$ m         225         225         225         7         675 $(1800 \text{ BUT/h, KW)}$ No.         2820         2820         5820         5820         5820         8460 $(1800 \text{ BUT/h, KW)}$ No.         560         560         560         560         560         1680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 29                                      | Lighting switch (15 Amps/127 volt)                                           | No.            | 138    | 138    | 138                        |           | <br>414 | 3       |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ę                                       | Main switchboard. school building                                            | No.            | 66395  | 66395  | 66395                      |           | 199185  | 3       |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                       | Main distribution panelboard                                                 | No.            | 60864  | 60864  | 60864                      |           | 182592  | ę       |
| ize 30x240x120mm <sup>2</sup> ) m 225 225 225 6 675<br>1800 BUT/h,KW) No. 2820 2820 2820 820 820 8460<br>) 800 BUT/h,KW) No. 2560 560 560 760 860 860 860 860 880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | : 6                                     | Thernonlastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 131    | 131    | 131                        |           | 393     | б       |
| . 1800 BUT/h,KW) No. 2820 2820 2820 820 820 8460 8460 950 950 950 950 950 950 950 950 950 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | : ::::::::::::::::::::::::::::::::::::: | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 225    | 225    | 225                        |           | 675     | 3       |
| No.         560         560         560         560         560         1680           No.         2960         2960         2960         2960         8880         8880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                                       | A/C unit windows type (cool/heat 1800 BUT/h.KW)                              | No.            | 2820   | 2820   | 2820                       |           | 8460    | 3       |
| No. 2960 2960 2960 2960 8980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ÷.                                      | Ceiling air fan {dia 42cm (56in)}                                            | No.            | 560    | 560    | 560                        |           | 1680    | 3       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                       | Drinking water cooler (tank type)                                            | No.            | 2960   | 2960   | 2960                       |           | 8880    | 3       |

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# Table 4.63Calculation of the Prices of Price Index ItemsEducational Area - Eastern ProvinceYear 1995

|    |                                                     |                 |        | Proje  | Project Code Number | e Numl | ber |           | The    | The No. |
|----|-----------------------------------------------------|-----------------|--------|--------|---------------------|--------|-----|-----------|--------|---------|
| #  | Work Items                                          | Unit            | 95/3/1 | 95/3/2 |                     |        |     |           | Total  | o       |
|    |                                                     | •               |        | Iten   | Items Prices in SR  | in SR  |     |           | Prices | Samples |
| -  | Excavation work                                     | ۳               | 25     | 25     | -                   |        |     |           | 50     | 2       |
| 7  | Backfilling work                                    | ۶               | 20     | 20     |                     |        |     |           | 40     | 2       |
| 3  | 3 Excavation work for the foundation                | em <sup>3</sup> | 28     | 28     |                     |        |     |           | 56     | 2       |
| 4  | 4   Plain concrete work under the foundation        | em <sup>3</sup> | 325    | 325    |                     |        |     |           | 650    | 2       |
| ∽  | 5 Reinforced concrete work for the foundation       | ٣               | 675    | 675    |                     |        |     |           | 1350   | 2       |
| 6  | 6 Natural crushed stone sub-base coarse             | m²              | 36     | 36     |                     |        |     |           | 72     | 2       |
| 5  | Building made from Calcium Silicate Bricks          | m <sup>2</sup>  | 385    | 385    |                     |        |     |           | 770    | 2       |
| ∞  |                                                     | m <sup>2</sup>  | 35     | 35     |                     |        |     |           | 70     | 2       |
| 0  | 1                                                   | m²              | 28     | 28     |                     |        |     |           | 56     | 2       |
| 2  | 10 Reinforced concrete for the whole superstrucutre | em <sup>3</sup> | 980    | 980    |                     |        |     |           | 1960   | 2       |
| =  | 11 CMU walls with 15 cm thickness                   | m²              | 30     | 30     |                     |        |     |           | 60     | 2       |
| 12 | 12 CMU walls with 20 cm thickness                   | m²              | 35     | 35     |                     |        |     |           | 70     | 2       |
| 13 | 13 Glazed mosaic tiles (size 30x30x3cm)             | m <sup>2</sup>  | 38     | 38     |                     |        |     |           | 76     | 7       |
| 4  | 14 Floor tiling                                     | m²              | 30     | 30     |                     |        |     |           | 60     | 2       |
| 5  | 15 Natural marble of stairs                         | Ħ               | 200    | 200    | -                   |        |     |           | 400    | 2       |
|    |                                                     |                 |        |        |                     |        | Ŭ   | Continued |        | -       |

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### Table 4.63 continued

|     |                                                                                 |                |        | Proj   | <b>Project Code Number</b> | e Numb  | er | The    | The No. |
|-----|---------------------------------------------------------------------------------|----------------|--------|--------|----------------------------|---------|----|--------|---------|
| #   | Work Items                                                                      | Unit           | 95/3/1 | 95/3/2 |                            |         |    | Total  | JO      |
| :   |                                                                                 |                |        | Ite    | Items Prices in SR         | i in SR |    | Prices | Samples |
| 4   | 16 Dlastic weather-resistant naints                                             | m²             | 18     | 18     |                            |         |    | 36     | 2       |
| 2 2 | 17 White olazed ceramic tiles                                                   | m²             | 60     | 60     |                            |         |    | 120    | 2       |
| i ¤ | Thus been the moisture                                                          | m²             | 40     | 40     |                            |         |    | 80     | 2       |
| 2 2 | Themal insulation. Aorizontal                                                   | m²             | 24     | 24     |                            |         |    | 48     | 2       |
| ŝ   | Thernal insulation. vertical                                                    | m²             | 20     | 20     |                            |         |    | 40     | 5       |
| 7   | 21 Plastic naints for interior walls ( smooth American Texture )                | m²             | 15     | 15     |                            |         |    | 30     | 2       |
| 5   | 23 [Plastic naints for interior ceilings (smooth American Texture)              | m²             | 15     | 15     |                            |         |    | 30     | 2       |
| 18  | 23 Aluminum windows                                                             | m <sup>2</sup> | 575    | 575    |                            |         |    | 1150   | 2       |
| 24  | 24 Hollow metallic doors                                                        | m²             | 780    | 780    |                            |         |    | 1560   | 2       |
|     | 25 Fluorescent lighting fixture. (1x4 watt). with plastic cover ceiling mounted | No.            | 189    | 189    |                            |         |    | 378    | 2       |
| 2   | 26 Fluorescent lighting fixture. (2x40 watt) with reflector                     | No.            | 200    | 200    |                            |         |    | 400    | 2       |
| 27  | 27 I amn-post for the site (4m high with 125 watt/220 volt lamp)                | No.            | 1420   | 1420   |                            |         |    | 2840   | 2       |
| 28  |                                                                                 | No.            | 240    | 240    |                            |         |    | 480    | 2       |
| 29  | 29 [Lighting switch (15 Amps/127 volt)                                          | No.            | 145    | 145    |                            |         | _  | 290    | 2       |
| 8   | 30 Main switchboard, school building                                            | No.            | 66500  | 66500  |                            |         |    | 133000 | 2       |
| Ē   | 31 Main distribution panelboard                                                 | No.            | 60870  | 60870  |                            |         |    | 121740 | 2       |
| 5   | 32 Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )                         | E              | 133    | 133    |                            |         |    | 266    | 5       |
| ÷   | 33 Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 227    | 227    |                            |         |    | 454    | 7       |
| 34  | 34 A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 2200   | 2200   |                            |         |    | 4400   | 7       |
| 3   | 35 [Ceiling air fan dia {142cm (56in)}                                          | No.            | 550    | 550    |                            |         |    | 1100   | 2       |
| 36  | 36   Drinking water cooler (tank type)                                          | No.            | 2950   | 2950   |                            |         |    | 5900   | 2       |
| \$  | fully and some first the second second second dimensional                       |                |        |        |                            |         |    |        |         |

#### 4.2.2 CALCULATION OF AVERAGE QUANTITIES AND PRICES:

This section consists of the calculation of the base year quantities and the calculation of the average prices for the six periods.

#### 4.2.2.1 Calculation of the Average Base Year Quantities:

The sum of quantities and the sum of the number of samples has been taken from Tables 4.43 - 4.45 and listed in Table 4.64. the average of quantities for each item has been calculated and listed in Table 4.64 also.

## Table 4.64Calculation of The Average QuantitiesYear 1990

| L        |                                         | F              |                  |                          |                     | Ē                | The # of Samples   | les                 | The     |      |
|----------|-----------------------------------------|----------------|------------------|--------------------------|---------------------|------------------|--------------------|---------------------|---------|------|
|          |                                         |                | The Su           | The Sum of Quantities in | ities in            | Fre              | From Each Region   | don                 | Total   | The  |
| 77       | Work Items                              | Unit           | The              | Three Regions            | ions                | Int              | In the Three Areas | eas                 | # of    | Avg. |
| :        |                                         | L              | Ryd <sup>1</sup> | Jed <sup>2</sup>         | E.Prov <sup>3</sup> | Ryd <sup>1</sup> | Jed <sup>2</sup>   | E.Prov <sup>3</sup> | Samples | Qty. |
| -        | Excavation work                         | °m             | 13550            | 8730                     | 10200               | 6                | Q                  | 6                   | 18      | 1804 |
| ·   ~    |                                         | ۳ <sup>3</sup> | 13650            | 11250                    | 15970               | 6                | 9                  | 6                   | 18      | 2271 |
| 2 "      |                                         | в <sup>3</sup> | 9400             | 11600                    | 12850               | 6                | 9                  | 9                   | 18      | 1881 |
|          |                                         | е́щ            | 1500             | 1795                     | 1825                | 6                | 6                  | 6                   | 18      | 284  |
| ~        |                                         | m <sup>3</sup> | 3515             | 3450                     | 3655                | 6                | 9                  | 9                   | 18      | 590  |
|          |                                         | m <sup>2</sup> | 2730             | 2700                     | 2790                | 6                | 9                  | 9                   | 18      | 457  |
| -        | 1                                       | m²             | 3970             | 3800                     | 4890                | 6                | 9                  | 9                   | 18      | 703  |
| ~        |                                         | m2             | 20340            | 18650                    | 24100               | 6                | 6                  | 6                   | 18      | 3505 |
| 0        | -                                       | m2             | 9840             | 9750                     | 9840                | 6                | 9                  | 6                   | 18      | 1635 |
|          |                                         | г              | 6240             | 6220                     | 6240                | 6                | 6                  | 6                   | 18      | 1039 |
| *  =     |                                         | m <sup>2</sup> | 10170            | 10095                    | 10170               | 6                | 9                  | 6                   | 18      | 1691 |
| 12       | CMU walls with 20 cm thickness          | m²             | 14760            | 14760                    | 14760               | 6                | 9                  | 9                   | 18      | 2460 |
| <u>۳</u> | 13 Glazed mosaic tiles (size 30x30x3cm) | m <sup>2</sup> | 15480            | 15480                    | 15480               | 6                | 6                  | 6                   | 18      | 2580 |
| 7        | 14 Floor tiling                         | m²             | 9006             | 8915                     | 0006                | 6                | 9                  | 6                   | 18      | 1495 |
| ≌        | 15 Natural marble of stairs             | æ              | 1176             | 1168                     | 1176                | 6                | 6                  | 6                   | 18      | 196  |
|          |                                         |                |                  |                          |                     |                  |                    |                     |         |      |

Ryd refers to Riyadh
 Jed refers to Jeddah
 E. Prov refers to Eastern Province

| L             |                                                                                  |      |        |                          |          | Th  | The # of Samples   | es     | The     |      |
|---------------|----------------------------------------------------------------------------------|------|--------|--------------------------|----------|-----|--------------------|--------|---------|------|
|               |                                                                                  |      | The Su | The Sum of Quantities in | ities in | Fro | From Each Region   | lon    | Total   | The  |
| #             | Work Items                                                                       | Unit | The    | The Three Regions        | lions    | Int | In the Three Arcas | cas    | # of    | Avg. |
|               |                                                                                  |      | Ryd    | Jed                      | E.Prov   | Ryd | Jed                | E.Prov | Samples | Qty. |
| 4             | <ul> <li>Plastic weather-resistant paints</li> </ul>                             | m²   | 39300  | 39170                    | 39300    | 9   | 6                  | 6      | 18      | 6543 |
| 2 12          |                                                                                  | m²   | 5460   | 5390                     | 5460     | 6   | 6                  | 6      | 18      | 906  |
| =  =          |                                                                                  | m²   | 11100  | 11015                    | 11100    | 6   | 6                  | 6      | 18      | 1845 |
| 10            | Thermal insulation. horizontal                                                   | m²   | 8880   | 8800                     | 8880     | . 6 | 6                  | 6      | 18      | 1476 |
| , c           | Thermal insulation. Vertical                                                     | m²   | 9300   | 9300                     | 9300     | 6   | 6                  | 6      | 18      | 1550 |
| 3 2           | Plastic naints for interior walls (smooth American Texture)                      | m²   | 13680  | 13680                    | 13680    | 6   | 6                  | 6      | 18      | 2280 |
| 3 8           |                                                                                  | m²   | 10020  | 10020                    | 10020    | 6   | 6                  | 6      | 18      | 1670 |
| 1 5           | Aluminum windows                                                                 | m²   | 2094   | 2089                     | 2094     | 6   | 6                  | 6      | 18      | 349  |
| 24            | I Hollow metallic doors                                                          | m²   | 1020   | 1020                     | 1020     | 6   | 6                  | 6      | 18      | 170  |
| 2             | Elliptic sector lighting fixture. (1x4 watt), with plastic cover ceiling mounted | No.  | 618    | 608                      | 618      | 6   | 6                  | 6      | 18      | 102  |
| 2             |                                                                                  | No.  | 1746   | 1746                     | 1746     | 9   | 6                  | 6      | 18      | 291  |
| 1 2           |                                                                                  | No.  | 165    | 157                      | 234      | 6   | 6                  | 6      | 18      | 31   |
| , č           | Rwitch. A/C. window type (2x30 Amps)                                             | No.  | 492    | 488                      | 492      | 6   | 6                  | 6      | 18      | 82   |
| il ي          |                                                                                  | No.  | 846    | 827                      | 846      | 6   | 6                  | 6      | 18      | 140  |
| 30            | Main switchboard, school building                                                | No.  | 9      | 6                        | 6        | 6   | 6                  | 6      | 18      | -    |
| [ <del></del> | 31 Main distribution panelboard                                                  | No.  | 6      | 6                        | 6        | 6   | 6                  | 9      | 18      | -    |
| 33            | [Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                            | E    | 1630   | 1560                     | 1560     | 6   | 6                  | 6      | 18      | 264  |
| ÷۱            |                                                                                  | u    | 1530   | 2170                     | 2460     | 6   | 6                  | 6      | 18      | 342  |
| 7             | A/C unit windows type (cool/heat 1800 BUT/h.KW)                                  | No.  | 492    | 497                      | 492      | 6   | 6                  | 9      | 18      | 82   |
| 35            | Ceiling air fan {dia 142cm (56in)}                                               | No.  | 480    | 476                      | 480      | 6   | 6                  | 6      | 18      | 80   |
| <u> </u>      | 36 Drinking water cooler (tank type)                                             | No.  | 60     | 60                       | 60       | 6   | 6                  | 6      | 18      | 10   |
| ŝ             |                                                                                  |      |        |                          |          |     |                    |        |         |      |

 Table 4.64 continued

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#### 4.2.2.2 Calculation of the Average of Item Prices for the Six Periods:

The sum of prices and the sum of the number of samples for each item from the three areas for the year 1990 has been taken from Tables 4.46-4.48 and listed in Table 4.65. The average of prices for each item has been calculated and listed in Table 4.65. This procedures has been repeated for the other periods: 1991-1995 in Tables 4.66 - 4.70 respectively.

### Table 4.65 Calculation of The Average of Item Prices Year 1990

| The Sum of Prices in<br>The Sum of Prices in<br>Figure Regions (SR)         From Each Region         Total           The Three Regions (SR)         In the Three Regions         From Each Regions         Forthere Regions           Ryd         Jed         E.Prov         Ryd         Jed         E.Prov         Samples           Ryd         Jed         E.Prov         Ryd         Jed         E.Prov         Samples           124         74         39         5         6         6         6         18           124         74         39         5         6         6         6         18           1389         1339         1052         6         6         6         18         18           1389         1339         1052         6         6         6         18         18           396         282         560         6         6         6         18         18           396         282         66         6         6         18         18           396         282         66         6         18         18           397         292         132         66         6         18           333                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |        |             |         | £L.   | The # of Samples | 5      | The     | The    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|-------------|---------|-------|------------------|--------|---------|--------|
| Work Items         Unit         The Three Regions (SF)         In the Three Regions         # of           Rycd         Jed         E.Prov         Ryd         Jed         E.Prov         Samples           m <sup>3</sup> 124         74         39         5         5         4         14           m <sup>3</sup> 107         77         62         6         6         6         18           er the foundation         m <sup>3</sup> 186         1339         1052         6         6         6         18           for the foundation         m <sup>3</sup> 1389         1319         1052         6         6         6         18           k for the foundation         m <sup>3</sup> 3029         4100         3340         6         6         6         18           k for the foundation         m <sup>3</sup> 399         336         288         6         6         18           k for the foundation         m <sup>3</sup> 339         336         288         6         6         18           k for the foundation         m <sup>3</sup> 339         336         288         6         6         18           k for tho foundation         m <sup>3</sup> <t< td=""><td></td><td></td><td></td><td>The S</td><td>tum of Pric</td><td>es in</td><td>Frc</td><td>om Each Reg</td><td>lon</td><td>Total</td><td>Avg.</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | The S  | tum of Pric | es in   | Frc   | om Each Reg      | lon    | Total   | Avg.   |
| Ryd         Jed         E.Prov         Ryd         Jed         E.Prov         Samples $m^2$ 124         74         39         5         4         14         14           foundation $m^2$ 107         77         62         6         6         18         14           foundation $m^2$ 1389         1339         1339         6         6         6         18         18           foundation $m^2$ 3139         1339         1339         6         6         6         18         18           k for the foundation $m^2$ 3139         1339         132         6         6         6         18         18           k for the foundation $m^2$ 396         282         560         6         6         6         18         18           k for the foundation $m^2$ 396         282         560         6         6         18         18         18           k for the foundation $m^2$ 396         282         560         6         6         18         18           k for the foundation $m^2$ <th>72</th> <th>Work Items</th> <th>Unit</th> <th>The Th</th> <th>iree Regio</th> <th>ns (SR)</th> <th>In th</th> <th>ie Three Rej</th> <th>tions</th> <th># of</th> <th>Prices</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 72          | Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit           | The Th | iree Regio  | ns (SR) | In th | ie Three Rej     | tions  | # of    | Prices |
| $ \begin{array}{l lllllllllllllllllllllllllllllllllll$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | :           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | Ryd    | Jed         | E.Prov  | Ryd   | Jed              | E.Prov | Samples | (SR)   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | Rveavation work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E <sup>m</sup> | 124    | 74          | 39      | 5     | S                | 4      | 14      | 16.93  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - ~         | Davefilling work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ē              | 107    | 77          | 62      | 9     | 9                | 9      | 18      | 13.67  |
| methodation $m^3$ 1389133910526661818k for the foundation $m^3$ 4029410033406661818b-base coarse $m^3$ 3952825606661818b-base coarse $m^2$ 3962825606661818cium Silicate Bricks $m^2$ 3393362886661818cfcm) $m^2$ 1221351226661818the whole superstructure $m^2$ 2012291926661818the whole superstructure $m^2$ 2342622146661818thickness $m^2$ 23426221466661818thickness $m^2$ 23426221466661818thickness $m^2$ 2342622146666181818thickness $m^2$ 23623329266661818181818181818181818181818181818181818181818181818181818181818181818181                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4 9         | Broaution work for the foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | г<br>Ш         | 186    | 154         | 90      | 9     | 9                | 9      | 18      | 23.89  |
| x for the foundation $m^3$ 4029       4100       3340       6       6       6       18       18         the foundation $m^2$ 396       282       560       6       6       6       18       18         the base contract $m^2$ 396       282       560       6       6       6       18       18         the base contract $m^2$ 339       336       288       6       6       6       18       18         c5cm) $m^2$ 122       135       122       6       6       6       18       18         c5cm) $m^2$ 122       135       122       6       6       6       18       18         the whole superstructe $m^3$ 201       229       192       6       6       6       18       18         thickness $m^2$ 234       262       214       6       6       6       18       18         the whole superstructe $m^2$ 234       262       214       6       6       6       18       18         thickness $m^2$ 233       229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -<br> -     | Dain concrete work under the foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ГШ<br>Ш        | 1389   | 1339        | 1052    | 9     | 9                | 9      | 18      | 210.00 |
| $ \begin{array}{c cccc} m^2 & 396 & 282 & 560 & 6 & 6 & 6 & 18 \\ \mbox{tb} base coarse \\ $ | +   v       | I fail volution more during the foundation<br>Dainforced concrete work for the foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | E<br>E         | 4029   | 4100        | 3340    | 9     | 9                | 9      | 18      | 637.17 |
| counsilicate Bricks $m^2$ 5994123126661818 $c5cm$ $m^2$ 339336288666188 $c5cm$ $m^2$ 132135122666188 $m$ thickness $m^3$ 430144263630666188 $m$ thickness $m^3$ 201229192666188thickness $m^2$ 234262214666188thickness $m^2$ 236333292666188 $m$ solvation $m^2$ 210201198666188 $m$ solvation $m^2$ 210201198666188 $m^2$ 21020119866618886188 $m^2$ 21020119866661818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818181818                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             | Availuoused voite events of the contraction of the contraction of the source of the so | т <sup>2</sup> | 396    | 282         | 560     | 6     | 9                | 9      | 18      | 68.78  |
| $x_{5cm}$ $m^2$ $336$ $288$ $6$ $6$ $6$ $18$ $m$ thickness $m^2$ $122$ $135$ $122$ $6$ $6$ $6$ $18$ $m$ thickness $m^3$ $4301$ $4426$ $3630$ $6$ $6$ $6$ $18$ $m$ thickness $m^3$ $201$ $229$ $192$ $6$ $6$ $6$ $18$ $m$ thickness $m^2$ $201$ $229$ $192$ $6$ $6$ $6$ $18$ $m$ thickness $m^2$ $234$ $262$ $214$ $6$ $6$ $6$ $18$ $m$ thickness $m^2$ $234$ $262$ $214$ $6$ $6$ $6$ $18$ $m$ thickness $m^2$ $236$ $262$ $214$ $6$ $6$ $6$ $18$ $18$ $m^2$ $236$ $262$ $214$ $6$ $6$ $6$ $18$ $18$ $18$ $18$ $18$ $18$ $18$ $18$ $18$ $18$ $18$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | Ruitding made from Calcium Silicate Bricks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ē              | 599    | 412         | 312     | 9     | 9                | 6      | 18      | 73.50  |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | Donorata navare (d0vd0v5cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m2             | 339    | 336         | 288     | 9     | 9                | 9      | 18      | 53.50  |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             | Consister parties (Total Vary 2011)<br>Diain concrete with 10 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E <sup>2</sup> | 122    | 135         | 122     | 9     | 9                | 9      | 18      | 21.06  |
| m²       201       229       192       6       6       6       18         thickness       m²       234       262       214       6       6       6       18         thickness       m²       234       262       214       6       6       6       18 $30x30x3cm$ m²       335       333       292       6       6       6       18 $m²$ 210       201       198       6       6       6       18       18 $m$ 965       996       828       6       6       6       18       18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>    | A fain concrete for the whole superstructifie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | е              | 4301   | 4426        | 3630    | 6     | 9                | 9      | 18      | 686.50 |
| thickness $m^2$ 234     262     214     6     6     6     18 $330x30x3cm$ $m^2$ 336     333     292     6     6     6     18 $m^2$ 210     201     198     6     6     18 $m$ 965     996     828     6     6     18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2           | CMII walks with 15 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m²             | 201    | 229         | 192     | 6     | 9                | 9      | 18      | 34,56  |
| $\frac{m^2}{m} = 336 \qquad 333 \qquad 292 \qquad 6 \qquad 6 \qquad 6 \qquad 18 \qquad 18 \qquad 18 \qquad 18 \qquad 18 \qquad $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | :  <u>-</u> | CMTI walls with 20 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m²             | 234    | 262         | 214     | 6     | 9                | 9      | 18      | 39.44  |
| m <sup>2</sup> 210 201 198 6 6 6 18 18 m 965 996 828 6 6 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12          | Glazed mosaic tiles (size 30x30x3cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ۲ą             | 336    | 333         | 292     | 9     | 9                | 9      | 18      | 53.39  |
| m 965 996 828 6 6 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2           | Under filing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ر<br>۳         | 210    | 201         | 198     | 9     | 9                | 9      | 18      | 33.83  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | : ×         | a 2002 minis<br>Mathral marhle of stairs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | E              | 965    | 966         | 828     | 9     | 9                | 9      | 18      | 154.94 |

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| L           |                                                                             |                  |        |                        |         |       | The # of Samples     | es     | The     | The      |
|-------------|-----------------------------------------------------------------------------|------------------|--------|------------------------|---------|-------|----------------------|--------|---------|----------|
|             |                                                                             |                  | The {  | The Sum of Prices in   | es in   | Fro   | From Each Region     | lon    | Total   | Avg.     |
| #           | Work Items                                                                  | Unit             | The T  | The Three Regions (SR) | ns (SR) | In th | In the Three Regions | tions  | # of    | Prices   |
| :           |                                                                             |                  | Ryd    | Jed                    | E.Prov  | Ryd   | Jed                  | E.Prov | Samples | (SR)     |
| 4           | Dlastic weather-resistant paints                                            | Ē                | 215    | 234                    | 165     | S     | 6                    | 4      | 15      | 40.93    |
| 2 2         |                                                                             | ۳<br>۳           | 404    | 321                    | 392     | 9     | 6                    | 9      | 18      | 62.06    |
| : ≃         | 18 Insulator laver for moisture                                             | г<br>Ш           | 185    | 187                    | 196     | 9     | 6                    | 9      | 18      | 31.56    |
| 2  <b>2</b> | 19 Thermal insulation. horizontal                                           | m2               | 178    | 180                    | 158     | 6     | 9                    | 6      | 18      | 28.67    |
| ŝ           | 20 Thomas insulation vertical                                               | т <mark>7</mark> | 144    | 157                    | 120     | 6     | 6                    | 6      | 18      | 23.39    |
| 3           | Plastic paints for interior walls (smooth American Texture)                 | m²               | 217    | 182                    | 154     | 6     | 6                    | 6      | 18      | 30.72    |
| : 2         | 23 [Plastic naints for interior ceilings (smooth American Texture)          | m²               | 212    | 203                    | 154     | 6     | 9                    | 9      | 18      | 31.61    |
| 16          | 23 Aluminum windows                                                         | m2               | 2359   | 3080                   | 2463    | 9     | 9                    | 6      | 18      | 439.00   |
| 3           | 24 Hollow metallic dorts                                                    | Ē                | 2620   | 3521                   | 2500    | 9     | 9                    | 9      | 18      | 480.06   |
| 2           | Finorescent lighting fixture (1x4 watt), with plastic cover ceiling mounted | °<br>N           | 1220   | 1547                   | 1704    | 9     | 9                    | 9      | 18      | 248.39   |
| 26          | Fluorescent lighting fixture. (2x40 watt) with reflector                    | °N<br>No         | 1600   | 1804                   | 1880    | 6     | 9                    | 9      | 18      | 293.56   |
| 2           | 27 It amm-most for the site (4m high with 125 watt/220 volt lamp)           | °N<br>N          | 6810   | 10967                  | 6255    | 9     | 9                    | 9      | 18      | 1335.11  |
| 280         | Switch A/C window tyne (2x30 Amos)                                          | No.              | 1300   | 1719                   | 1200    | 9     | 9                    | 9      | 18      | 234.39   |
| 3           | 29 It johting switch (15 Amos/127 volt)                                     | No.              | 770    | 996                    | 006     | 9     | 9                    | 9      | 18      | 146.44   |
|             | Main switchboard, school building                                           | No.              | 112000 | 153667                 | 109000  | 6     | 9                    | 6      | 18      | 20814.83 |
| -<br>-      | Main distribution panelboard                                                | No.              | 110000 | 178667                 | 121000  | 6     | 9                    | 6      | 18      | 22759.28 |
| :  <b>?</b> | 37 Thermonlastic cable (size 3x185x95 mm <sup>2</sup> )                     | E                | 749    | 1003                   | 820     | 6     | 9                    | 9      | 18      | 142.89   |
| 3 2         | Reinforced thermonlastic cable (size 30x240x120mm²)                         | 8                | 1295   | 1293                   | 1136    | 9     | 9                    | 9      | 18      | 206.89   |
| 5 F         | 34 A/C mit windows type (cool/heat 1800 BUT/h.KW)                           | °2               | 10300  | 10078                  | 10500   | 9     | 9                    | 9      | 18      | 1715.44  |
| ; ~<br>~    | 35 [Ceiline air fan {dia 142cm (56in)}                                      | No.              | 1850   | 2133                   | 2004    | 9     | 9                    | 9      | 18      | 332.61   |
| ÷           | 36 Drinking water cooler (tank type)                                        | No.              | 14900  | 16533                  | 14272   | 9     | 9                    | 9      | 18      | 2539.17  |
| ;]          |                                                                             |                  |        |                        |         |       |                      |        |         |          |

## Table 4.66Calculation of The Average of Item PricesYear 1991

| L              |                                                                                         |                |        |                        |         | Ē     | The # of Samples     | 53     | The     | The    |
|----------------|-----------------------------------------------------------------------------------------|----------------|--------|------------------------|---------|-------|----------------------|--------|---------|--------|
|                |                                                                                         |                | The S  | The Sum of Prices in   | es in   | Fro   | From Each Region     | lon    | Total   | Avg.   |
| =              | Work Items                                                                              | Unit           | The Th | The Three Regions (SR) | ns (SR) | In th | In the Three Regions | dons   | # of    | Prices |
| *              |                                                                                         |                | Ryd    | Jed                    | E.Prov  | Ryd   | Jed                  | E.Prov | Samples | (SR)   |
| ŀ              | Treesed on troub                                                                        | т<br>З         | 92     | 73                     | 72      | 6     | 5                    | 5      | 16      | 14.81  |
| - •            | EXCAVATION WOLK                                                                         | °.             | 85     | 55                     | 103     | 6     | 3                    | 9      | 15      | 16.20  |
| <u> '</u>      |                                                                                         | гп<br>Ш        | 240    | 160                    | 313     | 9     | 9                    | 9      | 18      | 39.61  |
| ~ ·            |                                                                                         | m3             | 1100   | 1745                   | 1373    | 9     | 9                    | 9      | 18      | 234.33 |
| <del>7</del> 4 | r Idiii Colletee Wux under die Journauser<br>Dei Gesch accorde under für the foundation | m <sup>3</sup> | 3570   | 4050                   | 3800    | 9     | 6                    | 6      | 18      | 634.44 |
| <u>_</u>       | -                                                                                       | 2<br>m         | 180    | 365                    | 405     | 9     | 9                    | 9      | 18      | 52.78  |
| 0 r            |                                                                                         | m <sup>2</sup> | 550    | 760                    | 238     | 9     | 9                    | 9      | 18      | 86.00  |
| - •            |                                                                                         | m <sup>2</sup> | 305    | 420                    | 216     | 9     | 9                    | 9      | 18      | 52.28  |
| <b>∞</b>  ∘    |                                                                                         | <sup>2</sup>   | 100    | 115                    | 118     | 9     | 9                    | 9      | 18      | 18.50  |
| 2              | Plain concrete With 10 cm unionicss                                                     | n.             | 3750   | 4300                   | 4320    | 9     | 9                    | 9      | 18      | 687.22 |
| 2              | 10 Remorced concrete tot the whole supersurveux                                         | n<br>T         | 190    | 245                    | 218     | 6     | 6                    | 9      | 18      | 36.28  |
| = :            | CMU Waits With 12 thit directions                                                       | m <sup>2</sup> | 210    | 270                    | 243     | 9     | 9                    | 9      | 18      | 40.17  |
| 2 :            | 12 CIVIO WAIIS WINI 20 CIII UIUCAIICSS                                                  | m <sup>2</sup> | 305    | 340                    | 221     | 9     | 9                    | 9      | 18      | 48.11  |
| 2 2            |                                                                                         | m²             | 205    | 205                    | 162     | 9     | 9                    | 9      | 18      | 31.78  |
| ± ≚            | 14 f.1001 ULUIS<br>15 Metural workla of stairs                                          | E              | 950    | 1100                   | 1042    | 6     | 9                    | 9      | 18      | 171.78 |
| 2              |                                                                                         |                |        |                        |         |       |                      |        |         |        |

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|            |                                                             |                |        |                        |         | ٦<br>٦ | The # of Samples     | 63     | The     | The      |
|------------|-------------------------------------------------------------|----------------|--------|------------------------|---------|--------|----------------------|--------|---------|----------|
|            |                                                             |                | The :  | The Sum of Prices in   | es in   | Fro    | From Each Region     | lon    | Total   | Avg.     |
| #          | Work Items                                                  | Unit           | The Ti | The Three Regions (SR) | ns (SR) | In th  | In the Three Regions | lons   | # of    | Prices   |
|            |                                                             |                | Ryd    | Jed                    | E.Prov  | Ryd    | Jed                  | E.Prov | Samples | (SR)     |
| <u>1</u> 2 | Plastic weather-resistant paints                            | m²             | 185    | 245                    | 184     | 6      | 9                    | 4      | 16      | 38,38    |
| 1          | 17 White glazed ceramic tiles                               | m <sup>2</sup> | 375    | 383                    | 388     | 6      | 9                    | 9      | 18      | 63.67    |
| <u></u> 22 | Insulator layer for moisture                                | m <sup>2</sup> | 215    | 140                    | 161     | 6      | 9                    | 9      | 18      | 28.67    |
| 5          |                                                             | m <sup>2</sup> | 170    | 106                    | 146     | 6      | 9                    | 9      | 18      | 23.44    |
| ຊ          | Thermal insulation, vertical                                | m <sup>2</sup> | 130    | 90                     | 109     | 6      | 6                    | 6      | 18      | 18,28    |
| 51         | Plastic paints for interior walls (smooth American Texture) | m²             | 165    | 205                    | 182     | 6      | 6                    | 9      | 18      | 30.67    |
| 52         |                                                             | m <sup>2</sup> | 165    | 195                    | 183     | 6      | 6                    | 9      | 18      | 30.17    |
| 23         |                                                             | m <sup>2</sup> | 2750   | 2070                   | 2059    | 9      | 6                    | 9      | 18      | 382.17   |
| 24         |                                                             | m <sup>2</sup> | 3300   | 2200                   | 2270    | 9      | 9                    | 9      | 18      | 431.67   |
| ร          |                                                             | No.            | 1500   | 1605                   | 9161    | 6      | 6                    | 6      | 18      | 278.94   |
| 26         | Fluorescent lighting fixture, (2x40 watt) with reflector    | No.            | 1700   | 2155                   | 2150    | 6      | 9                    | 6      | 18      | 333,61   |
| 27         |                                                             | No.            | 5400   | 7000                   | 5745    | 6      | 6                    | 6      | 18      | 1008.06  |
| 28         | -                                                           | No.            | 1200   | 875                    | 2485    | 6      | 9                    | 6      | 18      | 253.33   |
| 29         | Lighting switch (15 Amps/127 volt)                          | No.            | 800    | 850                    | 1390    | 6      | 6                    | 6      | 18      | 168.89   |
| ñ          | 30 Main switchboard, school building                        | No.            | 160000 | 200000                 | 205000  | 6      | 6                    | 6      | 18      | 31388.89 |
| Ē          | Main distribution panelboard                                | No.            | 175000 | 225000                 | 233250  | 6      | 6                    | 6      | 18      | 35180,56 |
| 33         | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )        | u              | 800    | 1070                   | 933     | 6      | 6                    | 6      | 18      | 155.72   |
| 33         |                                                             | E              | 1087   | 1275                   | 1202    | 6      | 6                    | 6      | 18      | 198.00   |
| 34         |                                                             | No.            | 10000  | 10250                  | 9035    | 6      | 6                    | 6      | 18      | 1626.94  |
| 35         | Ceiling air fan {dia 142cm (56in)}                          | No.            | 1850   | 1970                   | 2351    | 6      | 6                    | 9      | 18      | 342.83   |
| 36         | 36 Drinking water cooler (tank type)                        | No.            | 11000  | 12000                  | 18318   | 9      | 9                    | 9      | 18      | 2295.44  |
|            |                                                             |                |        |                        |         |        |                      |        |         |          |

| Table 4.67 | Calculation of The Average of Item Prices | Year 1992 |
|------------|-------------------------------------------|-----------|
|            | Calcula                                   |           |

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|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ╞              |        |                        |         | f.       | The # of Samples     | es         | The     | The     |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|------------------------|---------|----------|----------------------|------------|---------|---------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | The S  | The Sum of Prices in   | es in   | Fro      | From Each Region     | lon        | Total   | Avg.    |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | i      |                        |         |          | to the Three Deriver |            | 4 of    | Drived  |
| 7           | Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit           | The Th | The Three Regions (SK) | NS (3K) | nur      | ie Turce re          | TOTA       | 1 OI    | 27711 T |
| #<br>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | L              | Rvd    | Jed                    | E.Prov  | Ryd      | Jed                  | E.Prov     | Samples | (SR)    |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ĩ.             | 145    | 8                      | 114     | 5        | S                    | 5          | 15      | 22.60   |
| -           | Excavation work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 2      | 8                      | \$5     | ~        | 9                    | 9          | 17      | 13.59   |
| 2           | Backfilling work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ŗ              |        | × I                    | 130     |          |                      | y          | 17      | 24.06   |
| m           | Excavation work for the foundation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ĕ              | £      | 67                     | 201     | ,        |                      | <b>~</b>   | 17      | 240.18  |
|             | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ê              | 1037   | 1820                   | 1220    | ^        | 0                    | •          |         | 01.072  |
| t u         | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | сп<br>П        | 3200   | 4485                   | 3715    | ς        | و                    | 9          | 17      | 620.59  |
| <u></u>     | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | n2             | 153    | 205                    | 442     | S        | 9                    | 6          | 17      | 47.06   |
| ٥           | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7              | 378    | 710                    | 334     | 5        | S                    | S          | 15      | 94.80   |
| 2           | Building made from Calcium Silicate Bricks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ╞              |        | 200                    |         |          | 4                    | 9          | 17      | 48.94   |
| ∞           | Concrete payers (40x40x5cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Έ              | 877    | C87                    | 212     |          | ,                    | <b>)</b> \ |         | 10.00   |
|             | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | m2             | 114    | 150                    | 122     | S        | 0                    | ٥          | 1       | 77.11   |
| <u>}</u>    | Figure Conciste With 10 Min university of the second secon | En.            | 3375   | 4894                   | 3720    | S        | 9                    | 6          | 17      | 705.24  |
| =           | 10 Keintorced concrete for the wrote supersulating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2 44           | 200    | 343                    | 214     | S        | 9                    | 9          | 17      | 44.65   |
| =           | CMU walls with 15 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | 124    | 360                    | 220     | <b>~</b> | 9                    | 9          | 17      | 48,41   |
| 12          | CMU walls with 20 cm thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | =<br>T         | PC.2   |                        | 200     |          | 2                    | 4          | 17      | 51.06   |
| Ľ           | 1.2 Gloved morenic tiles (size 30x3cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ,              | 208    | 302                    | C67     | n        | •                    | 2          |         |         |
| <u>-</u> [- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m <sup>2</sup> | 138    | 180                    | 208     | 5        | 9                    | 6          | 17      | 30.94   |
| -1          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ε              | 810    | 975                    | 948     | 5        | 9                    | 9          | 17      | 160.76  |
| -           | 15 Natural marble of stairs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |        |                        |         |          |                      |            |         |         |

| Work Items                                                        |         |        |                        |         |      |                      |        |         | Ľ        |
|-------------------------------------------------------------------|---------|--------|------------------------|---------|------|----------------------|--------|---------|----------|
|                                                                   |         | The    | The Sum of Prices in   | as in   | Froi | From Fach Region     |        | Total   | Ave.     |
|                                                                   | Unit    | The TI | The Three Regions (SR) | ns (SR) | Inth | In the Three Regions | ions   | # of    | Prices   |
|                                                                   |         | Ryd    | Jed                    | E.Prov  | Ryd  | Jed                  | E.Prov | Samples | (SR)     |
| Diontio uranthae-raciptant nainte                                 | Ē       | 105    | 83                     | 100     | s    | 6                    | 6      | 16      | 18,00    |
|                                                                   | r<br>E  | 302    | 325                    | 431     | 5    | 9                    | 6      | 18      | 58.78    |
|                                                                   | 2<br>B  | 182    | 330                    | 240     | 5    | 6                    | 6      | 18      | 41.78    |
| tal                                                               | ۳<br>۳  | 164    | 115                    | 160     | 5    | 6                    | 6      | 18      | 24.39    |
|                                                                   | m2      | 123    | 170                    | 139     | 5    | 6                    | 9      | 18      | 24.00    |
| dis (smooth American Texture)                                     | m²      | 91     | 83                     | 96      | S    | 9                    | 9      | 18      | 15.00    |
| (9)                                                               | m2      | 92     | 83                     | 96      | 5    | 9                    | 9      | 18      | 15.06    |
|                                                                   | m2      | 1880   | 2400                   | 2550    | 5    | 9                    | 6      | 18      | 379.44   |
| Atuilituut wittows<br>U.Allow metallic doore                      | Ĩ       | 2600   | 0009                   | 3550    | s    | 9                    | 9      | 18      | 675.00   |
| white (1x4 watt) with nlastic cover ceiling mounted               | °2      | 1230   | 1100                   | 1799    | 5    | 6                    | 9      | 18      | 229.39   |
|                                                                   | °2      | 1443   | 1595                   | 1863    | 5    | 6                    | 6      | 18      | 272.28   |
| lamo)                                                             | °,      | 6250   | 12500                  | 8450    | 5    | 6                    | 6      | 18      | 1511.11  |
|                                                                   | .°N     | 1270   | 1475                   | 1095    | 5    | 6                    | 6      | 18      | 213.33   |
|                                                                   | No.     | 604    | 200                    | 006     | 5    | 6                    | 6      | 18      | 122.44   |
|                                                                   | °.<br>V | 88000  | 112000                 | 100500  | 5    | 6                    | 9      | 18      | 16694.44 |
|                                                                   | °<br>Ž  | 107000 | 117000                 | 109250  | 5    | 6                    | 6      | 18      | 18513.89 |
| 85×95 mm²)                                                        | E       | 593    | 645                    | 852     | 5    | 6                    | 6      | 18      | 116.11   |
| Dainformed thermontertic cetter (cize 20x)40x120mm <sup>2</sup> ) | E       | 855    | 1045                   | 1164    | S    | 9                    | 9      | 18      | 170.22   |
|                                                                   | No      | 8280   | 8300                   | 8875    | 5    | 6                    | 6      | 18      | 1414.17  |
|                                                                   | °Ž      | 1557   | 3725                   | 2306    | 5    | 6                    | 9      | 18      | 421.56   |
|                                                                   | °,      | 14000  | 12500                  | 15975   | 5    | 6                    | 6      | 18      | 2359.72  |

### Table 4.67 continued

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## Table 4.68Calculation of The Average Item PricesYear 1993

| L           |                                                 | ŀ               |        |                        |         |       | The # of Samples     | 68     | The     | The    |
|-------------|-------------------------------------------------|-----------------|--------|------------------------|---------|-------|----------------------|--------|---------|--------|
|             |                                                 |                 | The S  | The Sum of Prices in   | es in   | Fro   | From Each Region     | ion    | Total   | Avg.   |
| 7           | Work Items                                      | Unit            | The Th | The Three Regions (SR) | ns (SR) | In th | In the Three Regions | tons   | # of    | Prices |
| *           |                                                 | <u> </u>        | Rvd    | Jed                    | E.Prov  | Ryd   | Jed                  | E.Prov | Samples | (SR)   |
| ŀ           |                                                 | ſ.              | 125    | 50                     | 158     | 5     | 9                    | 3      | 14      | 23.79  |
| - •         |                                                 | n E             | 133    | 81                     | 157     | 9     | 9                    | 5      | 17      | 21.82  |
| ~           |                                                 | Ē               | 282    | 76                     | 213     | 9     | 9                    | 5      | 17      | 33,59  |
| <u>-</u>    | - 1                                             |                 | 1465   | 1702                   | 1310    | 9     | 9                    | 5      | 17      | 263.35 |
| 4           | -                                               |                 | 4715   | 3958                   | 4040    | 9     | 9                    | 5      | 17      | 747.82 |
| <u>-</u>  ` |                                                 | ru <sup>7</sup> | 348    | 241                    | 550     | 9     | 9                    | 5      | 17      | 67.00  |
| <b>o</b>  1 |                                                 | r<br>E          | 915    | 568                    | 680     | 9     | 9                    | 5      | 17      | 127.24 |
|             | _                                               | -<br>-          | 270    | 256                    | 336     | 9     | 9                    | 5      | 17      | 51.24  |
| ∞           | -                                               |                 | 13     | 146                    | 115     | 9     | 9                    | 5      | 17      | 23.06  |
| ∽ !         | Plain concrete with 10 cm thickness             |                 | \$173  | 5193                   | 4340    | 9     | 9                    | 5      | 17      | 865.06 |
| 2           | Reinforced concrete for the Whole supersuration | 12              | 216    | 241                    | 200     | 9     | 9                    | 5      | 17      | 38.65  |
| = :         | 11 CMU walls with 15 cm unckness                | 17<br>17        | 240    | 279                    | 218     | 9     | 9                    | 5      | 17      | 43.35  |
| 2           | 12 CMU walls with 20 cm unckness                | m2              | 289    | 252                    | 277     | 9     | 9                    | 2      | 17      | 48.12  |
| <u>" </u>   | 13 (clazed mosate tites (size JUXJUXJCtity)     | г <sup>а</sup>  | 193    | 176                    | 203     | 9     | 9                    | 5      | 17      | 33.65  |
| ₹ :         | 14 Prioor Ulting                                |                 | 1050   | 869                    | 715     | 6     | 9                    | 5      | 17      | 154.94 |
| -           | 15 Natural marole of sums                       |                 |        |                        |         |       |                      |        |         |        |

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|----------------|-------------------------------------------------------------------------------------------------------------|------------------|--------|------------------------|---------|------|----------------------|--------|---------|----------|
|                |                                                                                                             |                  | ī      |                        |         |      | e Toat Dag           |        | Tatal   | Ava      |
|                |                                                                                                             |                  | The    | The Sum of Prices in   | es in   | L'LO | rrom Each Kegion     | пог    | TULAI   | άλų.     |
| #              | Work Items                                                                                                  | Unit             | The Tł | The Three Regions (SR) | ns (SR) | Inth | In the Three Regions | dons   | # of    | Prices   |
|                |                                                                                                             |                  | Ryd    | Jed                    | E.Prov  | Ryd  | Jed                  | E.Prov | Samples | (SR)     |
| 16             | Diastic weather-resistant maints                                                                            | 2<br>M           | 111    | 106                    | 112     | 6    | 6                    | S      | 17      | 19.35    |
| 2 5            | Libbury Woulder - Possiming Purity<br>With the alerand caramic tiles                                        | ц <sup>2</sup>   | 397    | 321                    | 345     | 9    | 6                    | 5      | 17      | 62.53    |
| 12             |                                                                                                             | m2               | 221    | 216                    | 249     | 6    | 6                    | 5      | 17      | 40.35    |
| 2 2            | Thermal insulation horizontal                                                                               | m2               | 188    | 226                    | 197     | 6    | 6                    | S      | 17      | 35.94    |
|                | Titerinini riveninevery reversione.<br>Thermal inculation vertical                                          | m²               | 151    | 120                    | 165     | 9    | 6                    | 5      | 17      | 25.65    |
| 3 7            | Discinction minute for interior walls (smooth American Texture)                                             | m²               | 100    | 66                     | 107     | 6    | 6                    | 5      | 17      | 18.00    |
| 3 F            | Disctic paints for interior cellinos (smooth American Texture)                                              | г <mark>е</mark> | 100    | 112                    | 107     | 9    | 6                    | 5      | 17      | 18.76    |
| 3 2            |                                                                                                             | m²               | 2395   | 2461                   | 2550    | 9    | 9                    | 5      | 17      | 435.65   |
| 3 2            |                                                                                                             | m²               | 3950   | 4509                   | 4200    | 9    | 9                    | 5      | 17      | 744.65   |
| 5 2            | Religion investigation down<br>Religions and fighting fixture (1x4 watt) with plastic cover celling mounted | No.              | 1465   | 1317                   | 1927    | 9    | 6                    | 5      | 17      | 277.00   |
| 340            | Russessent lighting fixture (2x40 watt) with reflector                                                      | No.              | 2010   | 1562                   | 2110    | 6    | 6                    | 5      | 17      | 334.24   |
| 21 5           | I ammonet for the site (4m high with 125 watt/220 volt lamb)                                                | No.              | 8820   | 9369                   | 7050    | 6    | 6                    | 5      | 17      | 1484.65  |
| ) <sup>0</sup> | Equilibrios for un one (1241) and (1241) and (1241) and (1241)                                              | No.              | 1270   | 1275                   | 1400    | 9    | 6                    | 5      | 17      | 232.06   |
| 3<br>0<br>7    |                                                                                                             | No               | 1005   | 723                    | 1180    | 9    | 6                    | 5      | 17      | 171.06   |
| ۽<br>اڏ        |                                                                                                             | °.<br>Ž          | 158000 | 264222                 | 227500  | 6    | 6                    | 5      | 17      | 38218.94 |
| 2              | Main distribution panelhoard                                                                                | No               | 183000 | 270830                 | 271300  | 6    | 6                    | 5      | 17      | 42654.71 |
| ; ;            | Thermonlastic cable (size 3x185x95 mm²)                                                                     | E                | 833    | 668                    | 820     | 9    | 6                    | 5      | 17      | 150.12   |
| * 5            |                                                                                                             | ٤                | 1192   | 1145                   | 1130    | 9    | 6                    | 5      | 17      | 203.94   |
| 5 2            |                                                                                                             | No               | 10070  | 11021                  | 9300    | 9    | 9                    | 5      | 17      | 1787.71  |
| 5 7            |                                                                                                             | No.              | 2150   | 2220                   | 2150    | 9    | 9                    | 5      | 17      | 383.53   |
| 3 2            | 26 Drinking water cooler (tank towa)                                                                        | No.              | 18500  | 13260                  | 11200   | 9    | 6                    | 5      | 17      | 2527.06  |
| 2              |                                                                                                             |                  |        |                        |         |      |                      |        |         |          |

## Table 4.69Calculation of The Average Item PricesYear 1994

| L              |                                          |                |        |                        |         | AT.   | The # of Samples     | les    | The     | The    |
|----------------|------------------------------------------|----------------|--------|------------------------|---------|-------|----------------------|--------|---------|--------|
|                |                                          |                | The S  | The Sum of Prices in   | es in   | Fro   | From Each Region     | tion   | Total   | Avg.   |
| #              | Work Items                               | Unit           | The Th | The Three Regions (SR) | ns (SR) | In th | In the Three Regions | gions  | # of    | Prices |
| :              |                                          |                | Ryd    | Jed                    | E.Prov  | Ryd   | Jed                  | E.Prov | Samples | (SR)   |
|                | Pycavation work                          | ۳E             | 153    | 50                     | 114     | 6     | 2                    | 3      | 11      | 28.82  |
| · ·            |                                          | em3            | 124    | 51                     | 67      | 9     | 2                    | 4      | 12      | 22.67  |
| 4 "            |                                          | Ē              | 258    | 86                     | 173     | 9     | 2                    | 4      | 12      | 43.08  |
| ר ר            |                                          | r.             | 1405   | 620                    | 1440    | 9     | 2                    | 4      | 12      | 288.75 |
| r   '          |                                          | Ē              | 4030   | 1370                   | 4116    | 9     | 2                    | 4      | 12      | 793.00 |
|                |                                          | 2<br>H         | 535    | 159                    | 245     | 9     | 2                    | 4      | 12      | 78.25  |
| 2              |                                          | 2<br>H         | 650    | 310                    | 279     | 9     | 2                    | 4      | 12      | 103.25 |
| ~              |                                          | m <sup>2</sup> | 230    | 119                    | 307     | 9     | 2                    | 4      | 12      | 54.67  |
| • •            | _                                        | m2             | 229    | 62                     | 142     | 9     | 2                    | 4      | 12      | 36,08  |
| ١ <sup>ء</sup> |                                          | ٣E             | 4950   | 1704                   | 4034    | 9     | 2                    | 4      | 12      | 890.67 |
| - <u>1</u> -   | 11 CMII walls with 15 cm thickness       | ы<br>В         | 260    | 85                     | 297     | 6     | 2                    | 4      | 12      | 53.50  |
| -1-            | 12 CMI walls with 20 cm thickness        | 'n             | 295    | 96                     | 288     | 9     | 2                    | 4      | 12      | 56.58  |
| <u> </u> -     | 13 [Glazed mosaic tiles (size 30x30x3cm) | 2<br>E         | 293    | 101                    | 223     | 9     | 2                    | 4      | 12      | 51.42  |
| <b>¦</b> ]₹    | 14 Floor tiling                          | ۳<br>۳         | 201    | 73                     | 219     | 6     | 2                    | 4      | 12      | 41.08  |
| ·ŀř            | 15 Natural marble of stairs              | E              | 1095   | 380                    | 622     | 6     | 2                    | 4      | 12      | 174.75 |
| : <br>         |                                          |                |        |                        |         |       |                      |        |         |        |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| - 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ્રંત્વ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| La                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Ta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Ta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |        |                        |         |       | The # of Samples     | 6      | The     | The      |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|------------------------|---------|-------|----------------------|--------|---------|----------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | The S  | The Sum of Prices in   | es in   | Fro   | From Each Region     | lon    | Total   | Avg.     |
| 7           | Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit     | The Th | The Three Regions (SR) | ns (SR) | In th | In the Three Regions | dons   | # of    | Prices   |
| =           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | Ryd    | Jed                    | E.Prov  | Ryd   | Jed                  | E.Prov | Samples | (SR)     |
| 16          | Dioctio woother resistant mainte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ۳<br>۳   | 118    | 39                     | 121     | 6     | 2                    | 4      | 16      | 17.38    |
| 2 5         | r rasse were reasoned from the second se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ē        | 425    | 129                    | 284     | 9     | 2                    | 4      | 18      | 46.56    |
| =  <b>°</b> | Wille glazed verality tites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m²       | 290    | 86                     | 154     | 9     | 2                    | 4      | 18      | 29.44    |
| 9           | Ilisulator layer tot hitosime<br>Thomas faculation horizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m²       | 255    | 64                     | 108     | 9     | 2                    | 4      | 18      | 23.72    |
| 2           | Lifetitiat Libutation, troticolum.<br>Thomai inculation vartical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ۳<br>۳   | 157    | 60                     | 89      | 9     | 2                    | 4      | 18      | 17.00    |
| 3 7         | Literinal insummur, vertical<br>Directio moints for intervier wells (smooth American Texture)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m2       | 117    | 36                     | 122     | 9     | 2                    | 4      | 18      | 15.28    |
| 1           | Flactic paints for interior railings (smooth American Texture)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ۳<br>۳   | 133    | 38                     | 124     | 9     | 2                    | 4      | 18      | 16.39    |
| 3 2         | r Jasue paints for intertor contrigs (ontoour current of a last of a last of a last of the | г<br>ш   | 2885   | 806                    | 2075    | 9     | 2                    | 4      | 18      | 320.33   |
| 32          | 2.2 Altutututut vituovas<br>2.4 Tr. I.a.u. matollio daares                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | m2       | 4950   | 2288                   | 3205    | 9     | 2                    | 4      | 18      | 580.17   |
| 5 2         | 25 III0110W IIICHIIN UVUS<br>25 Elinerssont lighting fisting (1vd watt) with plastic cover celling mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | °<br>N   | 1635   | 478                    | 1426    | 9     | 2                    | 4      | 18      | 196.61   |
|             | 22 Rinorescent tighting fixture (2x40 watt) with reflector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No       | 2052   | 571                    | 1469    | 6     | 2                    | 4      | 18      | 227.33   |
|             | 20 If the contraction and the site (4m bird) units 105 worth 200 volt famn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ÿ        | 9400   | 3352                   | 00/6    | 9     | 2                    | 4      | 18      | 1247.33  |
|             | 21 Laug-post for all site (701 figh with 120 march 100 million 100 | No       | 1785   | 454                    | 932     | 9     | 2                    | 4      | 18      | 176.17   |
| ຸ           | 20 JOWIGH, PVC: WIRDOW SPC (2002 1 111/2)<br>20 It inhting switch (15 Amns/127 volt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | °<br>Ž   | 1495   | 320                    | 683     | 6     | 2                    | 4      | 18      | 138.78   |
| 3 6         | 20 Moin switchboard school huilding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | °N<br>No | 226600 | 74896                  | 141000  | 6     | 7                    | 4      | 18      | 24583.11 |
| 3           | Main distribution ponelhoard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | °N<br>No | 277400 | 78480                  | 157000  | 6     | 2                    | 4      | 18      | 28493.33 |
| 5 6         | 21 Internetion pressored and a second and a second a se                                                                                                                                                                                                                                             | E        | 723    | 339                    | 614     | 9     | 2                    | 4      | 18      | 93,11    |
| 2           | 22 Distriction of the analyce of the state o | E        | 1113   | 442                    | 830     | 9     | 7                    | 4      | 18      | 132.50   |
| 3           | 3.3 [A I/C unit unindoute time (cool/heat 1800 RITT/h KW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | °N<br>N  | 11500  | 3804                   | 10520   | 9     | 2                    | 4      | 18      | 1434.67  |
| t X         | 34 Pro uni minume type (vooriteur toov to trijert)<br>36 Iosiling olt fan filio 140em (56in)!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | °<br>V   | 2870   | 722                    | 1670    | 9     | 2                    | 4      | 18      | 292.33   |
| 2 2         | 26 Drinking an 1944 172011 (2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | °<br>Ž   | 14900  | 4392                   | 9745    | 9     | 2                    | 4      | 18      | 1613.17  |
| R           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |        |                        |         |       |                      |        |         |          |

### Table 4.70 Calculation of The Average of Item Prices Year 1995

|          |                                                     | ľ                |        |                        |         | 1.L   | The # of Samples     |        | The     | The    |
|----------|-----------------------------------------------------|------------------|--------|------------------------|---------|-------|----------------------|--------|---------|--------|
| L        |                                                     |                  |        |                        |         |       |                      | 3      |         |        |
|          |                                                     |                  | The S  | The Sum of Prices in   | es in   | Fro   | From Each Region     | lon    | Total   | Avg.   |
| :        | Work Hems                                           | Unit             | The Th | The Three Regions (SR) | IS (SR) | In th | In the Three Regions | tons   | Jo #    | Prices |
| **       |                                                     | 1                | Rvd    | Jed                    | E.Prov  | Ryd   | Jed                  | E.Prov | Samples | (SR)   |
|          |                                                     | ſ.               | 129    | 60                     | 50      | 9     | 3                    | 2      | 8       | 29.88  |
| -        | Excavation work                                     |                  | 5      | 57                     | 40      | 6     | 9                    | 2      | œ       | 19.25  |
| 2        | Backfilling work                                    |                  | ; ¥    | 75                     | 95      | 6     | m                    | 2      | 8       | 25.75  |
| m        |                                                     |                  | 405    | 075                    | 650     | 6     | 3                    | 2      | 8       | 265.00 |
| 4        |                                                     |                  | 1830   | 2025                   | 1350    | 6     | 6                    | 2      | 8       | 650.63 |
| ŝ        |                                                     |                  | 2009   |                        | 72      | 6     |                      | 2      | 8       | 97.88  |
| 9        |                                                     |                  |        | 1166                   | 024     |       | 64                   | ~      | 8       | 353.13 |
| 5        | Building made from Calcium Silicate Bricks          | È                | 200    |                        | 2       |       |                      | 1      | ø       | 23 75  |
| · °      |                                                     | "m               | 30     | 90                     | 8       | ~     | 2                    | 7      | 0       |        |
| ~        |                                                     | m2               | 300    | 90                     | 56      | ę     | 3                    | 2      | 8       | 55.75  |
| <u> </u> | 9 Plain concrete with 10 cm thickness               | : <sup>-</sup> - | 2160   | 2790                   | 1960    | 3     | 3                    | 2      | 8       | 863.75 |
| =        | 10 Reinforced concrete for the whole superstructure | 1                | 105    | 105                    | 99      | 3     | 3                    | 2      | 8       | 45.00  |
| -        | 1  CMU walls with 15 cm thickness                   |                  | 105    | 117                    | 2       |       | 3                    | 2      | 8       | 47.75  |
| -        | 12 CMU walls with 20 cm thickness                   |                  | 135    | 114                    | 92      | "     | 6                    | 2      | 8       | 40.63  |
| -        | 13 Glazed mosaic tiles (size 30x30x3cm)             | 17               | 5 8    | - Vo                   | 2 Ş     | 3     | ~                    | 2      | 8       | 30.00  |
| i.       | 14  Floor tiling                                    |                  | 242    | 2007                   |         |       | 6                    | 2      | 8       | 190.63 |
| Ē        | 15 Natural marble of stairs                         | E                | 670    | 200                    | T ML    | ,     | ,                    |        |         |        |
| 1        |                                                     |                  |        |                        |         |       |                      |        |         |        |

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|    |                                                                 |                  |        |                        |         |          | The # of Samples     | 61     | The     | The      |
|----|-----------------------------------------------------------------|------------------|--------|------------------------|---------|----------|----------------------|--------|---------|----------|
|    |                                                                 |                  | i      |                        | 1       |          | Parts Refor          | u      | Total   | Ave.     |
|    |                                                                 |                  | The S  | The Sum of Prices In   |         | 011      | ni lauri neg         |        |         | b<br>\$  |
| :  | Work Itoms                                                      | Unit             | The Th | The Three Regions (SR) | ns (SR) | Е<br>Е   | In the Three Regions | ions   | 10 #    | Frices   |
| ₩  |                                                                 | L                | Rvd    | Jed                    | E.Prov  | Ryd      | Jed                  | E.Prov | Samples | (SR)     |
|    |                                                                 | m <sup>2</sup>   | 51     | 54                     | 36      | 3        | 3                    | 2      | 8       | 17.63    |
| 16 | Plastic weather-resistant paints                                | 1                | 105    | 180                    | 120     | <b>.</b> | 3                    | 2      | 8       | 50.63    |
| 17 | 17  White glazed ceramic tiles                                  | <sup>2</sup>     | 225    | 225                    | 8       |          | 3                    | 2      | 8       | 66.25    |
| 18 |                                                                 |                  | 150    | 150                    | 48      | 3        | 3                    | 2      | ∞       | 43.50    |
| 19 |                                                                 |                  | 120    | 120                    | 40      | 3        | 3                    | 2      | 8       | 35.00    |
| 20 | Thermal insulation, vertical                                    | 1                | 34     | 42                     | 30      | 3        | 3                    | 2      | 8       | 13.50    |
| 21 | Plastic paints for interior walls (smooth American l'exture)    | 12               | 2 8    | 40<br>CP               | 6       | 9        | e                    | 2      | 8       | 13.88    |
| 22 | Plastic paints for interior ceilings (smooth American Texture)  | 11<br>11<br>11   | 2100   | 1680                   | 1150    | 3        | 3                    | 2      | 8       | 616.25   |
| 23 |                                                                 | 1 <sup>7</sup> 1 | 2100   | 2340                   | 1560    | 3        | 3                    | 7      | ∞       | 750.00   |
| 24 | Hollow metallic doors                                           | ž                | 009    | 552                    | 378     | 3        | 3                    | 2      | ∞       | 191.25   |
| 25 |                                                                 | No.              | 810    | 600                    | 400     | 3        | 3                    | 7      | 8       | 226.25   |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector        | ŻŻ               | 2730   | 4200                   | 2840    | 3        | 3                    | 2      | 8       | 1221.25  |
| 27 | 27 Lamp-post for the site (4m high with 125 watt/220 volt lamp) | ŻŻ               | 006    | 702                    | 480     | 3        | 3                    | 2      | 8       | 260.25   |
| 28 |                                                                 | Ż                | 450    | 414                    | 290     | 3        | 3                    | 2      | 8       | 144.25   |
| 29 | Lighting switch (15 Amps/127 volt)                              | Ż                | 150000 | 199185                 | 133000  | 3        | 3                    | 12     | ∞       | 60273.13 |
| ຶ  |                                                                 | Ň                | 135000 | 182592                 | 121740  | 3        | 3                    | 2      | ∞       | 54916.50 |
| ਙ  | Main distribution panelboard                                    | E                | 240    | 393                    | 266     | 3        | 3                    | 7      | ∞       | 112.38   |
| 33 | Thermoplastic cable (size 3x185x95 mm <sup>-</sup> )            | 1                | 330    | 675                    | 454     | 3        | 3                    | 7      | ∞       | 182.38   |
| ន  | 33 Reinforced thermoplastic cable (size 30x240X120mm)           | UN<br>V          | 3900   | 8460                   | 4400    | 3        | 3                    | 2      | ∞       | 2095.00  |
| ž  |                                                                 | Ż                | 1200   | 1680                   | 1100    | £        | 3                    | 7      | ∞       | 497.50   |
| 35 | Ceiling air fan {dia 142cm (50m)}                               | v<br>Z           | 4200   | 8880                   | 5900    | 3        | 3                    | 2      | ∞       | 2372.50  |
| ž  | 36 Drinking water cooler (tank type)                            | 2                |        |                        |         |          |                      |        |         |          |

### 4.2.3 Calculation of Total Price of Each Item and the Sum of Total Prices of the Price Index:

The average of quantities for each item has been taken from the Table 4.64 and listed in Tables 4.71 - 4.76. Also, the average of prices for the year 1990 for each item has been taken from Tables 4.65 and listed in Table 4.71. This has then been repeated for the average of prices for the years 1991-1995. The average of prices for the years 1991-1995 has been taken from Tables 4.66 - 4.70 and listed in Tables 4.72 - 4.76 respectively.

# Table 4.71Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsYear 1990

|    |                                                  |                 | The Average | The Average | The Total |
|----|--------------------------------------------------|-----------------|-------------|-------------|-----------|
| ** | Work Items                                       | Unit            | of          | of the Unit | Price     |
|    |                                                  |                 | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | em <sup>3</sup> | 1804.44     | 16.93       | 30549.17  |
| 7  | Backfilling work                                 | rm <sup>3</sup> | 2271.00     | 13.67       | 31044.57  |
|    | Excavation work for the foundation               | m <sup>3</sup>  | 1881.00     | 23.89       | 44937.09  |
| 4  | Plain concrete work under the foundation         | m <sup>3</sup>  | 284.00      | 210.00      | 59640.00  |
| Ś  | Reinforced concrete work for the foundation      | ٤m              | 590.00      | 637.17      | 375930.30 |
| 9  | Natural crushed stone sub-base coarse            | m <sup>2</sup>  | 457.00      | 68.78       | 31432.46  |
| 5  | Building made from Calcium Silicate Bricks       | m²              | 703.00      | 73.50       | 51670.50  |
| ∞  | Concrete pavers (40x40x5cm)                      | m <sup>2</sup>  | 3505.00     | 53.50       | 187517.50 |
| 6  | Plain concrete with 10 cm thickness              | m <sup>2</sup>  | 1635.00     | 21.06       | 34433.10  |
| 0  | Reinforced concrete for the whole superstrucutre | m <sup>3</sup>  | 1039.00     | 686.50      | 713273.50 |
| =  | CMU walls with 15 cm thickness                   | m²              | 1691.00     | 34.56       | 58440.96  |
| 12 | CMU walls with 20 cm thickness                   | m²              | 2460.00     | 39.44       | 97022.40  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²              | 2580.00     | 53.39       | 137746.20 |
| 14 | Floor tiling                                     | m²              | 1495.00     | 33.83       | 50575.85  |
| 15 | Natural marble of stairs                         | u               | 196.00      | 154.94      | 30368.24  |
|    |                                                  |                 |             |             | Continued |

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|    |                                                                              |                | The Average                                            | The Average           | The Total    |
|----|------------------------------------------------------------------------------|----------------|--------------------------------------------------------|-----------------------|--------------|
| #  | Work Items                                                                   | Unit           | of                                                     | of the Unit           | Price        |
|    |                                                                              |                | Quantities                                             | Price (SR)            | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m <sup>2</sup> | 6543.00                                                | 40.93                 | 267804.99    |
| 1  | White glazed ceramic tiles                                                   | m <sup>2</sup> | 906.00                                                 | 62.06                 | 56226.36     |
| 8  | Insulator layer for moisture                                                 | m <sup>2</sup> | 1845.00                                                | 31.56                 | 58228.20     |
| 61 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 1476.00                                                | 28.67                 | 42316.92     |
| 2  | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                                                | 23.39                 | 36254.50     |
| 51 | Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 2280.00                                                | 30.72                 | 70041.60     |
| 52 | Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 1670.00                                                | 31.61                 | 52788.70     |
| 23 | Aluminum windows                                                             | m²             | 349.00                                                 | 439.00                | 153211.00    |
| 54 | Hollow metallic doors                                                        | m²             | 170.00                                                 | 480.06                | 81610.20     |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 102.00                                                 | 248.39                | 25335.78     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                                                 | 293,56                | 85425.96     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 31.00                                                  | 1335.11               | 41388.41     |
| 28 | Switch, A/C. window type (2x30 Amps)                                         | No.            | 82.00                                                  | 234.39                | 19219.98     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 140.00                                                 | 146.44                | 20501.60     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                                                   | 20814.83              | 20814.83     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                                                   | 17259.28              | 17259.28     |
| 32 | Thermoplastic cable (size 3x185x95 mm²)                                      | E              | 264.00                                                 | 142.89                | 37722.96     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | E              | 342.00                                                 | 206.89                | 70756.38     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                                                  | 1715.44               | 140666.08    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 80.00                                                  | 332.61                | 26608.80     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                                                  | 2539.17               | 25391.70     |
|    |                                                                              |                | The Sum of The Total Prices<br>of The Index Items (SR) | otal Prices<br>s (SR) | 3,284,156.07 |
|    |                                                                              |                |                                                        |                       |              |

# Table 4.72 Calculation of the Total Price for Each Item And Sum of the Total Price of Index Items Year 1991

|    |                                                  |                 | The Average | The Average | The Total |
|----|--------------------------------------------------|-----------------|-------------|-------------|-----------|
| #  | Work Items                                       | Unit            | of          | of the Unit | Price     |
|    |                                                  |                 | Quantities  | Price (SR)  | (SR)      |
| -  | Excavation work                                  | em <sup>3</sup> | 1804.44     | 14,81       | 26723.76  |
| 7  | Backfilling work                                 | em3             | 2271.00     | 16.20       | 36790.20  |
| 6  | Excavation work for the foundation               | m <sup>3</sup>  | 1881.00     | 39.61       | 74506.41  |
| 4  | Plain concrete work under the foundation         | m <sup>3</sup>  | 284.00      | 234.33      | 66549.72  |
| S  | Reinforced concrete work for the foundation      | em <sup>3</sup> | 590.00      | 634.44      | 374319.60 |
| 9  | Natural crushed stone sub-base coarse            | m <sup>2</sup>  | 457.00      | 52.78       | 24120.46  |
| 5  | Building made from Calcium Silicate Bricks       | m²              | 703.00      | 86.00       | 60458.00  |
| ∞  | Concrete pavers (40x40x5cm)                      | m <sup>2</sup>  | 3505.00     | 52.28       | 183241.40 |
| 6  | Plain concrete with 10 cm thickness              | m <sup>2</sup>  | 1635.00     | 18.50       | 30247.50  |
| 0  | Reinforced concrete for the whole superstructure | m <sup>3</sup>  | 1039.00     | 687.22      | 714021.58 |
| =  | CMU walls with 15 cm thickness                   | m²              | 1691.00     | 36.28       | 61349.48  |
| 12 | CMU walls with 20 cm thickness                   | m²              | 2460.00     | 40.17       | 98818.20  |
| 13 | Glazed mosaic tiles (size 30x30x3cm)             | m²              | 2580.00     | 48.11       | 124123.80 |
| 14 | Floor tiling                                     | m <sup>2</sup>  | 1495.00     | 31.78       | 47511.10  |
| 15 | Natural marble of stairs                         | E               | 196.00      | 171.78      | 33668.88  |
|    |                                                  |                 |             |             | Continued |

|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| *  | Work Items                                                                   | Unit           | of                          | of the Unit | Price        |
|    |                                                                              |                | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m²             | 6543.00                     | 38.38       | 251120.34    |
| 21 | White glazed ceramic tiles                                                   | m²             | 906.00                      | 63.67       | 57685.02     |
| 18 | Insulator layer for moisture                                                 | m²             | 1845.00                     | 28.67       | 52896.15     |
| 61 | Thermal insulation, horizontal                                               | m²             | 1476.00                     | 23.44       | 34597.44     |
| 50 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                     | 18.28       | 28334.00     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m <sup>2</sup> | 2280.00                     | 30.67       | 69927,60     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                     | 30.17       | 50383.90     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 349.00                      | 382.17      | 133377.33    |
| 24 | Hollow metallic doors                                                        | m <sup>2</sup> | 170.00                      | 431.67      | 73383,90     |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 102.00                      | 278.94      | 28451.88     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 333.61      | 97080.51     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 31.00                       | 1008.06     | 31249.86     |
| 28 | Switch. A/C. window type (2x30 Amps)                                         | No.            | 82.00                       | 253.33      | 20773.06     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 140.00                      | 168.89      | 23644.60     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                        | 31388.89    | 31388,89     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 35180.56    | 35180.56     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | m              | 264.00                      | 155.72      | 41110.08     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | ٤              | 342.00                      | 198.00      | 67716.00     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                       | 1626.94     | 133409.08    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 80.00                       | 342.83      | 27426.40     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2295.44     | 22954.40     |
|    |                                                                              |                | The Sum of The Total Prices | otal Prices |              |
|    |                                                                              |                | of The Index Items (SR)     | s (SR)      | 3,268,541.09 |

**Table 4.72 continued** 

# Table 4.73Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsYear 1992

|             |                                                  |        |             |             | 1         |
|-------------|--------------------------------------------------|--------|-------------|-------------|-----------|
|             |                                                  |        | The Average | The Average | Ine lotal |
| 7           | Work Items                                       | Unit   | of          | of the Unit | Price     |
|             |                                                  |        | Quantities  | Price (SR)  | (SR)      |
| -           | Excention work                                   | ۳      | 1804,44     | 22.60       | 40780.34  |
| • •         | Backfilling work                                 | Em3    | 2271.00     | 13.59       | 30862.89  |
| 4 ~         | Excavation work for the foundation               | ۳<br>۳ | 1881.00     | 24.06       | 45256.86  |
| 2 P         | Plain concrete work under the foundation         | г<br>ш | 284.00      | 240.18      | 68211.12  |
| ·   ~       | Reinforced concrete work for the foundation      | е<br>Ш | 590.00      | 670.59      | 395648.10 |
| . v         | Natural crushed stone sub-base coarse            | m²     | 457.00      | 47.06       | 21506.42  |
| ) r         | Building made from Calcium Silicate Bricks       | m²     | 703.00      | 94.80       | 66644,40  |
| ~           | Concrete navers (40x40x5cm)                      | m²     | 3505.00     | 48.94       | 171534.70 |
| 0           | Plain concrete with 10 cm thickness              | m²     | 1635.00     | 22.71       | 37130.85  |
| ļ           | Reinforced concrete for the whole superstrucutre | °m     | 1039.00     | 705.24      | 732744.36 |
| =           | ICMU walls with 15 cm thickness                  | m²     | 1691.00     | 44.65       | 75503.15  |
| : 2         | CMU walls with 20 cm thickness                   | m²     | 2460.00     | 48.41       | 119088.60 |
| :  <u>-</u> | [Glazed mosaic tiles (size 30x30x3cm)            | m²     | 2580.00     | 51.06       | 131734.80 |
| 14          | Floor filing                                     | m²     | 1495.00     | 30.94       | 46255.30  |
| : ¥         | 15 Natural marble of stairs                      | ٤      | 195.00      | 160.76      | 31508,96  |
|             |                                                  |        |             |             | Continued |

|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| #  | Work Items                                                                   | Unit           | of                          | of the Unit | Price        |
|    |                                                                              | ÷              | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant paints                                             | n2             | 6543.00                     | 18.00       | 117774.00    |
| 12 | White glazed ceramic tiles                                                   | m²             | 90900                       | 58.78       | 53254.68     |
| 18 | Insulator layer for moisture                                                 | m²             | 1845.00                     | 41.78       | 77084.10     |
| 19 | Thermal insulation, horizontal                                               | m²             | 1476.00                     | 24.39       | 35999.64     |
| 20 | Thermal insulation, vertical                                                 | m²             | 1550.00                     | 24.00       | 37200.00     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                     | 15.00       | 34200.00     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 1670.00                     | 15.06       | 25150,20     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 349.00                      | 379.44      | 132424.56    |
| 24 | Hollow metallic doors                                                        | m²             | 170.00                      | 675.00      | 114750.00    |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 102.00                      | 229.39      | 23397.78     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 272.28      | 79233.48     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 31.00                       | 1511.11     | 46844.41     |
| 28 | Switch. A/C, window type (2x30 Amps)                                         | No.            | 82.00                       | 213.33      | 17493.06     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 140.00                      | 122.44      | 17141.60     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                        | 16694.44    | 16694.44     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 18513.89    | 18513.89     |
| 32 | Thermoplastic cable (size 3x185x95 mm <sup>2</sup> )                         | m              | 264.00                      | 116.11      | 30653.04     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | m              | 342.00                      | 170.22      | 58215.24     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                       | 1414.17     | 115961.94    |
| 35 | [Ceiling air fan {dia 142cm (56in)}                                          | No.            | 80.00                       | 421.56      | 33724.80     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2359.72     | 23597.20     |
|    |                                                                              |                | The Sum of The Total Prices | otal Prices |              |
|    |                                                                              |                | of The Index Items (SR)     | s (SR)      | 3,123,718.91 |

Table 4.73 continued

# Table 4.74Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsYear 1993

|          |                                                  |                | The Average | The Average | The Total |
|----------|--------------------------------------------------|----------------|-------------|-------------|-----------|
| #        | Work Items                                       | Unit           | of          | of the Unit | Price     |
| 2        |                                                  |                | Quantities  | Price (SR)  | (SR)      |
| -        | PExcavation work                                 | m <sup>3</sup> | 1804.44     | 23.79       | 42927.63  |
|          | Backfilling work                                 | °n             | 2271.00     | 21.82       | 49553.22  |
| 1        | Excavation work for the foundation               | m <sup>3</sup> | 1881.00     | 33.59       | 63182.79  |
| , 4      | Plain concrete work under the foundation         | en.            | 284.00      | 263.35      | 74791.40  |
| ار       | Reinforced concrete work for the foundation      | m3             | 590.00      | 747.82      | 441213.80 |
| <u>ی</u> | Natural crushed stone sub-base coarse            | m²             | 457.00      | 67.00       | 30619.00  |
| 2        | Building made from Calcium Silicate Bricks       | m²             | 703.00      | 127.24      | 89449.72  |
| ~        | Concrete navers (40x40x5cm)                      | m²             | 3505.00     | 51.24       | 179596.20 |
| 0        | Plain concrete with 10 cm thickness              | m²             | 1635.00     | 23.06       | 37703.10  |
| 9        | Reinforced concrete for the whole superstrucutre | m <sup>3</sup> | 1039.00     | 865.06      | 898797.34 |
| =        | CMU walls with 15 cm thickness                   | m²             | 1691.00     | 38.65       | 65357.15  |
| 12       | CMU walls with 20 cm thickness                   | m²             | 2460.00     | 43.35       | 106641.00 |
| 1        | (Glazed mosaic tiles (size 30x30x3cm)            | m²             | 2580.00     | 48.12       | 124149.60 |
| 14       | Floor tiling                                     | m²             | 1495.00     | 33.65       | 50306.75  |
| 1        |                                                  | E              | 196.00      | 154.94      | 30368,24  |
|          |                                                  |                |             |             | Continued |

|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| *  | Work Items                                                                   | Unit           | 0f                          | of the Unit | Price        |
| :  |                                                                              |                | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant vaints                                             | m²             | 6543.00                     | 19.35       | 126607.05    |
| 17 | White glazed ceramic tiles                                                   | m <sup>2</sup> | 906.00                      | 62.53       | 56652.18     |
| 18 | Insulator layer for moisture                                                 | m <sup>2</sup> | 1845.00                     | 40.35       | 74445.75     |
| 61 | Thermal insulation, horizontal                                               | m <sup>2</sup> | 1476.00                     | 35.94       | 53047.44     |
| 20 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                     | 25.65       | 39757.50     |
| 21 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                     | 18.00       | 41040.00     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m²             | 1670.00                     | 18.76       | 31329.20     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 349.00                      | 435.65      | 152041.85    |
| 24 | Hollow metallic doors                                                        | m <sup>2</sup> | 170.00                      | 744.65      | 126590.50    |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 102.00                      | 277.00      | 28254.00     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 334.24      | 97263.84     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 31.00                       | 1484.65     | 46024.15     |
| 28 | Switch, A/C, window type (2x30 Amps)                                         | No.            | 82.00                       | 232.06      | 19028.92     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 140.00                      | 171.06      | 23948.40     |
| õ  | Main switchboard, school building                                            | No.            | 1.00                        | 38218.94    | 38218.94     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 42654.71    | 42654.71     |
| 32 | Thermoplastic cable (size $3x185x95 \text{ mm}^2$ )                          | u              | 264.00                      | 150.12      | 39631.68     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | u              | 342.00                      | 203.94      | 69747.48     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h,KW)                              | No.            | 82.00                       | 1787.71     | 146592.22    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 80.00                       | 383.53      | 30682.40     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 2527.06     | 25270.60     |
|    |                                                                              |                | The Sum of The Total Prices | otal Prices |              |
|    |                                                                              |                | of The Index Items (SR)     | s (SR)      | 3,593,485.75 |

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| Table   |

# Table 4.75Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsYear 1994

|             |                                                  |                  | The Average | The Average | The Total |
|-------------|--------------------------------------------------|------------------|-------------|-------------|-----------|
| 72          | Work Items                                       | Unit             | of          | of the Unit | Price     |
|             |                                                  |                  | Quantities  | Price (SR)  | (SR)      |
| -           | Rycavation work                                  | ГШ               | 1804.44     | 28.82       | 52003.96  |
| ·   ~       | Backfillino work                                 | ĥ                | 2271.00     | 22.67       | 51483.57  |
| 4 ("        | Reconstitution work for the foundation           | r <sub>e</sub>   | 1881.00     | 43.08       | 81033.48  |
| ~<br>_      | Dain concrete work under the foundation          | ٣E               | 284.00      | 288.75      | 82005.00  |
| · / ·       | Reinforced concrete work for the foundation      | Ê                | 590.00      | 793.00      | 467870.00 |
| 2           | Natural crushed stone sub-base coarse            | ۲<br>۳           | 457.00      | 78.25       | 35760.25  |
| r           | Building made from Calcium Silicate Bricks       | m²               | 703.00      | 103.25      | 72584.75  |
| · 🛛         |                                                  | ۲ <mark>۳</mark> | 3505.00     | 54.67       | 191618.35 |
| 0           | Plain concrete with 10 cm thickness              | m²               | 1635.00     | 36.08       | 58990.80  |
| <u>ا</u>    | Reinforced concrete for the whole superstructure | ۳<br>۳           | 1039.00     | 890.67      | 925406.13 |
| =           |                                                  | m²               | 1691.00     | 53.50       | 90468.50  |
| 12          | CMU walls with 20 cm thickness                   | m²               | 2460.00     | 56.58       | 139186.80 |
| 2           | Glazed mosaic tiles (size 30x30x3cm)             | m²               | 2580.00     | 51.42       | 132663.60 |
| 1           | Floor filing                                     | n2               | 1495.00     | 41.08       | 61414.60  |
| :  <u>~</u> | Natural marble of stairs                         | E                | 196.00      | 174.75      | 34251.00  |
|             |                                                  |                  |             |             | Continued |

|    |                                                                              |                | The Average                 | The Average | The Total    |
|----|------------------------------------------------------------------------------|----------------|-----------------------------|-------------|--------------|
| *  | Work Items                                                                   | Unit           | of                          | of the Unit | Price        |
|    |                                                                              |                | Quantities                  | Price (SR)  | (SR)         |
| 16 | Plastic weather-resistant paints                                             | m <sup>2</sup> | 6543.00                     | 17.38       | 113717.34    |
| 17 | White glazed ceramic tiles                                                   | m <sup>2</sup> | 906.00                      | 46.56       | 42183.36     |
| 18 | Insulator layer for moisture                                                 | m²             | 1845.00                     | 29.44       | 54316.80     |
| 19 | (Thermal insulation, horizontal                                              | m <sup>2</sup> | 1476.00                     | 23.72       | 35010.72     |
| 20 | Thermal insulation, vertical                                                 | m <sup>2</sup> | 1550.00                     | 17.00       | 26350.00     |
| 51 | Plastic paints for interior walls (smooth American Texture)                  | m²             | 2280.00                     | 15.28       | 34838.40     |
| 22 | Plastic paints for interior ceilings (smooth American Texture)               | m <sup>2</sup> | 1670.00                     | 16.39       | 27371.30     |
| 23 | Aluminum windows                                                             | m <sup>2</sup> | 349.00                      | 320.33      | 111795.17    |
| 24 | Hollow metallic doors                                                        | m²             | 170.00                      | 580.17      | 98628.90     |
| 25 | Fluorescent lighting fixture, (1x4 watt), with plastic cover ceiling mounted | No.            | 102.00                      | 196.61      | 20054.22     |
| 26 | Fluorescent lighting fixture, (2x40 watt) with reflector                     | No.            | 291.00                      | 227.33      | 66153.03     |
| 27 | Lamp-post for the site (4m high with 125 watt/220 volt lamp)                 | No.            | 31.00                       | 1247.33     | 38667.23     |
| 28 | Switch, A/C, window type (2x30 Amps)                                         | No.            | 82.00                       | 176.17      | 14445.94     |
| 29 | Lighting switch (15 Amps/127 volt)                                           | No.            | 140.00                      | 138.78      | 19429.20     |
| 30 | Main switchboard, school building                                            | No.            | 1.00                        | 24583.11    | 24583.11     |
| 31 | Main distribution panelboard                                                 | No.            | 1.00                        | 28493.33    | 28493.33     |
| 32 | Thermoplastic cable (size 3x185x95 mm²)                                      | Ħ              | 264.00                      | 93.11       | 24581.04     |
| 33 | Reinforced thermoplastic cable (size 30x240x120mm <sup>2</sup> )             | Ħ              | 342.00                      | 132.50      | 45315.00     |
| 34 | A/C unit windows type (cool/heat 1800 BUT/h, KW)                             | No.            | 82.00                       | 1434.67     | 117642.94    |
| 35 | Ceiling air fan {dia 142cm (56in)}                                           | No.            | 80.00                       | 292.33      | 23386.40     |
| 36 | Drinking water cooler (tank type)                                            | No.            | 10.00                       | 1613.17     | 16131.70     |
|    |                                                                              |                | The Sum of The Total Prices | otal Prices |              |
|    |                                                                              |                | of The Index Items (SR)     | s (SR)      | 3,459,835.92 |

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**Table 4.75 continued** 

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# Table 4.76Calculation of the Total Price for Each ItemAnd Sum of the Total Price of Index ItemsYear 1995

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|             |                                                       | ŀ                |             |              | The Tatal |
|-------------|-------------------------------------------------------|------------------|-------------|--------------|-----------|
|             |                                                       | _                | The Average | I ne Average | The Journ |
| 7           | Work Items                                            | Unit             | of          | of the Unit  | Price     |
| <b>b</b>    |                                                       |                  | Quantities  | Price (SR)   | (SR)      |
| -           | Rycaustion work                                       | Ē                | 1804.44     | 29.88        | 53916.67  |
| -   -       | Packfilling work                                      | Ē                | 2271.00     | 19.25        | 43716.75  |
| 4 "         | Recounting work<br>Recovering work for the foundation | Ē                | 1881.00     | 25.75        | 48435.75  |
|             | Plain concrete work under the foundation              | ٦E               | 284.00      | 265.00       | 75260.00  |
| ~           | Reinforced concrete work for the foundation           | Ē                | 590.00      | 650.63       | 383871.70 |
|             | Natural crushed stone sub-base coarse                 | ۲<br>۳           | 457.00      | 97.88        | 44731.16  |
| ~           | Ruitding made from Calcium Silicate Bricks            | ۲ <mark>۳</mark> | 703.00      | 353.13       | 248250.39 |
| ~           |                                                       | ۳<br>۳           | 3505.00     | 23.75        | 83243.75  |
|             | Dlain concrete with 10 cm thickness                   | n²               | 1635.00     | 55.75        | 91151.25  |
| ļ           | Reinforced concrete for the whole superstructure      | re               | 1039.00     | 863.75       | 897436.25 |
| : =         | CMII walls with 15 cm thickness                       | m²               | 1691.00     | 45.00        | 76095.00  |
| : 2         | CMTI walls with 30 cm thickness                       | 2<br>E           | 2460.00     | 47.75        | 117465.00 |
|             | Cated mocaic tiles (size 30x30x3cm)                   | m²               | 2580.00     | 40.63        | 104825.40 |
|             |                                                       | ٦                | 1495.00     | 30.00        | 44850.00  |
| :  <u>°</u> |                                                       | ٤                | 196.00      | 190.63       | 37363.48  |
|             |                                                       |                  |             |              | Continued |

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|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | The Average                 | The Average         | The Total    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|---------------------|--------------|
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | THE WAR ABA                 |                     |              |
| Ħ           | Work Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit           | of                          | of the Unit         | Price        |
| =           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ٠              | Quantities                  | Price (SR)          | (SR)         |
| 1           | Diortio worther resistant nainte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | m²             | 6543.00                     | 17.63               | 115353.09    |
| 2           | Flaste Weaturet-teststatt patities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | гщ<br>Ш        | 906.00                      | 50.63               | 45870.78     |
|             | Willie glazed extainty tites<br>Troubleter for moisting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <sup>2</sup> ط | 1845.00                     | 66.25               | 122231.25    |
|             | Ilisulator layer for incusation<br>Theorem i incustion therizontal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | m <sup>2</sup> | 1476.00                     | 43.50               | 64206.00     |
|             | Thermal insulation vertical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ĩ              | 1550.00                     | 35,00               | 54250.00     |
| 3 2         | Discritication and the second second of the second se                                                                                                                                                                                                                                             | m2             | 2280.00                     | 13.50               | 30780.00     |
| 15          | Doution mints for interior cellings (smooth American Texture)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m²             | 1670.00                     | 13,88               | 23179.60     |
| 77          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | т <sup>7</sup> | 349.00                      | 616.25              | 215071.25    |
| 3           | Alululuu vuudows<br>trallou matallio doore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ۲<br>۳         | 170.00                      | 750.00              | 127500.00    |
| 3 4         | TOUROW ILCOMING WOUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | °2             | 102.00                      | 191.25              | 19507.50     |
| 3 2         | Duracessant lighting fixture /9x40 wath with reflector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | °,             | 291.00                      | 226.25              | 65838.75     |
| 2           | r numescent righting trans, (zero mur), mer control and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | °2             | 31.00                       | 1221.25             | 37858.75     |
| 200         | Laughthe Alf which the site (1941) Annes and the management of the second state of the | °.<br>Vo       | 82.00                       | 260.25              | 21340.50     |
|             | DWIGH, PVC: WILLOW YPV (EASY TIMPS)<br>T tabting switch (15 Amns/197 volt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | °2             | 140.00                      | 144.25              | 20195.00     |
| 67 C        | Digning switch (12 runpe ter 200)<br>Main switch board school building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No             | 1.00                        | 60273.13            | 60273.13     |
|             | Main Switchtowey, where currents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.            | 1.00                        | 54916.50            | 54916.50     |
| 5           | Thermonlocity called a 3x185x95 mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | E              | 264.00                      | 112.38              | 29668.32     |
| 12          | DeinGrood thermonlastic cable (size 30x240x120mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E              | 342.00                      | 182.38              | 62373.96     |
| <u> </u>    | A IC unit mindous time (cool/heat 1800 RIT/h KW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | vo<br>V        | 82.00                       | 2095.00             | 171790.00    |
| н<br>И<br>И | AVC with Withdows type (voor new troe act artigram)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ő              | 80.00                       | 497.50              | 39800,00     |
| 2           | Counting and the state (source)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | , oN           | 10.00                       | 2372.50             | 23725.00     |
| 8           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | The Sum of The Total Prices | <b>Cotal Prices</b> |              |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | of The Index Items (SR)     | 15 (SR)             | 3,756,341.93 |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                             |                     |              |

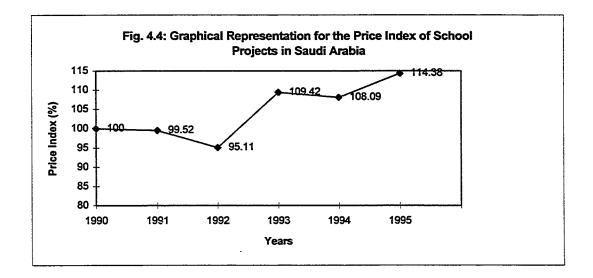
**Table 4.76 continued** 

### 4.2.4 Calculation of SPPI:

The total price for each item in the index has been calculated by multiplying the average of quantities by the average of prices for each item in Tables 4.71 - 4.76. Then, the sum of the total prices of the index has been calculated and listed at the end of Tables 4.71-4 76. The sum of total prices has been taken from Tables 4.71 - 4.76 for the years 1990-1995 respectively and listed in Table 4.77. The SPPI has been calculated using the Laspeyres method and its values have been listed in Table 4.77 for the years 1990-1995. Also, the SPPI has been represented in figure 4.4.

| Table 4.77         |       |           |      |      |
|--------------------|-------|-----------|------|------|
| Calculation of the | Price | Index for | Each | Year |

| # | Year | Sum of the Total<br>Prices of<br>Index Items (SR) | Price Index<br>(%) |
|---|------|---------------------------------------------------|--------------------|
| 1 | 1990 | 3,284,156.07                                      | 100.00             |
| 2 | 1991 | 3,268,541.09                                      | 99.52              |
| 3 | 1992 | 3,123,718.91                                      | 95.11              |
| 4 | 1993 | 3,593,483.75                                      | 109.42             |
| 5 | 1994 | 3,549,835.92                                      | 108.09             |
| 6 | 1995 | 3,756,341.93                                      | 114.38             |



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#### 4.3 VALIDATION

This section is divided into two sub-sections namely: the calculation of the average of total project prices and comparison between the indexes values and the total project prices.

#### 4.3.1 Calculation of the Average of Total Project Prices:

Several prices of constructed school projects were collected randomly from the MOE for the years of 1990 and 1993 from the three educational areas. These two years have been chosen because they are only the two years which there were more projects in them other than projects used for the index development. The total project prices are shown in Table 4.78 for the year 1990 from the Riyadh area. The sum of total prices has been calculated. Also, the average of total prices has been calculated. This calculation procedure has been done for Jeddah and Eastern Province areas in Tables 4.79 and 4.80 respectively. Moreover, this calculation procedure has been repeated for the year 1993 from the Riyadh, Jeddah and Eastern Province areas in Tables 4.81, 4.82 and 4.83 respectively. Due to the shortage of data for the Eastern Province in 1993, total project prices are the same prices for some projects that have been used for the index development.

The sum of total prices and the number of projects in the sample have been taken from Tables 4.78, 4.79 and 4.80 for the year 1990 and inserted in Table 4.84. Then, the average of the total project prices has been found. Also, this procedure has been repeated for the year 1993 in Table 4.85.

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## Table 4.78Calculation of the Average of Total Project PricesEducational Area: RiyadhYear 1990

| Project Code Number                         | Total Project Price (SR) |
|---------------------------------------------|--------------------------|
| 90/1/7                                      | 4,547,316.84             |
| 90/1/8                                      | 4,287,277.01             |
| 90/1/9                                      | 4,018,297.50             |
| The Sum of Total<br>Project Prices (SR)     | 12,852,891.35            |
| The Average of Total<br>Project Prices (SR) | 4,284,297.12             |

## Table 4.79Calculation of the Average of Total Project PricesEducational Area: JeddahYear 1990

| Project Code Number                         | Total Project Price (SR) |
|---------------------------------------------|--------------------------|
| 90/2/7                                      | 4,625,700.00             |
| 90/2/8                                      | 4,236,804.00             |
| 90/2/9                                      | 4,031,535.00             |
| The Sum of Total<br>Project Prices (SR)     | 12,894,039.00            |
| The Average of Total<br>Project Prices (SR) | 4,298,013.00             |

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# Table 4.80Calculation of the Average of Total Project PricesEducational Area: Eastern ProvinceYear 1990

| Project Code Number                         | Total Project Price (SR) |
|---------------------------------------------|--------------------------|
| 90/3/7                                      | 5,445,973.44             |
| 90/3/8                                      | 4,544,461.28             |
| 90/3/9                                      | 4,288,067.00             |
| The Sum of Total<br>Project Prices (SR)     | 14,278,501.72            |
| The Average of Total<br>Project Prices (SR) | 4,759,500.57             |

# Table 4.81Calculation of the Average of Total Project PricesEducational Area: RiyadhYear 1993

| Project Code Number                         | Total Project Price (SR) |
|---------------------------------------------|--------------------------|
| 93/1/8                                      | 4,795,262.01             |
| 93/1/9                                      | 3,999,844.53             |
| 93/1/12                                     | 4,244,184.00             |
| The Sum of Total<br>Project Prices (SR)     | 13,039,290.54            |
| The Average of Total<br>Project Prices (SR) | 4,346,430.18             |

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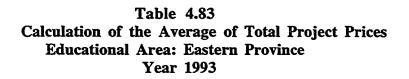
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## Table 4.82Calculation of the Average of Total Project PricesEducational Area: JeddahYear 1993

| Project Code Number                         | Total Project Price (SR) |
|---------------------------------------------|--------------------------|
| 93/2/10                                     | 4,036,257.00             |
| The Sum of Total<br>Project Prices (SR)     | 4,036,257.00             |
| The Average of Total<br>Project Prices (SR) | 4,036,257.00             |



| Project Code Number                         | Total Project Price (SR) |  |
|---------------------------------------------|--------------------------|--|
| 93/3/1                                      | 7,337,905.00             |  |
| 93/3/2                                      | 7,377,704.60             |  |
| The Sum of Total<br>Project Prices (SR)     | 14,715,609.60            |  |
| The Average of Total<br>Project Prices (SR) | 7,357,804.80             |  |

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| Educational Area                               | The Sum of Total Project<br>Prices (SR) | Number of Projects<br>in the Sample |
|------------------------------------------------|-----------------------------------------|-------------------------------------|
| Riyadh                                         | 12,852,891.35                           | 3                                   |
| Jeddah                                         | 12,894,039.00                           | 3                                   |
| Eastern Province                               | 14,278,501.72                           | 3                                   |
| Total:                                         | 40,025,432.07                           | 9                                   |
| The Average of<br>Total Project<br>Prices (SR) | 4,447,270.23                            |                                     |

Table 4.84Calculation of the Average of Total Project PricesYear 1990

### Table 4.85Calculation of the Average of Total Project PricesYear 1993

| Educational Area                               | The Sum of Total Project<br>Prices (SR) | Number of Projects<br>in the Sample |
|------------------------------------------------|-----------------------------------------|-------------------------------------|
| Riyadh                                         | 13,039,290.54                           | 3                                   |
| Jeddah                                         | 4,036,257.00                            | 1                                   |
| Eastern Province                               | 14,715,609.60                           | 2                                   |
| Total:                                         | 31,791,157.14                           | 6                                   |
| The Average of<br>Total Project<br>Prices (SR) | 5,298,526.19                            |                                     |

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### 4.3.2 Comparison Between Indexes Values and the Total Project Prices:

For the purpose of comparison, the average price of school building (say 1993 in Riyadh area) has been compared to the average of school building (say 1990) multiplied by the index number of the year 1993.

\* For Riyadh Area: the average price building in 1990 Let X 90 = the average price building in 1993 X 93 = index value for 1993 I 93 = Therefore,  $X_{90} =$ 4,284,297.12 SR  $X_{93} =$ 4,346,430.18 SR I 93 = 103.68 Compare  $X_{93} = 4,346,430.18$  SR to  $X_{90} * I =$ 4,284,297.12 \* 1.0369 = 4,442,387.68 SR =

The same procedure has been repeated for the other areas and the whole country and the values are listed in Table 4.86

| Educational<br>Area | Actual Prices<br>in 1990<br>(SR) | Price Index<br>in 1993<br>(%) | Predicted<br>Prices<br>for 1993<br>(SR) | Actual Prices<br>for Year<br>1993<br>(SR) | Difference<br>Between<br>Predicted and<br>Actual Prices<br>(%) |
|---------------------|----------------------------------|-------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------------------------------------|
| Riyadh              | 4,284,297.12                     | 103.69                        | 4,442,387.68                            | 4.346,430.18                              | 2.21                                                           |
| Jeddah              | 4,298,013.00                     | 95.47                         | 4,103,313.01                            | 4,036,257.00                              | 1.66                                                           |
| Eastern<br>Province | 4,759,500.57                     | 139.10                        | 6,620,465.29                            | 7,357,204.80                              | 10.02                                                          |
| Saudi Arabia        | 4,447,270.23                     | 109.42                        | 4,866,203.09                            | 5,298,526.19                              | 8.16                                                           |

### Table 4.86: Comparison Between the Indexes Values and theValidation Prices

The percentage differences between the actual prices for the year 1993 and the predicted prices for the year 1993 are 2.20% in Riyadh, 1.61% in Jeddah, 7.69% in Eastern Province and 9.56% in Saudi Arabia. These small differences provide evidence that the indexes are valid.

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#### CHAPTER 5

#### **CONCLUSION AND RECOMMENDATIONS**

#### 5.1 CONCLUSION:

The MOE builds many school buildings every year to meet the increasing number of students in different regions of the country. A price index for these buildings is needed to show the movement of their price over time. The SPPI can be part of a generalized cost index for construction in Saudi Arabia. Also, it can be utilized to meet MOE needs such as project budgeting, adjusting contract prices, general forecasting etc.

This study was limited to school projects which are built for the MOE in Saudi Arabia. Elementary, intermediate and secondary school projects were considered in this study. The geographic coverage was limited to the main educational areas in Saudi Arabia, namely: Riyadh, Jeddah, and Eastern Province. Data was collected from the MOE in Riyadh for 114 school projects selected randomly.

In this research, there are 36 items that have been selected from the common models as being representative in cost and regularly used. The item weights have been considered as the average of the base year quantities in the three areas. The year 1990 has been taken as the base year for the the RSPPI and SPPI. The Laspeyres method has been used to

calculate the RSPPI and the SPPI. The quantities and prices of 36 items of RSPPI and the SPPI were extracted from the BOQ's of the 114 projects. This data has then been used to develop the RSPPI and the SPPI. The values of the RSPPI and SPPI are listed in Tables 4.40, 4.41, 4.42 and 4.77, they are represented by graphs in figures 4.1, 4.2, 4.3 and 4.4. Table 4.86 shows the differences between the actual prices for the year 1993 and predicted prices for the year 1993 in the three areas and the whole country.

#### 5.2 RECOMMENDATIONS FOR FUTURE STUDIES:

- Similar studies to this research can be done to develop indexes for other types of construction projects such as highways and roads, residential buildings, offices buildings, hospitals, mosques, industrial buildings etc.
- 2. Also, this study can be used to develop general indexes for the construction industry in the Kingdom.

# APPENDICES

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# **APPENDIX - A**

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Appendix A :

• قائمة بجميع عناصر النماذج الشائمة لشاريع المدارس في المملكة العربية السعودية .

 $\star$  A list of all items found in th ${f \circ}$  common models of the school projects in Saudi Arabia .

|            |           | الرقع       |         |                                      |                       | 7         | 3                  | 4                  | S                           | 6                           | 7                        | 8                              | 6                      | 10                           | Ξ                | 12               | 13                               |
|------------|-----------|-------------|---------|--------------------------------------|-----------------------|-----------|--------------------|--------------------|-----------------------------|-----------------------------|--------------------------|--------------------------------|------------------------|------------------------------|------------------|------------------|----------------------------------|
|            | رقم البند | بمواصفات    | الأعدال |                                      | 2/1                   | 3/1       | 1/2                | 2/2                | 3/2                         | 4/2                         | 5/2                      | 2/3                            | 5/3                    | 1/3                          | 6/3              | 3/4              | 5/4                              |
|            |           | يان الأعمال |         |                                      | اعمال حفر أر قطع تربة | اعمال ردم | اعمال حفر للاساسات | اعمال عرسانة عادية | اعمال غرسانة مسلحة للأساسات | دكة بلوكاج من كسر حجر طبيعي | طبقة عازلة للرطوبة أفقية | مباني من الطوب الاسمنتي المصمت | اعمال دهانات بلاستيكية | مباني من الطوب الرملي الجيري | اعمال يياض اسمني | كسوة ونثام طييعي | بلاطات عرسانة عادية مقاس 2.0x2 م |
|            |           | الوحدة      |         |                                      | ر<br>م                |           | ~~                 | ۳                  | m e                         | mª-                         | 2 y                      |                                | رم<br>م                | رم<br>م                      | رم<br>م          | م.ط              | 2<br>6                           |
|            | 90/1/2    |             |         | 7                                    | 1                     | 1.07      | 0.62               | 1.36               | 8.96                        | 1.09                        | 0.44                     | 0.33                           | 0.22                   | 0.83                         | 0.44             | 0.01             | 1                                |
|            | 91/1/3    |             |         | لسية العنصر الثو                     | 2.71                  | 0.55      | 1.56               | 1.01               | 12.68                       | 0.28                        | 0.29                     | 0.15                           | 0.51                   | 1.40                         | 0.58             | 0.01             | 0.34                             |
| دلم الشروع | 90/3/4    |             |         | بة من السمر الا:                     | 1.26                  | 0.03      | 0.59               | 1.41               | 9.40                        | 1.36                        | 0.39                     | 0.53                           | 0.36                   | 1.22                         | 0.42             |                  | 0.46                             |
|            | 90/2/5    |             |         | ر التوية من السعر الاجمالي للمشروع ٪ | 0.97                  | 0.25      | 0.66               | 1.42               | 6.01                        | 1.42                        | 0.47                     | 0.40                           | 0.62                   | 1.02                         | 0.48             | 1                | 0.85                             |
|            | 90/2/2    |             |         | ×                                    | 1                     | 1.37      | 0.71               | 1.61               | 10.65                       | 0.33                        | 0.42                     | 0.26                           | 0.34                   | 1.11                         | 0.34             | 0.03             | 0.54                             |
|            | متوسط     | النسبة      | الموية  |                                      | 1.67                  | 0.65      | 0.83               | 1.36               | 9.54                        | 0.90                        | 0.40                     | 0.33                           | 0.41                   | 1.11                         | 0.45             | 0.02             | 0.55                             |

| Γ                      | 7                                  | 15                        | 16                             | 17                       | 18                    | 19                            | 20                                    | 21                                                | 22                                                | 23                                                | 24                                                         | 25                                        | 26                                         | 27                   | 28               | 29                     | 30                     | 31                                      | 32                               | 33                           | 34                        | 35                              |
|------------------------|------------------------------------|---------------------------|--------------------------------|--------------------------|-----------------------|-------------------------------|---------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------------------------------------------|-------------------------------------------|--------------------------------------------|----------------------|------------------|------------------------|------------------------|-----------------------------------------|----------------------------------|------------------------------|---------------------------|---------------------------------|
|                        | 6/4                                | 9/4                       | 1/5                            | 2/5                      | 3/5                   | 4/5                           | 5/5                                   | 4/3/2                                             | 4/3/2                                             | 4/3/2                                             | 1/4/2                                                      | 1/4/2                                     | 1/4/2                                      | 9/4/2                | 10/4/2           | 1/17                   | 2/17                   | 4/17                                    | 5/17                             | 6/17                         | 1/18                      | 2/18                            |
|                        | أ) ترابيع اسمنتية مقاس 5x40x40 مسم | طروقيات خرسانة سابقة الصب | دكة عوسانة عادية بالميل اللازم | طبقة عازلة للرطوية لفاكف | طبقة عازلة رأسية دهان | يياض اسمنعي مانع لمرور المياة | قمیص مبانی - طوب اسمنی مصعت سمك 10 سم | 2) مواسير (بي.ني.سي) قطر خارجي 160 مم وسمك 7.4 مم | 3) مواسير (بي.ني.سي) قطر خارجي 140 مم وسمك 3.2 سم | 4) مواسير (بي.ني.سي) قطر خارجي 110 مم وسمك 2.2 مم | <ol> <li>غرفة تفتيش 6.6x0.6 م بعدق لغاية 7.5 مق</li> </ol> | 2) غرفة تفتيش 6.0x0.6 م بعدق لغاية 1.0 مة | 2) غرطة تفتيش 6.0x0.0 م بعدق لفاية 1.5 متر | خوان تحليل 2.0x4.0 م | عتلدق صرف بالدبش | خرسانة عادية سمك 10 سم | خرسانة عادية سمك 15 سم | شحرسانة عادية شغيفة لزوم مل فراغ السقوط | خرسانة عادية لدكة الميول بالاسطح | سمرسانة عادية بالميل المطلوب | عرسانة مسلحة للهيكل العام | عرسانة مسلحة خزان المياة العلوي |
|                        | <sub>م</sub> د                     | ۹.<br>م                   | ~~~                            | Ne                       | ~~                    | ~~~                           | n e                                   | م.<br>ج                                           | ب<br>ج                                            | 4.e                                               | عدد                                                        | عدد                                       | عدد                                        | 4.4                  | 4                | ~~                     | 2                      | ۳                                       | 2<br>2                           | ر<br>م                       | e.                        | م                               |
|                        | 2.61                               | 0.20                      | 0.012                          | 0.04                     | 0.37                  | 0.056                         | 0.06                                  | 0.34                                              | 0.20                                              | 0.07                                              | 0.10                                                       | 0.08                                      | 0.08                                       | 0.28                 | 0.47             | 0.78                   | 0.58                   | 0.12                                    | 0.07                             | 0.01                         | 17.26                     | 0.36                            |
|                        | 4.06                               | 0.38                      | 0.02                           | 0.04                     | 0.47                  | 0.03                          | 0.06                                  | 0.32                                              | 0.15                                              | 0.10                                              | 0.05                                                       | 0.03                                      | 0.04                                       | 0.20                 | 0.57             | 0.51                   | 0.26                   | 0.12                                    | 0.07                             | 0.01                         | 13.24                     | 0.30                            |
| ed)                    | 5.26                               | 0.42                      | 0.01                           | 0.07                     | 0.63                  | 0.03                          | 0.05                                  | 0.33                                              | 0.05                                              | 0.03                                              | 0.15                                                       | 0.05                                      |                                            | 1.7                  |                  | 0.68                   | 0.34                   | 0.02                                    | 0.04                             | 0.01                         | 14.76                     | 0.33                            |
| continu                | 7.14                               | 1.17                      | 0.01                           | 0.04                     | 0.28                  | 0.05                          | 0.04                                  | 0.54                                              | 0.16                                              | 0.06                                              | 0.12                                                       | 0.02                                      | 0.07                                       | 0.33                 | 0.47             | 0.86                   | 0.45                   | 0.25                                    | 0.11                             | 0.01                         | 18.00                     | 0.37                            |
| lix A (                | 4.41                               | 0.27                      | 0.02                           | 0.015                    | 0.35                  | 0.04                          | 0.07                                  | 0.38                                              | 0.12                                              | 0.06                                              | 0.11                                                       | 0.08                                      | 0.16                                       | 0.22                 | 0.69             | 1.13                   | 0.75                   | 0.20                                    | 0.11                             | 0.01                         | 19.05                     | 0.39                            |
| Appendix A ( continued | 4.70                               | 0.49                      | 0.01                           | 0.07                     | 0.42                  | 0.04                          | 0.06                                  | 0.38                                              | 0.14                                              | 0.06                                              | 0.11                                                       | 0.05                                      | 0.09                                       | 0.26                 | 0.55             | 0.79                   | 0.48                   | 0.14                                    | 0.08                             | 0.01                         | 16.46                     | 0.35                            |

| Γ                      | 36              | 37               | 38              | 39                                      | 40                          | 41                 | 42                          | 43                                          | 44                             | 45                                        | 46                                  | 47                         | 48                               | 49                  | 50                | 51                           | 52                            | 53                                                         | 54                           | 55                 | 56                       | 57                       |
|------------------------|-----------------|------------------|-----------------|-----------------------------------------|-----------------------------|--------------------|-----------------------------|---------------------------------------------|--------------------------------|-------------------------------------------|-------------------------------------|----------------------------|----------------------------------|---------------------|-------------------|------------------------------|-------------------------------|------------------------------------------------------------|------------------------------|--------------------|--------------------------|--------------------------|
|                        | 1/19            | 2/19             | 3/19            | 5/63                                    | 1/20                        | 2/20               | <del>ξ</del> /3/20          | s/3/20                                      | 4/20                           | 5/20                                      | 7/20                                | 8/20                       | 9/20                             | 20/20               | 1/20              | 1/2/21                       | 3/21                          | 5/21                                                       | 6/21                         | 1/22               | 2/22                     | 6/22                     |
|                        | مباني سمك 10 سم | مباني سمك 15 مسم | مباني سمك 20 سم | مباني على السيخ من المطوب الرملي الجيري | بلاط موزایکو مقاس 30×30×5سم | بلاط اسمنتي سنحابي | بلاط فعتار سورامیك 15x15 سم | بلاط فعتار سيراميك 15×31 سم (مقاوم للاحماض) | كسوة رمعام طيعي برلاتو للسلالم | ترابيح رخطام طبيعي برلاتو مقاس 3x30x30 سم | قرصة من الرخام الطيعي يللسة الميضاء | جلسة (قرصة ) مناولة للمقصف | ترايح فينيل بسماكة لا تقل عن 2سم | أرضية أسمنتية عسوسة | يياض تخشين للاسقف | يياض تخشين للحوائط الداءدلية | يياض اسمنعي مانع لمرور المياة | اعمال دهانات بلاستيكية مقاومة للعوامل الجوية (رشة أمريكية) | بلاط ترابيح قيشاني بلون ابيض | طبقة عازلة للرطوبة | طبقة عازلة للحرارة أفقية | طبقة عازلة للحرارة رأسية |
|                        | 2 a             | م <sup>م</sup>   | 2<br>2          | ء<br>د                                  | 22                          | 2                  | رم<br>م                     | 2                                           | ٩.4                            | 2<br>6                                    | 4.e                                 | م.ط<br>ا                   | 24                               | 24                  | 2<br>6            | 2 N                          | ~~~                           | ر<br>م                                                     | ~~                           | Ne                 | Ne                       | n L                      |
|                        | 0.22            | 1.21             | 2.04            | 0.20                                    | 3.67                        | 1.24               | 0.44                        | 1                                           | 0.93                           | 0.12                                      | 0'0                                 | 0.06                       | 0.33                             | 0.14                | 0.23              | 0.33                         | 0.04                          | 7.77                                                       | 1.29                         | 1.32               | 0.88                     | 0.92                     |
|                        | 0.25            | 1.00             | 1.69            | 0.21                                    | 2.41                        | 1.03               | 0.33                        | 0.28                                        | 0.60                           | 0,16                                      | 0.11                                | 0.03                       | 0.35                             | 0.15                | 0.26              | 0.26                         | 0.02                          | 4.28                                                       | 1.51                         | 1.27               | 0.76                     | 0.61                     |
| ed)                    | 0.15            | 1.09             | 1.75            | 0.16                                    | 2.84                        | 1.10               | 0.33                        | 1                                           | 0.59                           | 0.17                                      | 0.15                                | 0.05                       | 0.35                             | 0.16                | 0.17              | 0.25                         | 0.02                          | 4.20                                                       | 1.21                         | 1.91               | 0.92                     | 0.67                     |
| continu                | 0.21            | 1.59             | 2.59            | 0.16                                    | 3.37                        | 1.27               | 0.29                        | 1                                           | 0.70                           | 0.21                                      | 0.19                                | 0.06                       | 0.31                             | 0.22                | 0.28              | 0.35                         | 0.04                          | 3.40                                                       | 1.02                         | 1.19               | 0.92                     | 0.99                     |
| Appendix A ( continued | 0.18            | 1.36             | 2.25            | 0.27                                    | 3.25                        | 0.86               |                             | 0.45                                        | 0.63                           | 0.21                                      | 0.11                                | 0.03                       | 0.40                             | 0.27                | 0.18              | 0.24                         | 0.03                          | 3.00                                                       | 1.35                         | 1.27               | 0.85                     | 0.71                     |
| Appen                  | 0.20            | 1.25             | 2.06            | 0.20                                    | 3.11                        | 1.10               | 0.35                        | 0.37                                        | 0.69                           | 0.17                                      | 0.13                                | 0.05                       | 0.35                             | 0.19                | 0.22              | 0.29                         | 0.03                          | 4.53                                                       | 1.28                         | 1.39               | 0.87                     | 0.78                     |

| ſ                      | 58                          | 59                                |                      | 8                   | 61                                     | 62                  | 63            | 64                                      | 65                | 66                                | 67                            | 68                  | 69                                | 70                                     | 71         | 72                              | 73                               | 74                                                         | 75                                    | 76                                            | 78                 | 62                                 |
|------------------------|-----------------------------|-----------------------------------|----------------------|---------------------|----------------------------------------|---------------------|---------------|-----------------------------------------|-------------------|-----------------------------------|-------------------------------|---------------------|-----------------------------------|----------------------------------------|------------|---------------------------------|----------------------------------|------------------------------------------------------------|---------------------------------------|-----------------------------------------------|--------------------|------------------------------------|
|                        | 1/23                        | 4/23                              |                      | 4/23                | 1/24                                   | 12/25               | 1/26          | 4/26                                    | 6/27              | 2/27                              | 3/27                          | 4/27                | 8/27                              | 9/27                                   | 1/11/27    | 12/27                           | 26/27                            | 1/28                                                       | 1/28                                  | 6/28                                          | 10/28              | 11/28                              |
|                        | دمانات ببوية البلاستيك 100٪ | دمان بلاستيك (رشة أمريكية ناعمة ) | اً) للحوائط الداعطية | ب) للاسقف الداءحلية | باب حشب تجليد ابلاكوج زان              | لوحة من الخشب الزان | شباك المونيوم | كاسرات للشمس من الالمونيوم              | ابواب معدنية جوفا | سلم حديد بحاري خزان المياة العلوي | درابزين حديد وكوبستة المونيوم | باب حديد وتحليد صاج | باب حديد حسب تفاصيل شركة الكهرباء | شباك حديد حسب تفاصيل شركة الكهرباء     | زاوية حديد | صاج بقلارة لفطاء بحاري الكابلات | مقاعد من المراسير الحديد المحلفن | توريد وتركيب صاري العلم : كم لزوم السطح الأخير بارتفاع 3 م | ب) لزوم ساحة تجميع الطلاب بارتفاع 4 م | لوحة اعلانات من الفلين الطييعي مقاس 1.2x3.0 م | تغطية فواصل التمدد | تغطية فواصل التعدد للاسطح والمتاور |
|                        | م <sup>م</sup>              | ر<br>م                            |                      | ~~~                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 2<br>6              | رم<br>۲       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~               | م.ط<br>ا                          | م.ط                           | Ne                  | N °                               | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ب<br>ج     | ~~                              | عدد                              | arc                                                        | عدد                                   | ~~                                            | م.<br>ج            | ۹.۴                                |
|                        | 0.21                        | 2.16                              |                      | 1.39                | 0.22                                   | 0.14                | 3.72          | 0.87                                    | 2.42              | 0.01                              | 0.02                          | 0.21                | 0.05                              | 0.02                                   | 0.08       | 0.10                            | 0.06                             | 0.01                                                       | 0.01                                  | 0.28                                          | 0.06               | 0.05                               |
|                        | 0.29                        | 1.26                              |                      | 0.93                | 0.13                                   | 0.01                | 3.32          | 3.12                                    | 2.01              | 0.02                              | 0.02                          | 0.11                | 0.03                              | 0.07                                   | 0.02       | 0.01                            | 0.06                             | 0.01                                                       | 0.01                                  | 0.34                                          | 0,11               | 0.03                               |
| ed )                   | 0.22                        | 1.36                              |                      | 0.99                | 0.15                                   | 0.10                | 3.36          | 0.96                                    | 1.75              | 0.03                              | 0.03                          | 0.13                | 0.04                              | 0.06                                   | 0.05       | 0.05                            | 0.06                             | 0.01                                                       | 0.01                                  | 0.42                                          | 0.13               | 0.04                               |
| continu                | 0.28                        | 1.25                              |                      | 0.92                | 0.22                                   | 0.18                | 4.39          | 1.47                                    | 2.38              | 0.06                              | 0.02                          | 0.13                | 0.04                              | 0.06                                   | 0.04       | 0.09                            | 0.06                             | 0.01                                                       | 0.01                                  | 0.49                                          | 0.36               | 0.05                               |
| lix A (                | 0.20                        | 1.04                              |                      | 0.89                | 0.17                                   | 0.07                | 3.60          | 0.84                                    | 2.72              | 0.02                              | 0.03                          | 0.15                | 0.05                              | 0.07                                   | 0.05       | 0.08                            | 0.11                             | 0.02                                                       | 0.03                                  | 0.37                                          | 0.14               | 0.11                               |
| Appendix A ( continued | 0.24                        | 1.41                              |                      | 1.01                | 0.18                                   | 0.10                | 3.68          | 1.45                                    | 2.26              | 0.03                              | 0.02                          | 0.15                | 0.04                              | 0.06                                   | 0.05       | 0.07                            | 0.07                             | 0.01                                                       | 0.01                                  | 0.38                                          | 0.16               | 0.06                               |

| ſ                      | 80                          | 81              | 82                     | 83                       | 84                         | 85                  | 86                           | 87                                                             | 88                                                 | 89                                                | 90                                                | 91                                                | 92                                                | 93                                               | 94                                             | 95                            | 96                              | 97                 | 98                          | 66                                               | 100                                                | 101                                              |
|------------------------|-----------------------------|-----------------|------------------------|--------------------------|----------------------------|---------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------------------|---------------------------------|--------------------|-----------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------------|
|                        | 12/28                       | 2/1/2           | 3/1/2                  | 6/1/2                    | 9/1/2                      | 10/1/2              | 11/1/2                       | 12/1/2                                                         | 1/2/2                                              | 1/2/2                                             | 1/2/2                                             | 1/2/2                                             | 1/2/2                                             | 2/2/2                                            | 5/2/2                                          | 5/2/2                         | 5/2/2                           | 7/2/2              | 8/2/2                       | 4/3/2                                            | 4/3/2                                              | 4/3/2                                            |
|                        | لوحات ارشادية مقاس 30×15 سم | مرحاض شرقي كامل | مرحاض افرنجي (كمبنيشن) | حوض غسيل أيدي بخلاط كروم | مرأة بللور بلجيكي نمرة (1) | رف من الصيني الابيض | حمالة ملابس مزدوجة من النحاس | حمالة مناشف من الكروم بدورة مياة المدرسين والمدير وسكن المحادس | 1) مواسير ( بي.ن. سمي) قطر خارجي 90 مم بسمك 6.7 مم | 2) مواسير ( بي.ني.سي) قطر خارجي 75 مم بسمك 6,6 مم | 3) مواسير ( بي.ني.سي) قطر خارجي 63 مم بسمك 7.4 مم | 4) مواسير ( بي.ني.سي) قطر خارجي 20 مم بسمك 7.7 مم | 5) مواسير ( بي.ني.سي) قطر خارجي 32 مم بسمك 2.4 مم | مواستر ( بي.ني.سي) قطر خارجي 110 مم بسمك 3.00 مم | <ol> <li>عبس برونز سكينة قطر 3 بوصة</li> </ol> | 2) عبس بورنز سكينة قطر 2 بوصة | 3) عبس برونز سكينة قطر 1.5 بوصة | دش كامل بفلاط كروم | حنفية رش الحدائن قطر 1 بوصة | 1) مواسير (بي.ني.سي) قطر خارجي 160 مم سمك 7.4 مم | 2) مواسير (بي. ني. سي) قطر خارجي 110 مم سمك 2.2 مم | 3) مواسير (بي.ني.سي) قطر خارجي 75 مم سملك 2.2 مم |
|                        | عدد                         | عدد             | عدد                    | عدد                      | عدد                        | arc                 | عارد                         | عادد                                                           | ۹.<br>ج                                            | ب<br>ج                                            | مبط                                               | ب<br>ج                                            | ب<br>4                                            | ٩                                                | عدد                                            | عدد                           | عدد                             | عدد                | عدد                         | ٩.<br>ط                                          | ۰.ط                                                | مبط                                              |
|                        | 0.03                        | 0.32            | 0.12                   | 0.05                     | 0.05                       | 0.005               | 0.01                         | 0.001                                                          | 0.020                                              | 0.21                                              | 0.11                                              | 0.02                                              | 0.06                                              | 0.26                                             | 0.03                                           | 0.03                          | 0.01                            | 0.09               | 0.02                        | 0.05                                             | 0.05                                               | 0.01                                             |
|                        | 0.04                        | 0.32            | 0.12                   | 0.04                     | 0.04                       | 0.005               | 0.005                        | 0.001                                                          | 0.12                                               | 0.11                                              | 0.06                                              | 0,01                                              | 0.04                                              | 0.15                                             | 0.03                                           | 0.02                          | 0.03                            | 0.008              | 0.01                        | 0.09                                             | 0.08                                               | 0.01                                             |
| ( pa                   | 0.07                        | 0.26            | 0.10                   | 0.04                     | 0.06                       | 0.01                | 0.01                         | 0.0004                                                         | 0.20                                               | 0.18                                              | 0.10                                              | 0.02                                              | 0.07                                              | 0.28                                             | 0.02                                           | 0.02                          | 0.01                            | 0.007              | 0.002                       | 0.05                                             | 0.05                                               | 0.01                                             |
| continu                | 0.19                        | 0.32            | 0.14                   | 0.03                     | 0.02                       | 0.05                | 0.01                         | 0.003                                                          | 0.39                                               | 0.33                                              | 0.14                                              | 0.02                                              | 0.05                                              | 0.50                                             | 0.01                                           | 0.002                         | 0.0005                          | 0.01               | 0.006                       | 0.12                                             | 0.12                                               | 0.02                                             |
| lix A ( 6              | 0.06                        | 0.72            | 0.29                   | 0.05                     | 0.04                       | 0.006               | 0.03                         | 0.002                                                          | 0.26                                               | 0.26                                              | 0.16                                              | 0.03                                              | 0.09                                              | 0.29                                             | 0.04                                           | 0.03                          | 0.02                            | 0.02               | 0.05                        | 0.11                                             | 0.11                                               | 0.03                                             |
| Appendix A ( continued | 0.08                        | 0.39            | 0.15                   | 0.04                     | 0.04                       | 0.02                | 0.01                         | 0.001                                                          | 0.23                                               | 0.22                                              | 0.11                                              | 0.02                                              | 0.06                                              | 0.30                                             | 0.03                                           | 0.02                          | 0.015                           | 0.03               | 0.02                        | 0.08                                             | 0.08                                               | 0.02                                             |

| -              |       | ŀ      |       | Γ     |      |                                                                           | 01011     |     |
|----------------|-------|--------|-------|-------|------|---------------------------------------------------------------------------|-----------|-----|
|                | 0.04  | 0.03   | 0.02  | 0.02  | م.ط  | 4) مواسير (بي.لي.سي) قطر خارجي 50 مم سمك 1.8 سم                           | 4/3/2     | 102 |
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| l°             | 0.05  | 0.04   | 0.03  | 0.05  | عدد  | 2) سيفون أرضية بلاستيك قطر خرجة 20 سم مزود بطبة بلاستيك                   | 6/3/2     | 104 |
| <u> </u>       | 0.006 | 0.001  | 0.01  | 0.002 | عدد  | 1) ميزراب من ماسورة حديد بحلفن قطر 2 بوصة                                 | 8/3/2     | 105 |
|                |       | 1      | 0.01  |       | عدد  | 2) ميزراب من ماسورة حديد بحلفن قطر 3 بوصة                                 | 8/3/2     | 106 |
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|                | 0.013 | 0.003  | 0.004 | 0.004 | عدد  | 1) مواية لماسورة قطر 160 سم                                               | 10/3/2    | 108 |
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| <u> </u>       | 0.004 | 0.0009 | 0.001 | 0.002 | عدد  | 4) هواية لماسورة قطر 50 سم                                                | 10/3/2    | 110 |
| +              | 0.06  | 0.03   | 0.04  | 0.05  | عدد  | حاليتراب من الفنحار المزحج قطر 10x15 سم                                   | 12/3/2    | =   |
|                | 0.09  | 0.12   | 0.09  | 0.18  | عارد | حنفية حريق خارجية 2.5 برصة                                                | 2/8/2     | 112 |
|                | 0.09  | 0.23   | 0.19  | 0.43  | عدد  | حنفية حريق خارجية 1.0 بوصة                                                | 3/8/2     | 113 |
|                | 0.02  | 0.03   | 0.02  | 0.03  | alc  | <ol> <li>سنحان كهربائي للمياة سعة 50 لتر</li> </ol>                       | 4/8/2     | 114 |
|                | 0.03  | 0.02   | 0.03  | 0.03  | عدد  | مدلاط كررم متاز للميضاة                                                   | 14/8/2    | 115 |
|                | 0.24  | 0.27   | 0.29  | 0.28  | عدد  | مجموعة مضحات مكونة من عدد 2 مضعة تصرف كل منهما 15 م <sup>3</sup> /ساعة    | 1/5/2     | 116 |
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|                | 0.03  | 0.04   | 0.03  | 0.03  | عارد | جميع توصيلات المياة وملحقاتها                                             | 7/5/2     | 117 |
| -              | 0.03  | 0.04   | 0.01  | 0.03  | عدد  | جيع قطع الاتصال ذات الفلانشات                                             | 8/5/2     | 118 |
|                | 0.03  | 0.04   | 0.01  | 0.03  | عارد | تمديدات 3 بوصة لملء الحزان بعربات نقل المياة                              | 10/5/2    | 119 |
|                | 0.04  | 0.04   | 0.01  | 0.03  | عادد | تمديدات 2 بوصة بعداد لملء الخزان ،كياة البلدية                            | 11/5/2    | 120 |
| +              | 0.02  | 0.03   | 0.02  | 0,01  | عاد  | وحدة اضاءة فلورمنت قدرة ( 20x1 ) بفطاء بلاستيك مثبة بالسقف                | 1/1/1/3/3 | 121 |
| <del>!</del> — | 0.63  | 0.74   | 0.49  | 0.49  | عاد  | وحدة اضاءة فلورسنت قدرة ( 40x1 واط ) بفطاء بلاستيك مثبتة بالسقف           | 1/4/1/3/3 | 122 |
| -              |       |        |       |       |      |                                                                           |           |     |

| 123                                                             | 124                                               | 125                                                           | 126                                               | 127                | 128                                   | 129                                                              |                | 130                                            | 131                              | 132                                            | 133                | 134               | 135                   | 136                | 137                                                            | 138                              | 139                               | 140                                                      | 141                                                           | 142                               | 143                               |
|-----------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------|--------------------|---------------------------------------|------------------------------------------------------------------|----------------|------------------------------------------------|----------------------------------|------------------------------------------------|--------------------|-------------------|-----------------------|--------------------|----------------------------------------------------------------|----------------------------------|-----------------------------------|----------------------------------------------------------|---------------------------------------------------------------|-----------------------------------|-----------------------------------|
|                                                                 |                                                   |                                                               |                                                   |                    |                                       |                                                                  |                |                                                |                                  |                                                |                    |                   |                       |                    |                                                                |                                  |                                   |                                                          |                                                               |                                   |                                   |
| 1/5/1/3/3                                                       | 2/5/1/3/3                                         | 2/6/1/3/3                                                     | 2/4/3/3                                           | 1/6/3/3            | 1/10/3/3                              | 1/2/11/3/3                                                       |                | 1/14/3/3                                       | 11/14/3/3                        | 10/14/3/3                                      | 1/16/3/3           | 2/16/3/3          | 3/16/3/3              | 17/3/3             | 2/2/18/3/3                                                     | 4/18/3/3                         | 6/18/3/3                          | 1/6/18/3/3                                               | 2/6/18/3/3                                                    | 11/18/3/3                         | 12/18/3/3                         |
|                                                                 |                                                   |                                                               |                                                   |                    |                                       | 1                                                                |                |                                                |                                  |                                                |                    |                   |                       |                    |                                                                |                                  |                                   |                                                          |                                                               |                                   |                                   |
| وحدة اضاءة فلورسنت قدرة ( 40x2 واط ) بفطاء بلاستيك مثبتة بالسقف | وحدة اضاءة فلورمنت قدرة ( 40x2 واط ) بنائير للضوء | وحدة اضاءة فلورمنت قدرة ( 40x3 واط ) بناشر للضوء مثبتة بالسقف | كشاف نصف كروي واللمبة زبقية قدرة 125 واط/220 نولت | وحدة انارة للطواري | بحموعة كشافات هالومين لملعب كرة السلة | عامود انارة الموقع العام ( خزوطي بارتفاع 4 م يحمل فانوس قدرة 122 | واط/222 فولت ) | مفتاح تشغيل للمكيف طراز شباك سعة (2x05 أمبير ) | بريزة عادية سعة 15 أمبر/121 فرلت | بريزة قوى للاغراض العادية سعة 13 أسبو/220 فولت | ضاغط جرس للاستدعاء | لوحة ميينات أرقام | جرس كهرباتي للاستدعاء | جرس كهرباتي للطلبة | لوحة توزيع فرعية بقاطع رئيسي سمة ( 40x2 أمبير ) لغرفة الكهرباء | لوحة توزيع فرعية سعة (50 أمبير ) | لوحة توزيع فرعية سعة (100 أمبير ) | لوحة توزيع فرعية لملعهي كوة السلة واليد سعة (100 أسبير ) | لوحة توزيع فرعية سعة (100 أسبر ) للموقع العام بخلية كهروضوئية | لوحة توزيع فرعية سعة (250 أمبير ) | لوحة توزيع فرعية سعة (300 أمبير ) |
| عدد                                                             | عدد                                               | عدد                                                           | arc                                               | alc                | arc                                   | פונ                                                              |                | عدد                                            | عدد                              | عدد                                            | عدد                | عارد              | علدد                  | عارد               | عدد                                                            | عارد                             | عارد                              | عدد                                                      | عدد                                                           | عدد                               | arc                               |
| 0.22                                                            | 1.72                                              | 0.04                                                          | 0.09                                              | 0.26               |                                       | 0.40                                                             |                | 0.49                                           | 0.50                             | 0.32                                           | 0.02               | 0.01              | 0.007                 | 0.10               | 0.01                                                           | 0.01                             | 0.02                              | 1                                                        | 0.02                                                          | 0.36                              |                                   |
| 0.21                                                            | 1.57                                              | 0.01                                                          | 0.08                                              | 0.17               | 0,19                                  | 0.45                                                             |                | 0.33                                           | 0.44                             | 0.22                                           | 0.02               | 0.01              | 0.003                 | 0.05               | 0.01                                                           | 0.01                             | 0.06                              | 0.03                                                     | 0.03                                                          | 0.21                              | 0.11                              |
| 0.29                                                            | 2.40                                              | 0.05                                                          | 0.04                                              | 0.11               | 0.35                                  | 1.12                                                             |                | 0.45                                           | 0.61                             | 0.34                                           | 0.03               | 0.02              | 0.002                 | 0.08               | 0.01                                                           | 0.01                             | 0.03                              | 0.03                                                     | 0.07                                                          | 0.32                              |                                   |
| 0.24 0                                                          | 1.93                                              | 0.05                                                          | 0.22                                              | 0.26               | 0.30                                  | 0.75                                                             |                | 0.45                                           | 0.50                             | 0.32                                           | 0.03               | 0.02              | 0.01                  | 0.12               | 0.03                                                           | 0.05                             | 0.03                              | 0.04                                                     | 0.05                                                          | 0.31                              |                                   |
|                                                                 | 1.87                                              | 0.04                                                          | 0.09                                              | 0.24               | 0.37                                  | 1.37                                                             | -              | 0.94                                           | 0.45                             | 0.25                                           | 0.05               | 0.01              | 0.01                  | 0.06               | 0.02                                                           | 0.03                             | 0.05                              | 0.06                                                     | 0.06                                                          | 0.48                              |                                   |
| 0.24 0.24                                                       | 1.90                                              | 0.04                                                          | 0.10                                              | 0.21               | 0.30                                  | 0.82                                                             |                | 0.53                                           | 0.50                             | 0.29                                           | 0.03               | 0.01              | 0.006                 | 0.08               | 0.02                                                           | 0.02                             | 0.04                              | 0.04                                                     | 0.05                                                          | 0.34                              | 0.11                              |

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Appendix A ( continued )

| H            | 11/1/19/3/3 144                                   | 11/2/19/3/3 145                     | 5/1/23/3/3 146                                    | 6/1/23/3/3 147                                   | 12/1/23/3/3 148                                   | 14/1/23/3/3 149                                     | 7/2/23/3/3 150                                       | 13/2/23/3/3 151                                     | 1/3/23/3/3 152                                     | 1/26/3/3 153                       | 2/26/3/3 154                             | 1/3/1/2/4 155        | 2/3/1/2/4 156 | 3/3/1/2/4 157 | 4/3/1/2/4 158 | 1/3/2/5 159                                                               |                                                        | 1/3/2/5 160                                                               |                                                         | 1/4/4/5 161                                                                                       |
|--------------|---------------------------------------------------|-------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|------------------------------------|------------------------------------------|----------------------|---------------|---------------|---------------|---------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| L            |                                                   |                                     |                                                   |                                                  |                                                   |                                                     |                                                      |                                                     |                                                    |                                    |                                          |                      |               |               |               |                                                                           | C·J                                                    |                                                                           | <b>.</b>                                                |                                                                                                   |
|              | لوحة توزيع عمومية لمبنى المدرسة سعة (1800 أسبير ) | لوحة توزيع رئيسية سعة (2500 أمبير ) | كابل ئرموبلاستيك مقاس ( 16x25x3 مم <sup>2</sup> ) | كابل ئرموبلاستيك مقاس ( 5x35x3 مم <sup>2</sup> ) | كابل ئرموبلاستيك مقاس ( 5x185x9 مس <sup>2</sup> ) | كابل ئرموبلاستيك مقاس ( 150x300x1 مع <sup>2</sup> ) | كابل ثرموبلاستيك مسلح مقلس ( 25x50 مم <sup>2</sup> ) | كابل ثرموبلاستيك مقاس ( 120x240x3 مم <sup>2</sup> ) | كابل ئرموبلاستيك مفرد مغلس ( 630 مم <sup>2</sup> ) | طفاية حريق بودرة كيمارية سعة 6 كجم | طفاية حريق ثاني اكسيد الكربون سعة 6 كجمم | حهاز التكبير الصوتمي | عدود صوتي     | ميكرونون      | غرج ميكرونون  | مكيف هواء طراز الشباك تيريد/ تدفعة ( ذو قدرة قياسية للتبريد قدرها : 18000 | و.ح.ب /ساعة ؛ وفدرة سخان كهربامي للندفنة : 3 كبلووات ) | مكيف هواء طراز الشباك تبريد/ تدفعة ( ذو قدرة قياسية للتبريد قدرها : 24000 | و.ح.ب /ساعة ؛ وقدرة سلحان كهربامي للتدفنة : 3 كبلووات ) | ر.ح.ب /ساعة ؛ وقدرة سخان كهرباني للتدفئة : 3 كبلورات )<br>مروحة تهوية سقفية بقطر 142 سم (36 بوصة) |
|              | عارد                                              | عدد                                 | ب<br>ج                                            | ب<br>ج                                           | ب<br>ج                                            | ب<br>ج                                              | ب<br>ج                                               | e.9                                                 | ب<br>ج                                             | 31.5                               | arc                                      | arc                  | arc           | arc           | arc           | arc                                                                       |                                                        | alc                                                                       | <br>                                                    | ना                                                                                                |
|              | 0.40                                              | 0.33                                |                                                   |                                                  | 0.74                                              |                                                     | 0.09                                                 | 1.13                                                | 0.20                                               | 0.12                               | 0.09                                     | 0.17                 | 0.04          | 0.02          | 0.02          | 2.62                                                                      |                                                        | .                                                                         |                                                         | 0.57                                                                                              |
|              | 0.053                                             | 0.57                                | 0.01                                              | 0.004                                            | 0.36                                              | 0.16                                                | 0.19                                                 | 1.67                                                | 0.28                                               | 0.07                               | 0.09                                     | 0.03                 | 0.03          | 0.02          | 0.02          | 2.41                                                                      |                                                        | 0.11                                                                      |                                                         | 0.48                                                                                              |
| ( na         | 0.46                                              | 0.49                                |                                                   |                                                  | 0.82                                              |                                                     | 0.35                                                 | 2.11                                                | 0.23                                               | 0.06                               | 0.10                                     | 0.06                 | 0.06          | 0.02          | 0.02          | 3.24                                                                      |                                                        |                                                                           |                                                         | 0.698                                                                                             |
| continueu )  | 0.79                                              | 0.89                                |                                                   | 1                                                | 1.15                                              |                                                     | 0.49                                                 | 1.16                                                | 0.24                                               | 0.10                               | 0.12                                     | 0.12                 | 0.06          | 0.05          | 0.01          | 3.34                                                                      |                                                        |                                                                           |                                                         | 0.79                                                                                              |
|              | 0.46                                              | 0.57                                |                                                   | 1                                                | 0.60                                              |                                                     | 0.56                                                 | 1.76                                                | 0.19                                               | 0.09                               | 0.09                                     | 0.09                 | 0.03          | 0.03          | 0.01          | 1.88                                                                      |                                                        |                                                                           |                                                         | 0.64                                                                                              |
| Appendix A ( | 0.53                                              | 0.57                                | 0.01                                              | 0.004                                            | 0.73                                              | 0.16                                                | 0.34                                                 | 1.57                                                | 0.23                                               | 0.09                               | 0.10                                     | 0.09                 | 0.04          | 0.03          | 0.016         | 2.70                                                                      |                                                        | 0.11                                                                      |                                                         | 0.64                                                                                              |

Appendix A ( continued )

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| 4             |
| XA            |
| oendix A      |

| 164                              | 165                                   |
|----------------------------------|---------------------------------------|
| 1/1/5/5                          | 2/5/5 165                             |
| ميرد ميلة شرب من النوع ذي الحزان | مبود مياة شرب من النوع ذي القارورة    |
| عدد                              | عارد                                  |
| 0.47                             | 0.14                                  |
| 0.34                             | 0.06                                  |
| 0.65                             | 0.16                                  |
| 0.53                             | 0.18                                  |
| 0.57                             | 0.14                                  |
| 0.51                             | 0.14                                  |
|                                  | مدد 0.34 0.47 0.53 0.65 0.34 0.47 مدد |

# APPENDIX - B

Appendix B:

ترجمة لقائمة عناصر مؤشر السعر لمباني المدارس في المملكة العربية السعودية .:

 $^{m \star}$  A translation list of the price index items for school projects in Saudi Arabia .

| No. | No. of the            | Work Items                                         | Unit           | Ĵ,     | يوا ن الأعمال                        | الوقع |
|-----|-----------------------|----------------------------------------------------|----------------|--------|--------------------------------------|-------|
|     | item in the<br>MOE    |                                                    |                | العنصر |                                      |       |
|     | Specification<br>Book |                                                    |                | النوية |                                      |       |
| _   | 1/2                   | Excavation work .                                  | m <sup>3</sup> | 1.67   | أعمال حفر أو قطم ترية.               | -     |
| 5   | 1/3                   | Backfilling work .                                 | m <sup>3</sup> | 0.65   | أعمال ردم .                          | 7     |
| 3   | 2/1                   | Excavation work for the foundation .               | m <sup>3</sup> | 0.83   | أعمال حفر للأساسات .                 | 3     |
| 4   | 2/2                   | Plain concrete work under the foundation .         | т <sup>э</sup> | 1.36   | أعمال خرسانة عادية أسفل الأساسات .   | 4     |
| s   | 2/3                   | Reinforced concrete work for the foundation .      | ш <sup>3</sup> | 9.54   | أعمال خرسانة مسلحة للأماسات .        | S     |
| 9   | 2/4                   | Natural crushed stone sub-base course .            | m <sup>3</sup> | 0.90   | دكة بلوكاج من كسر حجر طبيعي .        | 9     |
| 7   | 3/1                   | Buildings made from Calcium Silicate bricks .      | m²             | 1.11   | مباني من الطوب الرملي الجوري .       | 7     |
| 8   | 4/6                   | Concrete pavers (40x 40x5 cm)                      | m²             | 4.70   | ترابيع أسمنتية مقاس ( 5×40×40 سم ) . | 8     |
| 6   | 17-1                  | Plain concrete with 10 cm thickness.               | m²             | 0.79   | خرسائة عادية سمك 10 سم .             | 6     |
| 10  | 18-1                  | Reinforced concrete for the whole superstructure . | m <sup>3</sup> | 16.46  | عرسانة مسلحة للهيكل العام .          | 10    |
| =   | 19-2                  | CMU walls with 15 cm thickness.                    | m²             | 1.25   | مباني سمك 15 سم .                    | 11    |
| 12  | 19-3                  | CMU walls with 20 cm thickness.                    | m²             | 2.06   | مباني سمك 20 سم .                    | 12    |
| 13  | 20-1                  | Glazed mosaic tiles ( size 30x30x3 cm ).           | m²             | 3.11   | بلاط موزايكو مقاس (3x30x30 سم).      | 13    |
| 14  | 20-2                  | Floor tiling .                                     | m²             | 1.10   | بلاط أممنق سنجابي .                  | 14    |
|     |                       |                                                    |                |        |                                      |       |

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| Ap | Appendix B ( continued | ntinued )                                                                       |                |        |                                                                                     | [     |
|----|------------------------|---------------------------------------------------------------------------------|----------------|--------|-------------------------------------------------------------------------------------|-------|
| °Ż | No. of the             | Work Items                                                                      | Unit           | Ĵ      | يا ن الأعمال                                                                        | الرقم |
|    | item in the<br>MOE     |                                                                                 |                | العنصر |                                                                                     |       |
|    | Specification          |                                                                                 |                | الثوية |                                                                                     |       |
| 15 | 20-4                   | Natural marble for stairs .                                                     | æ              | 0.69   | كسوة رخام طبيعي برلاتو للسلالم .                                                    | 15    |
| 16 | 21-5                   | Plastic weather-resistant paints.                                               | m <sup>2</sup> | 4.53   | أعمال دهانات بلاستيكية مقاومة للعوامل الجوية ( رشة أمريكية ).                       | 16    |
| 17 | 21-6                   | White glazed ceramic tiles .                                                    | m <sup>2</sup> | 1.28   | بلاط ترابيع قيشاني بلون أبيض .                                                      | 17    |
| 18 | 22-1                   | Insulator layer for moisture.                                                   | m <sup>2</sup> | 1,39   | طبقة عازلة للرطوبة .                                                                | 18    |
| 19 | 22-2                   | Thermal insulation, horizontal.                                                 | m <sup>2</sup> | 0.87   | طبقة عاذلة للحرارة ألقية .                                                          | 19    |
| 20 | 22-6                   | Thermal insulation, vertical.                                                   | m <sup>2</sup> | 0.78   | طبقة عازلة للحرارة رأسية .                                                          | 20    |
| 21 | 23-4-A                 | Plastic paint for interior walls ( smooth American texture ).                   | m²             | 1.41   | دهان بلاستيك ( رشة امريكية ناعمة ) للحوائط الداخلية .                               | 21    |
| 22 | 23-4-B                 | Plastic paint for interior ceilings ( smooth American texture ).                | m²             | 1.01   | دمان بلاستيك ( رشة أمريكية ناعمة ) للاسقف الدامطية .                                | 22    |
| 23 | 26-1                   | Aluminum windows .                                                              | m²             | 3,68   | شباك الألمنيوم .                                                                    | 23    |
| 24 | 27-6                   | Hollow metallic doors .                                                         | m²             | 2.26   | أبراب معدية جوفاء .                                                                 | 24    |
| 25 | 3/3/1/4/1              | Fluorescent lighting fixture, (1x40 watt), with plastic cover, ceiling mounted. | No.            | 0.59   | وحدة اضاءة فلورسنت قدرة (A0x1 واط ) بفطاء بلا ستيك منبته<br>بالسقف .                | 25    |
| 26 | 3/3/1/5/2              | Fluorescent lighting fixture, (2x40 watt) with reflector .                      | No.            | 1.90   | وحدة اضاءة فلورسنت قدرة (40x2 واط ) بناشر للضوء .                                   | 26    |
| 27 | 3/3/11/2/1             | Lamp-post for the site ( 4m high with 125 watt / 220 volt lamp ).               | No.            | 0.82   | عمود أثارة للموقع العام ( غزوطي بارتفاع 4م يحمل فانوس قدرة<br>125 واط / 220 فولت ). | 27    |
| 28 | 3/3/14/1               | (Switch, A/C, window type 2x30 Amps).                                           | No.            | 0.53   | مفتاح تشغيل للمكيف طراز شباك سعة (2 x 0 أمبير ) .                                   | 28    |

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| No. | No. of the<br>item in the | Work Items                                                       | Unit | 7                | بيا ن الأعمال                                           | الرقع |
|-----|---------------------------|------------------------------------------------------------------|------|------------------|---------------------------------------------------------|-------|
|     | MOE<br>Specification      |                                                                  |      | المنصر<br>النوية |                                                         |       |
|     | Book                      |                                                                  |      |                  |                                                         |       |
| 29  | 3/3/14/11                 | Lighting switch (15 Amps / 127 volt).                            | No.  | 0.50             | بريزة عادية سعة 15 أمبير / 127 فولت.                    | 29    |
| 30  | 3/3/19/1/11               | Main switchboard, school building.                               | No.  | 0.53             | لوحة توزيع عمومية لمبنى المدرسة .                       | 30    |
| 31  | 3/3/19/2/11               | Main distribution panelboard .                                   | No.  | 0.57             | لوحة توزيع رئيسية .                                     | 31    |
| 32  | 3/3/23/1/12               | Thermoplastic cable (size 3x185x95mm <sup>2</sup> )              | m.   | 0.73             | كابل ثرموبلاستيك مقاس (35×185×9 مم2 )                   | 32    |
| 33  | 3/3/23/2/13               | Reinforced thermoplastic cable (size 3x240x120mm <sup>2</sup> ). | Ш.   | 1.57             | كابل ثرموبلاستيك مسلح مفاس (20x240x3 مم 2 )             | 33    |
| 34  | 5/2/3/1                   | A/C unit windows type ( cool / heat 18000 BTU / h, 3             | No.  | 2.70             | مكيف هواء طراز شباك تتريد / تدفعة (18000 و.ح.ب / الساعة | 34    |
|     |                           | KW).                                                             |      |                  | . 3كيلو وات ).                                          |       |
| 35  | 5/4/4/1                   | Ceiling air fan ( dia. 142cm ( 56 in )).                         | No.  | 0.64             | مروحة تهوية سقفية بقطر 142 سم / (36 بوصة ) .            | 35    |
| 36  | 5/5/1/1                   | Drinking water cooler ( tank type ) .                            | No.  | 0.51             | مبرد مياة شرب من النوع دي الخزان .                      | 36    |
|     |                           |                                                                  |      | 75.02            | الجعوع الكلي لمتومط النسب المثوية 🛛 =                   |       |

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