CENTRE OF STUDIES FOR BUILDING SURVEYING

FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING

UNIVERSITI TEKNOLOGI MARA

ASSESSMENT OF VERTICAL TRANSPORTATION SYSTEM IN OLDEST SHOPPING MALL

MUHAMMAD RASUL BIN AHMAD NASIR

(2013234444)

Academic Project submitted in partial fulfillment of the requirementsfor the degree of

Bachelor of Building Surveying (Hons)

Centre of Studies for Building Surveying

Faculty of Architecture, Planning & Surveying

JUNE 2015

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"I hereby declare that this academic project is the result of my own researchexcept for the quotation and summary which have been acknowledged"

Student's Name   : **MUHAMMAD RASUL BIN AHMAD NASIR**

Signature   :

UITM No.   : **2013234444**

ABSTRACT

Vertical transportation system in oldest shopping mall is very important to make sure the system such as elevator are functional and can transport occupants efficiently. Besides, assessment work or activities cannot separate with the involvement of cost which sometimes high depends to type of damages occur. Maintenance work of vertical transportation system is more focus to inspection, repairing, security, and others aspect such as the satisfaction of elevator user. Meanwhile, there are four objectives to achieve above aims are to understand the management of the vertical transportation system in oldest shopping mall, to know the level of satisfaction of the users regarding the maintenance for vertical transportation system in oldest shopping mall, to identify the problem and effectiveness of vertical transportation system maintenance in oldest shopping mall and to analyze and recommend a comprehensive maintenance approach for vertical transportation system. Scope of study is focus on assessment of vertical transportation system in oldest shopping mall. Interviews session and observation was conducted by the author to achieve aim and objectives. Interviews session was also involved the parties from elevator contractor. Based on data analysis, vertical transportation system in oldest shopping mall mostly using out-source practice of elevator contractor. Usually, out-source contractor will quote for the highest maintenance cost, not produce the best quality of maintenance work, and take time for process find out-source contractor. Overall, the most of user are unsatisfied of vertical transportation system in oldest shopping mall. This is may be done to required performance of the elevator is up to expectation standard.

ACKNOWLEDGEMENT

CHAPTER 1

INTRODUCTION

1.1 Overview

Assessment of maintenance for vertical transportation system is an approach by carry out assessment works and providing maintenance services to ensure the vertical transportation system in good performance. The scope of assessment of maintenance covers a wide area; it is not only to do maintenance works only, but how the progress after the maintenance process. In this research, it focuses on the assessment of maintenance of vertical transportation system in oldest shopping mall.

Vertical transportation system is defined as a elevator or lift that transport people or goods from one level to the another level. This system is significant for people to accomplish basic objectives or tasks that require them to move from one level to the another in a building. In addition, vertical transportation system is a platform for bring the materials and peoples to move about. The assessment of vertical transportation system can be carry out by the building inspector or elevator inspector and through the elevator contractor. Assessment is defined as process to examine, evaluate, investigate the problems and value the step to recommend for upgrading or select the best vertical transportation system. Oldest vertical transportation system that used in the oldest shopping mall will cause a problem to users in completing their movement from one level to another.

In designing the vertical transportation systems, important factors that should be considered are the passenger capacity and the satisfaction of the users. The passengers capacity in the elevator should be balanced with the elevator requirements of the existing and proposed development that are expected to serve. In this context, the design of the elevator must be adequate and proportionate with the number of passengers. Passengers defined as the number of people that use the elevator during