#### **Comparative Advantage in Indian Economy: 1990-2014**

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**Abstract:** The most countries try to improve their advantage towards goods with high range of demand and sustainable trade such as industrial goods and merchandise. India embarked on the path of globalization in the early 1990s with the objective to attain a higher growth profile. This question can be brought up in which goods India has have comparative adventage. The aim of this study is to analyze comparative advantages of Indian's exports commodities during of post liberalsation in 1990-2014. The well-known index for determining trade advantage is revealed comparative advantage (RCA) by Balasa. The findings by India's RCA in exports showed India has gained comparative advantage in a number of agriculture sector such as Food items, Textiles, Leather and other Manufactures.

#### Keywords: Comparative advantage index, Trade relation, agricultural and industrial goods

#### **1. Introduction**

The concept of Revealed Comparative Advantage (RCA) has been developed by Balasa (1965) for improving Ricardo theory who had laid down the basic tenets of comparative advantage. The term can note that countries specialize and export items, which they can produce at lower cost in comparison to the world. In Balasa's (1985) view, the comparative advantage that a country enjoys primarily depends on its physical and human capital endowments (Burange, 2008). India embarked on the path of globalization in the early 1990s with the objective of improving overall productivity, competitiveness and efficiency of the economy in order to attain a higher growth profile. India is a newly industrialized country; it has a long history of collaboration with several countries and is considered one of the leaders of the developing world along with China, Brazil, Russia and South Africa. India was one of the founding members of several international organizations, most notably the United Nations, the Asian Development Bank, G20industrial nations and the founder of the Nonaligned movement. India has also played an important and influential role in other international like East Summit, World Trade Organization, International organizations Asia Monetary Fund (IMF), G8+5 and IBSA Dialogue Forum. Regionally, India is a part of South Asian Association for Regional Cooperation (SAARC). India has taken part in several UN peacekeeping missions and in 2007; it was the second-largest troop contributor to the United Nations. India has made an extensive effort to liberalize its international trade since 1991 and the consequent increase in competitive pressures and technology transfers, is expected to have led to a restructuring of the economy such that the composition of exports reflects India's comparative advantage in the global economy. Therefore, it is important to explore the structure of comparative advantage of India and the extent to which the economic sectors can compete with others in the global market for manufacturing sector commodities. With Considering of economic data and information this question can be brought up that India in which commodities has comparative advantage. In the next section, for answering to this question, the Indian export comparative advantage will be computed. Therefore, the rest of the paper is organized as follows. Sections two will review composition of India's foreign trade and direction of India's foreign trade. Competitive advantage concept and determination methods are provided in section three and followed by the summary and conclusion in the last section.

# 2. Composition of India's foreign trade

Generally, a clear trend over the years exposes a decline in the importance of agriculture and allied products and a substantial increase in the importance of manufactured products. For instance, the share of Agriculture and Allied products in total exports fell considerably from 44.2% in 1960-61 to 21.1% in 1996-97 while the share of manufactured products increased from 45.3% to 74.5% over the same period (Misra and Puri, 1998). However, recently the share of Agriculture and Allied products reduced from14.19% accounting for US\$ 6256 mn in 2000-2001 to 9.7% accounting for US\$ 24448 mn in 2010-11 and finally increased from 9.7% to 12.34% accounting for US\$ 37618 mn in 2011-12 while that of manufactured products reduced considerably

and continuously from 79.81% accounting for US\$ 35181 mn to 69% accounting for US\$ 173263 mn and thus culminating to 66% accounting for US\$ 201237 mn respectively, over the same periods. Likewise, the other two items of India's exports have undergone so much of changes. For example, the share of Ores and Minerals (excluding Coal) in total exports increased slightly from 2.05% in 2000-01 to 3.4% in 2010-11 and then it reduced from 3.4% to 2.8% in 2011-12 while the share of Mineral fuels and lubricants (including Coal) increased significantly from 4.38% in 2000-01 to 16.8% in 2010-11 and therefore to 18.71% in 2011-12. The top exports of India are Refined Petroleum (\$29.2 B), Diamonds (\$23.2 B), Packaged Medicaments (\$13.4 B), Jewellery (\$9.2 B) and Rice (\$6.55 B), using the 1992 revision of the HS (Harmonized System) classification. Its top imports are Crude Petroleum (\$64.6 B). Gold (\$35.4 B). Diamonds (\$17.2 B). Coal Briquettes (\$13.9 B) and Petroleum Gas (\$11.7 B). The top export destinations of India are the United States (\$44.1 B), the United Arab Emirates (\$30 B), China (\$12 B), Hong Kong (\$11.4 B) and the United Kingdom (\$9.2 B). The top import origins are China (\$59 B), Switzerland (\$21.5 B), the United States (\$20 B), Saudi Arabia (\$19.9 B) and the United Arab Emirates (\$19.4B) (Workman, 2017). In 2015 India exported \$276B, making it the 16th largest exporter in the world. During the last five years the exports of India have increased at an annualized rate of 2.9%, from \$205B in 2010 to \$276B in 2015. The most recent exports are led by Refined Petroleum which represent 10.6% of the total exports of India, followed by Diamonds, which account for 8.4%.

1990-91			2000-01				2014-2015		
Commodity Group	\$	share	\$	share	\$	share	\$	share	
	million	%	million	%	million	%	million	%	
Agricultural and allied products	3521	19.41	6256	14.19	24448	9.73	39357	12.69	
Ores and minerals (excl. coal)	834	4.60	906	2.06	8581	3.42	4680	1.51	
Manufactured goods	13229	72.92	35181	79.82	173263	68.99	207087	66.77	
Mineral fuels and lubricants (incl. coal)	528	2.91	1931	4.38	42280	16.84	57405	18.51	
Total export	18143	100.00	44076	100.00	251136	100.00	310147	101.00	

Source: Economic Survey (Statistical Appendix) and researchers' calculation

#### Table 2: Value and percentage share of principal items of Indian's imports 1990-2014

	1990-91		2000-01		2010-11		2014-15	
Commodity Group		share	\$	share	\$	share	\$	share
	\$ million	%	million	%	million	%	million	%
II.4 Petroleum, oil and lubricants	6028	25.04	15650	30.44	105964	28.66	138326	30.87
II.5.1 Edible oils	182	0.76	1334	2.59	6551	1.77	10621	2.37
II.6.1 Fertilizers and fertilizer mfg	984	4.09	664	1.29	6885	1.86	7399	1.65
II.6.2 Chemical elements and compounds	1276	5.30	338	0.66	2914	0.79	23899	5.33
II.6.5 Plastic material, regenerated cellulose and								
artificial resins	610	2.53	558	1.09	6874	1.86	10943	2.44
II.9.1 Pearls, precious and semiprecious stones,								
unworked or worked	2083	8.65	4838	9.41	34620	9.36	22598	5.04
II.10 Iron and steel	1178	4.89	781	1.52	10376	2.81	16301	3.64
II.11 Non-ferrous metals	614	2.55	539	1.05	4667	1.26	49676	11.09
III. Capital goodsa	5833	24.23	5534	10.76	50907	13.77	53298	11.90
III.2 Non-electrical machineryb apparatus and								
appliances including machine tools	2363	9.82	3703	7.20	26111	7.06		
III.3 Electrical machineries, apparatus and appliancesb	949	3.94	487	0.95	3845	1.04		
III.4 Transport equipmen Total Import	931	3.87	953	1.85	11467	3.10		
		100.0		100.0		100.0		100.0
Total import	24075	0	51413	0	369769	0	448033	0

Source: Economic Survey (Statistical Appendix) and researchers' calculation

With the initiation of the planning process in India in 1951-52, and more specifically with the beginning of Second Five Year plan in 1956-57, composition of India's import underwent a considerable change. It imposed a heavy emphasis on the development of capital goods and basic industries. As a result, it became necessary to import capital equipment in large quantities. The importable items of India have divided into

four broad groups: A) Food and live animals chiefly for food B) Raw materials and intermediate manufactures C) Capital goods D) Other goods. From the second group, Raw materials and intermediate manufactures, the item Petroleum oil and lubricants and Iron and steel have been playing a vital role in the total imports in comparison to Fertilizers and Chemical elements and compounds. In this way, the total share of import of Petroleum oil and lubricants declined from 31.31% accounting for US\$ 15650 mn in 2000-01 to 28.65% accounting for US\$ 105964 mn in 2010-11 and finally, it increased from 28.65% to 31.66% accounting for US\$ 154906 mn in 2011-12 while that of Iron and steel increased from 1.56% accounting for US\$ 781 mn in 2000-01 to 2.8% accounting for US\$ 10376 mn in 2010-11 and suddenly the share of 2.8% fell down to 2.4% accounting for US\$ 11959 mn in 2011-12.

However, the total share of two other items increased continuously due to a constant rise in the share of Fertilizers in such way that their total share augmented from 1.99 % in 2000-01 to 2.58 % in 2010-11 and at last to 2.94% in 2011-12. The following product groups represent the highest dollar value in India's import purchases during 2016 also is shown the percentage share each product category represents in terms of overall imports into India. Mineral fuels including oil: US\$89.3 billion (25% of total imports) ; Gems, precious metals: \$48.1 billion (13.5%) ; Electrical machinery, equipment: \$37 billion (10.4%); Machinery including computers: \$32.5 billion (9.1%) ; Organic chemicals: \$14.8 billion (4.1%) ; Plastics, plastic articles: \$11.4 billion (3.2%) ; Animal/vegetable fats, oils, waxes: \$10.5 billion (2.9%) ; Iron, steel: \$8.7 billion (2.4%) ; Optical, technical, medical apparatus: \$7.2 billion (2%) ; Ships, boats: \$5.5 billion (1.5%) and Imported plastics and plastic articles had the fastest-growing increase in value among the top 10 import categories, up 121.9% for the 7-year period starting in 2009. In 2015 India imported \$368B, making it the 14th largest importer in the world. During the last five years the imports of India have increased at an annualized rate of 1.1%, from \$324B in 2010 to \$368B in 2015. The most recent imports are led by Crude Petroleum which represent 17.5% of the total imports of India, followed by Gold, which account for 9.6%. (Workman ,2017)

#### 3. Competitive advantage

Comparative advantage which is raised in relation to international trade means if a country manufacture and export a good cheaper than other goods, that country has comparative advantage in production of such goods, therefore upon entering into world experiences scene, we may benefit from export of goods providing comparative advantage. Since emerging the concept or principle of comparative advantage, its concept has been varied intensively. Ricardo defined the comparative advantage based on the actual value of work consumed for good production. According to the theory of Ricardo, comparative advantage means a country manufactures a good with lower actual work than the other goods. Even if production of a country's goods is running with higher work than the other countries, comparative advantage or superiority of this country for production and trade is allocated to goods with the minimum absolute non-advantage. Gradually, the concept of Ricardo's comparative advantage based on actual value of work was replaced by theory of "comparative advantage of missed opportunities cost". Nevertheless, the above theories follow a goal means expression of countries' exchange cause. With respect to basis, the concept of regional advantage is mostly similar to the presented international definitions, with this difference that in the regions, production factor is focused. According to comparative advantage principle, each region intends to be allocated for production and export of goods with lower costs; in other word, each region comparing to other regions or manufacturing goods have tendency to manufacture the goods that obtain more advantage or lower non-advantage for their production. This concept has been known as comparative advantage principle. In general, comparative advantage may be defined as capability of a country in production and export of goods with cheaper cost and higher quality (Stiglitz, 2002).

The commodity pattern of comparative advantage is a central concept in international trade theory. However, the empirical measurement of comparative advantage is difficult because the concept is defined in terms of relative autarkic prices, which are not observable in post-trade equilibrium. To compute the competitive advantage, various methods and indices have been used. Some of them are completely formed based on theoretical and unreal factors such as competitive performance of markets, and their results are lowly reliable, hence economists focus on the statistics and data after foreign trade exchanges and determine the competitive advantage based on these data. One of indices used inspiring of a country's export statistics for computation of competitive advantage and known as functional method (Lee, 1995). Datt and Sundharam

(2010) analyzed different properties of RCA indices to estimate the actual competitive advantage. Vollrath (1991) is one of economists that applied studies on measurement of competitive advantage and ultimately introduced the completed index of Balasa as follows:

$$RCA_{a}^{i} = \left[\frac{X_{a}^{i}}{X_{t}^{i}}\right] / \left[\frac{X_{a}^{w}}{X_{t}^{w}}\right]$$

 $X_a$ : Export value of manufacturing or nonmanufacturing good a of country i

 $X_t^i$ : Export value of export goods of country i

 $X_a^w$  : Total exporting value of goods a in the world

 $X_a^i$ : Export value of all exporting goods in the world

The numerator represents the percentage share of a given sector (or product) in national exports Xij is exports of sector (or product) i from country j. The denominator represents the percentage share of a given sector (or product) in total world exports. The RCA index, thus, contains a comparison of national export structure (the numerator) with the world export structure (the denominator). When RCA equals 1 for a given sector (or product) in a given country, the percentage share of that sector (or product) is identical with the world average. Where RCA is above 1 the country is said to have a comparative advantage (and specialized) in that sector (or product) and vice versa where RCA is below 1. Batra & Zeba (2005), in the study titeld "Revealed comparative adventageand analysis for India and China" The paper identified the pattern of revealed comparative advantage using the Balasa (1965) index for export data. The index has been calculated at the sector and commodity level of the Harmonized System of classification. The paper also analyses comparative advantage according to factor intensity. The analysis has showed broad similarities in the structure of comparative advantage for India and China. Both, India and China enjoy comparative advantage for labour and resource intensive sectors in the global market.

Shinoj & Mathur (2008) in their study entitled "Comparative Advantage of India in Agricultural Exports vis-ávis Asia: A Post-Reforms Analysis "has examined the changes in comparative advantage status of India's major agricultural exports with other Asian countries during in the period 1991-2004. They found India has been found losing out its comparative advantage in export of some of the agricultural commodities to other Asian competitors during the period after economic reforms. Therefore, in exports of certain commodities like cashew and oil meals, India has been able to maintain its comparative advantage, but several others like tea, coffee, spices, marine products, etc. have been negatively affected. Burange (2008) in their paper entitled " India's Revealed Comparative Advantage in Merchandise Trade", has assessed India's revealed comparative advantage (RCA) in merchandise trade. The study evaluated the structure of comparative advantage in India and the change in the scene over a 10-year period from 1996 to 2005. The paper has also evaluated India's RCA in exports and imports in different type of goods categorized on the basis of their production. As per the HS classification, India has enjoyied comparative advantage in the exports of labour-intensive items like textiles and scale-intensive items such as chemicals and iron and steel. Results suggest that India enjoys a comparative advantage in the exports of Ricardo and HO goods. PC goods in contrast have not displayed any improvement in the RCA universe. On the import front, it is essentially Ricardo goods where India enjoys comparative advantage. All production of goods requiring standard technology is shifting to developing economies like India as reflected in the absence of RCA in imports of HO goods (Sinate et al., 2012).

Fathipour & Ghahremanlou (2014), in the study titled " Economical-Regional Integration – An Overview on Iran-India Trade Relation" has stated that India and Iran trade relations were based on the comparative advantages of different economic capabilities and due to this principle an escalating prosperity and an increasing trade volume by trading with each other can be achieved. The trade relations between Iran and India have been assessed from 2001 to 2010. Their findings showed that mineral fuels form larger part of Indian imports from Iran and also India's exports to Iran include inorganic chemicals, articles of iron or steel, drugs and pharmaceuticals. The export's share in Indian has remarkably increased in the span of 1990-2014. India's share of world exports had increased from 0.5 % in 1990s and crossed 1.7% by 2014. The Rice, Spices,

(Pearls, precious and semi-precious stones) goods were outstanding exports goods. The first ranking of India's share of world exports is pertained to Rice good by 30,4 % in 2014 that it has dominated the top of the rank of Indian's export although its share has been 6,4 % in 1990. As the Appendix table 3 shows, in 2014 the Spices by 16.3 % share has placed in second position. Its share of export has been confronted with increase and was 7.7 % in 2011. The Third statue of Indian export relates to Pearls, precious and semi-precious stones goods. Its share of export has increased from 9,8 % in 1990 to 14,7 % in 2014. The Cereals and cereal preparations goods have had the 8 .1 % share of total export of Indian goods in 2014 as well. The most decrease of India's share of world exports is pertained to Tea and mate goods by 7.7 % in 2014 that it had domination the top of the rank of Indian's export in 1990 by 22.1 %.

In sum of 45 items of the Indian's prominent exports commodities, about 27 item by 60% have had RCA index more than one in 2014. This numeric criterion states the comparative advantage of export goods. This index has decreased from of 68 % in 2000 for Indian's exports commodities. According to calculation on the table4 during 1990-2014, among of India's exports commodity to world, items such as (Tea and mate), (Spices), (Rice), (Pearls, precious and semi-precious stones), (Textile yarn, fabrics, made-up articles), (Cereals and cereal preparations), (Leather, Leather manufactures and dressed fur skins), have had the most amount of RCA index .Some of commodity as (Medicinal and pharmaceutical products) and (Vegetables and fruits) (Iron ore and concentrates) has lost the comparative advantage along the years 1990-2014. In contrast, some of commodity as (Iron and steel), (Other transport equipment), (Meat and meat preparations), (Sugar, sugar preparations and honey) have gained the comparative advantage in the Indian's exports basket. Other commodity as (Chemical materials and products n.e.s.), (Machinery specialized for particular industries), (Road vehicles (including air cushion vehicles), (General industrial machinery & equipment & machine parts thereof), (Office machinery and ADP equipment), (Telecommunication and sound recording and reproducing apparatus and equipment) and etc., have not had the comparative advantage in comparison to other exports commodity in Indian's exports commodity. To sum up, as the Appendix table 4 reveal, since the 1990s, India has been gaining comparative advantage in a number of products within the groups of Food items, Textiles, Leather and other Manufactures that they are mainly related to agriculture sector. As Shinoj & Mathur (2008) have shown India had enjoyed a comparative advantage in agriculture exports. By definition, each country has a comparative advantage in some products, depending upon the opportunity cost of producing various products in different sectors. Thus, it seems there is a comparative advantage in a larger number of unskilled labor and low or medium technology-intensive products.

# 4. Summery and Conclusion

This study has analyzed comparative advantages of Indian's exports commodities. The analysis of results show India has strengthened its position in exports of agricultural products. Some goods , for instance (Tea and mate), (Spices), (Rice) were able to rank in the top postion of share export in the world but, as far as the exports of industrial manufacturing and capital goods are concerned, India could not improve to have a comparative advantage in the world in comparision with other countries espescially Asian countries such as China in manufacturing products. Our study in respect with other studies found out that India has well-known advantage in lots of commodities and goods such as food, agricultural items. albeit, it seems the plan and program must be considered toward export specialization such as high value-added knowledge and technology intensive industries instead of labor and natural resource intensive products.

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# Table 3: India's share in world export by commodity division and groups 1990-2014

Commodity         1990         2000         2010         2014           Meat and meat preparations         0.2         0.7         1.6         3.4           Fish, crustaceans and molluscs & preparations         0.6         1.5         3.3         8.1           Rice         0.6         1.5         3.3         8.1           Vegetables and fruits         0.8         1.3         1.3         1.4           Sugar, sugar preparations and honey         0.1         0.9         2.4         2.8           Coffee, tea, cocoa, spices and manufactures         4         3.4         2.8         3.0           Coffee and coffee substitutes         1.7         2.3         1.9         2.1           Tea and mate         22.1         14         10         7.7           Spices         7.7         10.3         15.4         16.3           Feeding stuff for animals         2.2         2.3         3.6         2.4           Tobacco and tobacco manufactures         0.8         0.7         2.5         2.2           Unmanufactured tobacco         0.3          0.7         0.9           Oilseeds and oleaginous fruit         0.8         1.7         1.6         2.2	Table 3: India's share in world export by commodity divisio	0			
Fish, crustaceans and molluscs & preparations       1.6       2.7       2.4       4.0         Cereals and cereal preparations       0.6       1.5       3.3       8.1         Rice       6.4       10.2       11.2       30.4         Vegetables and fruits       0.8       1.3       1.3       1.4         Sugar, sugar preparations and honey       0.1       0.9       2.4       2.8         Coffee, tea, cocoa, spices and manufactures       4       3.4       2.8       3.0         Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       1.4       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Iron ore and concentrates       7.6       3.9       5.9 <t< th=""><th>Commodity</th><th>1990</th><th>2000</th><th>2010</th><th>2014</th></t<>	Commodity	1990	2000	2010	2014
Cereals and cereal preparations       0.6       1.5       3.3       8.1         Rice       6.4       10.2       11.2       30.4         Vegetables and fruits       0.8       1.3       1.4         Sugar, sugar preparations and honey       0.1       0.9       2.4       2.8         Coffee, tea, cocoa, spices and manufactures       4       3.4       2.8       3.0         Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       1.4       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Ummanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.1       2.8       0.7         Iron ore and concentrates       7.6       3.9       5.9       0.7         Organic chemicals       0.3       1.1       2.3       2.8         Ino					
Rice       6.4       10.2       11.2       30.4         Vegetables and fruits       0.8       1.3       1.3       1.4         Sugar, sugar preparations and honey       0.1       0.9       2.4       2.8         Coffee ta, cocoa, spices and manufactures       4       3.4       2.8       3.0         Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       14       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Umanufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron or and concentrates       7.6       3.9       5.9       0.7         Organic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8					
Vegetables and fruits       0.8       1.3       1.4         Sugar, sugar preparations and honey       0.1       0.9       2.4       2.8         Coffee, tea, cocoa, spices and manufactures       4       3.4       2.8       3.0         Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       1.4       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Ummanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1.2       2.8       0.7         Organic chemicals       0.3       1.1       2.3       2.8         Inoroganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.2       1       1.2					
Sugar, sugar preparations and honey       0.1       0.9       2.4       2.8         Coffee, tea, cocoa, spices and manufactures       4       3.4       2.8       3.0         Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       14       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Unmanufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Matalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron ore and concentrates       7.6       3.9       5.9       0.7         Organic chemicals       0.2       0.3       1.1       0.9         Inorganic chemicals       0.2       0.3       1.1       0.9         Upeing, tanning and colouring materials       1.2       1.2       1       1.2         Essential oils and perfume materials scap, cleansing etc.       1.1       0.5 <td></td> <td></td> <td></td> <td></td> <td></td>					
Coffee, tea, coco, spices and manufactures       4       3.4       2.8       3.0         Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       1.4       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       3.3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Ummanufactured tobacco and refuse       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron ore and concentrates       7.6       3.9       5.9       0.7         Organic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1       1.2					
Coffee and coffee substitutes       1.7       2.3       1.9       2.1         Tea and mate       22.1       14       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Unmanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Organic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1.2       1.2         Essential oils and perfume materials coap, cleansing etc.       1.1       0.5 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Tea and mate       22.1       14       10       7.7         Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Unmanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron ore and concentrates       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1       1.2         Essential oils and perfume materials colus cleasing etc.       1.1       0.5       0.9       1.2         Artificial resins, plastic materials, cellulose esters & ethers        0.1       0.8       0.9         Chemical materials and products n	Coffee, tea, cocoa, spices and manufactures				
Spices       7.7       10.3       15.4       16.3         Feeding stuff for animals       2.2       2.3       3.6       2.4         Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Unmanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron ore and concentrates       7.6       3.9       5.9       0.7         Organic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1.2       1.2         Essential oils and perfume materials soap, cleansing etc.       1.1       0.5       0.9       1.2         Artificial resins, plastic materials, cellulose esters & ethers        0.1       0.8       0.9         Chemical materials and p	Coffee and coffee substitutes			1.9	
Feeding stuff for animals2.22.33.62.4Tobacco and tobacco manufactures0.80.72.52.2Unmanufactured tobacco and refuse2.12.76.65.7Manufactured tobacco0.30.70.9Oilseeds and oleaginous fruit0.81.71.62.2Metalliferous ores and metal scrap2.112.80.7Iron ore and concentrates7.63.95.90.7Organic chemicals0.31.12.32.8Inorganic chemicals0.20.31.10.9Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.51.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.00.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles3.74.93.75.8Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.31.217.414.7Iron and steel0.31.217.	Tea and mate		14	10	7.7
Tobacco and tobacco manufactures       0.8       0.7       2.5       2.2         Unmanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron ore and concentrates       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1       1.2         Essential oils and perfume materials soap, cleansing etc.       1.1       0.5       0.9       1.2         Artificial resins, plastic materials, cellulose esters & ethers        0.1       0.8       0.9         Chemical materials and products n.e.s.       0.2       0.7       1.2       1.5         Leather       4.8       2.3       3.4       5.0         Manufactures of leather or of composition leather       13.4       6.2       4.2       5.4	Spices		10.3	15.4	16.3
Unmanufactured tobacco and refuse       2.1       2.7       6.6       5.7         Manufactured tobacco       0.3        0.7       0.9         Oilseeds and oleaginous fruit       0.8       1.7       1.6       2.2         Metalliferous ores and metal scrap       2.1       1       2.8       0.7         Iron ore and concentrates       7.6       3.9       5.9       0.7         Organic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1       1.2         Essential oils and perfume materials soap, cleansing etc.       1.1       0.5       0.9       1.2         Artificial resins, plastic materials, cellulose esters & ethers        0.1       0.8       0.9         Chemical materials and products n.e.s.       0.2       0.7       1.2       1.5         Leather, leather manufactures derssed fur skins       6.3       3.3       3.4       5.0         Manufactures of leather or of composition leather       13.4       6.2       4.2	Feeding stuff for animals	2.2	2.3	3.6	2.4
Manufactured tobacco0.30.70.9Oilseeds and oleaginous fruit0.81.71.62.2Metalliferous ores and metal scrap2.112.80.7Iron ore and concentrates7.63.95.90.7Organic chemicals0.31.12.32.8Inorganic chemicals0.20.31.10.9Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles3.74.93.75.8Woven fabrics of manmade fibres0.31.74.53.0Pearls, precious and semi-precious stones9.81.217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Tobacco and tobacco manufactures	0.8	0.7	2.5	2.2
Oilseeds and oleaginous fruit0.81.71.62.2Metalliferous ores and metal scrap2.112.80.7Iron ore and concentrates7.63.95.90.7Organic chemicals0.31.12.32.8Inorganic chemicals0.20.31.10.9Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather1.3.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Unmanufactured tobacco and refuse	2.1	2.7	6.6	5.7
Metalliferous ores and metal scrap2.112.80.7Iron ore and concentrates7.63.95.90.7Organic chemicals0.31.12.32.8Inorganic chemicals0.20.31.10.9Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Manufactured tobacco	0.3		0.7	0.9
Iron ore and concentrates7.63.95.90.7Organic chemicals0.31.12.32.8Inorganic chemicals0.20.31.10.9Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.51.4Manufactures of metals n.e.s.0.50.91.42.0	Oilseeds and oleaginous fruit	0.8	1.7	1.6	2.2
Organic chemicals       0.3       1.1       2.3       2.8         Inorganic chemicals       0.2       0.3       1.1       0.9         Dyeing, tanning and colouring materials       1.2       1.4       2.4       3.8         Medicinal and pharmaceutical products       1.2       1.2       1       1.2         Essential oils and perfume materials soap, cleansing etc.       1.1       0.5       0.9       1.2         Artificial resins, plastic materials, cellulose esters & ethers        0.1       0.8       0.9         Chemical materials and products n.e.s.       0.2       0.7       1.2       1.5         Leather, leather manufactures & dressed fur skins       6.3       3.3       3.3       4.7         Leather       4.8       2.3       3.4       5.0         Manufactures of leather or of composition leather       13.4       6.2       4.2       5.4         Fur skins, tanned or dressed etc.         0       0.0         Textile yarn, fabrics, made-up articles       2.1       3.6       5       5.7         Woven cotton fabrics       3.7       4.9       3.7       5.8         Woven fabrics of manmade fibres       0.7       1.6       5.5       4.5 <td>Metalliferous ores and metal scrap</td> <td>2.1</td> <td>1</td> <td>2.8</td> <td>0.7</td>	Metalliferous ores and metal scrap	2.1	1	2.8	0.7
Inorganic chemicals0.20.31.10.9Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Iron ore and concentrates	7.6	3.9	5.9	0.7
Dyeing, tanning and colouring materials1.21.42.43.8Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.51.4Manufactures of metals n.e.s.0.50.91.42.0	Organic chemicals	0.3	1.1	2.3	2.8
Medicinal and pharmaceutical products1.21.211.2Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Inorganic chemicals	0.2	0.3	1.1	0.9
Essential oils and perfume materials soap, cleansing etc.1.10.50.91.2Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.51.4Manufactures of metals n.e.s.0.50.91.42.0	Dyeing, tanning and colouring materials	1.2	1.4	2.4	3.8
Artificial resins, plastic materials, cellulose esters & ethers0.10.80.9Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Medicinal and pharmaceutical products	1.2	1.2	1	1.2
Chemical materials and products n.e.s.0.20.71.21.5Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.52.5Manufactures of metals n.e.s.0.50.91.42.0	Essential oils and perfume materials soap, cleansing etc.	1.1	0.5	0.9	1.2
Leather, leather manufactures & dressed fur skins6.33.33.34.7Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Artificial resins, plastic materials, cellulose esters & ethers		0.1	0.8	0.9
Leather4.82.33.45.0Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Chemical materials and products n.e.s.	0.2	0.7	1.2	1.5
Manufactures of leather or of composition leather13.46.24.25.4Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Leather, leather manufactures & dressed fur skins	6.3	3.3	3.3	4.7
Fur skins, tanned or dressed etc00.0Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Leather	4.8	2.3	3.4	5.0
Textile yarn, fabrics, made-up articles2.13.655.7Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Manufactures of leather or of composition leather	13.4	6.2	4.2	5.4
Woven cotton fabrics3.74.93.75.8Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Fur skins, tanned or dressed etc.			0	0.0
Woven fabrics of manmade fibres0.71.65.54.5Woven fabrics other than of cotton or man-made fibres2.33.95.23.0Pearls, precious and semi-precious stones9.81217.414.7Iron and steel0.312.52.5Manufactures of metals n.e.s.0.50.91.42.0	Textile yarn, fabrics, made-up articles	2.1	3.6	5	5.7
Woven fabrics other than of cotton or man-made fibres       2.3       3.9       5.2       3.0         Pearls, precious and semi-precious stones       9.8       12       17.4       14.7         Iron and steel       0.3       1       2.5       2.5         Manufactures of metals n.e.s.       0.5       0.9       1.4       2.0	Woven cotton fabrics	3.7	4.9	3.7	5.8
Pearls, precious and semi-precious stones       9.8       12       17.4       14.7         Iron and steel       0.3       1       2.5       2.5         Manufactures of metals n.e.s.       0.5       0.9       1.4       2.0	Woven fabrics of manmade fibres	0.7	1.6	5.5	4.5
Iron and steel       0.3       1       2.5       2.5         Manufactures of metals n.e.s.       0.5       0.9       1.4       2.0	Woven fabrics other than of cotton or man-made fibres	2.3	3.9	5.2	3.0
Iron and steel       0.3       1       2.5       2.5         Manufactures of metals n.e.s.       0.5       0.9       1.4       2.0	Pearls, precious and semi-precious stones	9.8	12	17.4	14.7
		0.3	1	2.5	2.5
Power-generating machinery & equipment 0.2 0.1 0.7 1.0	Manufactures of metals n.e.s.	0.5	0.9	1.4	2.0
	Power-generating machinery & equipment	0.2	0.1	0.7	1.0

Machinery specialized for particular industries Metal-working machinery	0.2 0.2	0.2 0.3	0.6 0.5	1.0 0.6
General industrial machinery & equipment & machine parts thereof	0.1		0.7	0.9
Office machinery and ADP equipment	0.1		0.1	0.1
Telecommunication and sound recording and reproducing apparatus and equipment			0.4	0.3
Electrical machinery, apparatus and appliances	0.1		0.4	0.4
Road vehicles (including air cushion vehicles)	0.1	0.1	0.8	1.0
Other transport equipment			1.7	3.0
Articles of apparel and clothing accessories	2.3	3.5	3	3.5
Total Exports	0.5	0.7	1.5	1.7

source: Economic survey census years (Statistical Appendix)

# Table 4: Comparative advantage index for each of Indian's exports commodity 1990-2014

Table 1. comparative auvantage maex for each of ma	un 5 expo	to comm	iouncy 17	<u> </u>
Commodity	1990	2000	2010	2014
Meat and meat preparations	0.41	1.09	1.10	1.96
Fish, crustaceans and molluscs & preparations	2.89	4.12	1.60	2.32
Cereals and cereal preparations	1.15	2.20	2.25	4.75
Rice	11.58	15.36	7.58	17.77
Vegetables and fruits	1.45	1.89	0.88	0.83
Sugar, sugar preparations and honey	0.27	1.28	1.60	1.62
Coffee, tea, cocoa, spices and manufactures	7.26	5.15	1.88	1.77
Coffee and coffee substitutes	3.11	3.44	1.29	1.25
Tea and mate	40.20	21.02	6.77	4.51
Spices	14.03	15.46	10.46	9.51
Feeding stuff for animals	3.92	3.48	2.43	1.41
Tobacco and tobacco manufactures	1.48	1.02	1.66	1.30
Unmanufactured tobacco and refuse	3.76	4.01	4.47	3.35
Manufactured tobacco	0.56	0.00	0.45	0.51
Oilseeds and oleaginous fruit	1.44	2.55	1.10	1.27
Metalliferous ores and metal scrap	3.84	1.55	1.92	0.40
Iron ore and concentrates	13.75	5.92	4.02	0.44
Organic chemicals	0.60	1.67	1.56	1.64
Inorganic chemicals	0.41	0.45	0.71	0.53
Dyeing, tanning and colouring materials	2.13	2.12	1.63	2.20
Medicinal and pharmaceutical products	2.18	1.76	0.68	0.69
Essential oils and perfume materials soap, cleansing	2.08	0.73	0.64	0.70
etc.				
Artificial resins, plastic materials, cellulose esters &	0.08	0.21	0.57	0.55
ethers	0.44	1.0.4	0.02	0.00
Chemical materials and products n.e.s.	0.41	1.04	0.83	0.88
Leather, leather manufactures & dressed fur skins	11.45	4.98	2.20	2.73
Leather	8.76	3.53	2.27	2.90
Manufactures of leather or of composition leather	24.44	9.28	2.84	3.13
Fur skins, tanned or dressed etc.	0.00	0.00	0.00	0.00
Textile yarn, fabrics, made-up articles	3.78	5.39	3.35	3.34
Woven cotton fabrics	6.68	7.42	2.50	3.38
Woven fabrics of man made fibres	1.29	2.37	3.72	2.65
Woven fabrics other than of cotton or man-made fibres	4.19	5.91	3.54	1.75
Pearls, precious and semi-precious stones	17.89	18.02	11.79	8.59
Iron and steel	0.48	1.53	1.72	1.44

Manufactures of metals n.e.s.	0.94	1.40	0.94	1.16	
Power-generating machinery & equipment	0.28	0.21	0.48	0.57	
Machinery specialized for particular industries	0.36	0.31	0.41	0.58	
Metal-working machinery	0.34	0.43	0.37	0.33	
General industrial machinery & equipment & machine		0.05	0.50	0.52	
parts thereof					
Office machinery and ADP equipment	0.16	0.00	0.07	0.05	
Telecommunication and sound recording and	0.06	0.00	0.26	0.16	
reproducing apparatus and equipment					
Electrical machinery, apparatus and appliances	0.24	0.02	0.30	0.24	
Road vehicles (including air cushion vehicles)	0.20	0.10	0.56	0.58	
Other transport equipment	0.03	0.05	1.18	1.78	
Articles of apparel and clothing accessories	4.26	5.30	2.06	2.07	
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Source: The researchers' calculation