



GLASS AND GLASS WARE EXPORT PERFORMANCE IN INDIA

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Abstract:

Exports have played an increasingly important role in India's economic growth in the last two decades. This paper analyses the performance of India's exports and the various economic factors which have contributed to its growth. Since manufactured exports comprise a significant share of India's aggregate (merchandise) exports, the paper also provides an overview study on the export performance of various products in glass and glassware. Main objective of study is to analysis the export performance of various products in glass and glassware from India during the period of 2010-11 to 2021-22. The study makes use of statistical techniques such as percentage analysis, growth analysis, average, standard deviation, AAGR and CAGR in analysing the data for finding the result.

Key Words: Glass and Glassware, Export Data, Percentage Analysis

Introduction:

Glass and Glassware is traded all around the world. The data provided on the export analysis shows that there are almost 99 countries and territories, which actively import Glass and Glassware from India. The combined value of total export is 82.3 USD million. Therefore, if any exporter wishes to export Glass and Glassware then Connect2India offers a complete guide on how to export Glass and Glassware from India. The following data contains everything from Glass and Glassware export analysis to export resources. The top five countries to export Glass and Glassware from India

From the perspective of the data on Glass and Glassware export, India's top 5 trade partners who import Glass and Glassware from Indian exporters are mentioned in the table, although the total export value of the top 5 countries is 79.56 USD million which is the 96.67% of the total export value of Glass and Glassware. Indian glass industry is growing due to the rising interest for glass from the beverage sector, real-estate and the infrastructure. The huge growth in glass consumption has been driven by fast expanding automotive and construction sectors. Earlier, glassmakers in India could not have asked for more. The recent years have shown the best of times in the industry's history. The growth in glass industry of India is led by container glass segment which represents the larger part of the volume. The glassware products are still produced by small scale and mid-size companies majorly.

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The stricter regulations are required to import export glassware products, the glass packaging continues to face fierce competition from other types of packaging in India. Some packaging issues include load ability, breakages and unit cost. However, it needs to develop more light weight bottles and improve the durability of finished products. In global import export business of glass & glassware, India rank 22nd in exports and 17th in imports. Let's take a look at India import export statistics of glass & glassware products.

Statement of the Problem:

The glass industry faces a number of challenges continued price competition and growing labour shortages, lack of capacity and increasing pressure to innovate. The biggest challenges however is to reconcile all of this. However the solution is easy if you are open to fundamental challenges in the production process. With the conversion from a production line with individual processing stations to an integrated production line, this fundamental change can be implemented relatively easily. The further reduction of manual activities, progress in productivity and higher throughput, quality improvement and future security even in the age of Industry 4.0 – all this is part of such a solution and thus the answer to current and future challenges.

Objectives:

The research aims at enriching the knowledge understanding role of export performance of glass and glass ware. The following are the objective of the study.

- To study about the exporting performances of Glass and Glass ware products in India.
- To provide necessary suggestion based on the findings of the study.

Scope of the Study:

The objective of this project is to cover the export performance of glass and glass ware from India. The export performance of India's glass and glass ware is affected by high competition. This study also gives growth rate and trend percentage of glass and glass ware for the year by year wise and also country wise. The study gives information about the glass and glass ware export. The study provides suggestions to improve their performance.

Research Methodology:

Secondary Data:

The secondary data is collected to supplement the primary data. The annual reports of sample units, Publications of Cotton products, in the website of Ministry of Commerce and Industries, Bulletins Working and Occasional Papers of EXIM Bank were used as important sources of secondary data for the study.

Limitations of the Study:

- The analysis is made only by considering glass and glass ware
- Time constraint is one of the limited.

Review of Literature:

BK. JW, P. K, and W. W., (2000) the production methods and properties of metal matrix composite materials reinforced with dispersion particles, platelets, non-continuous (short) and continuous (long) fibres are discussed in this paper. The most widely applied methods for the production of composite materials and composite parts are based on casting techniques such as the squeeze casting of porous ceramic performs with liquid metal alloys and powder metallurgy methods.

D. B. Miracle, (2005)Over the past two decades – a period coinciding with publication of Composites Science and Technology – metal matrix composites (MMCs) have been transformed from a topic of scientific and intellectual interest to a material of broad technological and commercial significance.

F. J. McGarry, (1999) Durability of glass-fibre/polymer composites is dictated by the durability of the components: glass fibre, matrix, and the interface. Environmental attack by moisture, for example, can degrade the strength of the glass fibre; plasticize, swell, or micro cracks the resin; and degrades the fibres/ matrix interface by either chemical or mechanical attack.

Exporting of Glass and Glassware:

Table 1

* Values in USD

Year	Scope of Glass 7001	Growth Rate	Glass In Balls 7002	Growth Rate	Cast Glass 7003	Growth Rate	Drawn Glass 7004	Growth Rate	Float Glass 7005	Growth Rate	Safety Glass 7007	Growth Rate
2009-10	0.53		8.91		0.52		2.83		26.67		17.52	
2010-11	0.96	81.13	7.05	-20.88	4.04	676.9	1.9	-32.86	25.29	-5.17	17.77	1.43
2011-12	2.13	121.9	11.64	65.11	5.34	32.18	0.72	-62.11	29.18	15.38	19.82	11.54
2012-13	0.21	-90.14	14.02	20.45	1.82	-65.92	0.66	-8.33	41.29	41.5	15.37	-22.45
2013-14	0.28	33.33	10.17	-27.46	1.51	-17.03	0.6	-9.09	44.04	6.66	23.43	52.44
2014-15	0.32	14.29	12.33	21.24	1.12	-25.83	1.3	116.7	47.61	8.11	23.26	-0.73
2015-16	0.56	75	14.65	18.82	1.24	10.71	1.59	22.31	33.22	-30.22	26.91	15.69
2016-17	0.48	-14.29	7.6	-48.12	2.34	88.71	1.71	7.55	33.03	-0.57	25.62	-4.79
2017-18	0.53	10.42	5.74	-24.47	1.19	-49.15	2.51	46.78	34.23	3.63	39.93	55.85
2018-19	0.71	33.96	6.21	8.19	0.95	-20.17	2.51	0	73.47	114.6	122.3	206.2
2019-20	0.77	8.45	13.98	125.1	1.18	24.21	1.97	-21.51	56.9	-22.55	57.48	-52.98
2020-21	0.66	-14.29	33.4	138.9	1.35	14.41	1.88	-4.57	47.19	-17.07	45.18	-21.4
2021-22	0.86	30.3	35.8	7.19	2.55	88.89	2.48	31.91	55.53	17.67	55.14	22.05
AAGR	24.17			23.67		63.16		7.229		11		21.9
CAGR	-0.04			-0.109		-0.124		0.011		-0.059		-0.091

(Source in- Exim data bank-Ministry of commerce)

Interpretation:

The above indicates the value of the products of scope of glass (7001) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 3 then the balance of 9 years of positive value. The annual average growth rate refers the value of 24.171. Then the compound annual growth rate refers to the value of -0.0395. The above indicates the value of the products of glass in balls (7002) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 4 then the balance of 8 years of positive value. The annual average growth rate refers the value of 23.674. Then the compound annual growth rate refers to the value of -0.1094. The above indicates the value of the products of cast glass (7003) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 5 then the balance of 7 years of positive value. The annual average growth rate refers the value of 63.162. Then

the compound annual growth rate refers to the value of -0.1241. The above indicates the value of the products of drawn glass (7004) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 6 then the balance of 6 years of positive value. The annual average growth rate refers the value of 7.229. Then the compound annual growth rate refers to the value of 0.0111. The above indicates the value of the products of float glass (7005) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 5 then the balance of 7 years of positive value. The annual average growth rate refers the value of 11.000. Then the compound annual growth rate refers to the value of -0.0593. The above indicates the value of the products of safety glass (7007) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 5 then the balance of 7 years of positive value. The annual average growth rate refers the value of 21.900. Then the compound annual growth rate refers to the value of -0.0911.

Exporting of Glass and Glassware:

Table 2

* Values in USD

Year	Units of Glass 7008	Growth Rate	Glass Mirrors 7009	Growth Rate	Closures of Glass 7010	Growth Rate	Glass Envelopes 7011	Growth Rate	Similar Purposes 7013	Growth Rate	Signalling Glass ware 7014	Growth Rate
2009-10	0.98		8.36		101.2		50.48		6.65		0.08	
2010-11	0.93	-5.1	13.37	59.93	109.3	8.05	56.21	11.35	8.54	28.42	0.14	75
2011-12	1.87	101.1	20.09	50.26	141.8	29.75	83.12	47.87	11.64	36.3	0.16	14.29
2012-13	2.34	25.13	22.88	13.89	171.7	21.07	63.36	-23.77	10.08	-13.4	1.12	600
2013-14	2.12	-9.4	28.35	23.91	170.8	-0.55	62.24	-1.77	11.49	13.99	11.84	957.1
2014-15	3.23	52.36	26.71	-5.78	195.2	14.3	46.4	-25.45	11.14	-3.05	13.44	13.51
2015-16	4.58	41.8	28.1	5.2	209.3	7.21	29.76	-35.86	11.75	5.48	16.99	26.41
2016-17	5.14	12.23	32.7	16.37	191.9	-8.3	21.5	-27.76	14.44	22.89	18.11	6.59
2017-18	5.99	16.54	39.2	19.88	232.8	21.33	5.1	-76.28	17.41	20.57	9.91	-45.28
2018-19	8.97	49.75	44.26	12.91	241.1	3.54	2.68	-47.45	45.52	161.5	13.14	32.59
2019-20	8.48	-5.46	52.89	19.5	233.3	-3.21	1.93	-27.99	24.51	-46.16	12.95	-1.45
2020-21	6.59	-22.29	65.91	24.62	246.2	5.51	2.04	5.7	25.38	3.55	8.13	-37.22
2021-22	7.21	9.41	82.48	25.14	284.9	15.73	1.32	-35.29	30.77	21.24	0.2	-97.54
AAGR		22.17		22.15		9.535		-19.72		20.94		128.7
CAGR		-0.153		-0.174		-0.083		0.355		-0.12		-0.074

Interpretation:

The above indicates the value of the products of units of glass (7008) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 4 then the balance of 8 years of positive value. The annual average growth rate refers the value of 22.169. Then the compound annual growth rate refers to the value of -0.1532. The above indicates the value of the products of glass mirrors (7009) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 1 then the balance of 11 years of positive value. The annual average growth rate refers the value of 22.151. Then the compound annual growth rate refers to the value of -0.1737. The above indicates the value of the products of closures of glasses (7010) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 3 then the balance of 9 years of positive value. The annual average growth rate refers the value of 9.535. Then the compound annual growth rate refers to the value of -0.0827. The above indicates the value of the products of drawn glass envelopes (7011) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 9 then the balance of 3 years of positive value. The annual average growth rate refers the value of -19.724. Then the compound annual growth rate refers to the value of 0.3548. The above indicates the value of the products of similar purposes (7012) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 3 then the balance of 9 years of positive value. The annual average growth rate refers the value of 20.941. Then the compound annual growth rate refers to the value of -0.1198. The above indicates the value of the products of signalling glass ware (7014) from the year of 2009-2022. The table shows the growth rate which has the both of negative and positive value of the products which means the 4 then the balance of 8 years of positive value. The annual average growth rate refers the value of 128.671. Then the compound annual growth rate refers to the value of -0.0735.

Findings:

- The Scope of Glass (7001) annual average growth rate is 24.171. The compound annual growth rate is negative value -0.0395
- The glass in balls (7002) annual average growth rate is 23.674. The compound annual growth rate is negative value -0.1094

- The cast glass (7003) annual average growth rate is 63.162. The compound annual growth rate is negative value -0.1241
- The drawn glass (7004) annual average growth rate is 7.229. The compound annual growth rate is positive value 0.0111
- The float glass (7005) annual average growth rate is 11.000. The compound annual growth rate is negative value -0.0593
- The safety glass (7007) annual average growth rate is 21.900. The compound annual growth rate is negative value -0.0911
- The units of glass (7008) annual average growth rate are 22.169. The compound annual growth rate is negative value -0.1532
- The glass mirrors (7009) annual average growth rate is 22.151. The compound annual growth rate is negative value -0.1737
- The closures of glass (7010) annual average growth rate are 9.535. The compound annual growth rate is negative value -0.0827
- The glass envelopes (7011) annual average growth rate is -19.724. The compound annual growth rate is positive value 0.3548
- The similar purposes (7013) annual average growth rate is 20.941. The compound annual growth rate is negative value -0.1198
- The signalling glassware (7014) annual average growth rate is 128.671. the compound annual growth rate is negative value -0.0735

Suggestions:

- This post explains export process of Glass and glass were exports and the government rules to export Glass and glass products, different precautions to be taken care to export them, export documentation to export Glass and glass products.
- The government and exports are mainly focus on this product, when this product is a major product of beauty was.
- The government to provide extra some subsidies and incentives for these exporters. The Glass and glass product has most demanded product in foreign market.

Conclusion:

In this case the Glass and glass product export will study. To know about the India's Glass and glass production states and study about the exporting data. This study will using the methodology of secondary data, that data are collected in ministry of commerce and industries web page. To using some statics formulas of growth rate, annual average growth rate, compound annual growth rate. And some literature reviews are collected when to know about the trends and this products value range. This study has to been know about the Glass and glass product's various verities are exporting values, it will be make details of products foreign demands. When the exporting is a more profitable business comparing to the domestics business. In this case to find out the major analysis of growth rate, annual average growth rate and compound annual growth rate. This case to using the thirteen years of export data will used that data are making a positive and negative results will there. Most of products will make a many negative growth rates, it will be makes a future analysis of decrease the growth but the demand will be a standard. So, these of above things are studied in this component.

References:

1. G. Lagaly, "Interaction of alkylamines with different types of layered compounds," *Solid State Ionics*, vol. 22, pp. 43–51.
2. M. Alexandre and P. Dubois, "Polymer- Layered Silicate Nanocomposites: Preparation, Properties and Uses of a New Class of Materials," *Mater. Sci. Eng.*, vol. 28, no. March, pp. 1–63, 2000.
3. A.K. Dhingra, "Metals Replacement by Composites," *J. Miner. Met. Mater. Soc.*, vol. 38, no. 3, p. 17, 1986.
4. R. Mehrabian, R. G. Riek, and M. Lemings, "Preparation and casting of metal-particulate non-metal composites," *Metall. Trans.*, vol. 5, no. 8, pp. 1899–1905, 1974.
5. J. Eliasson and R. Sandström, "Applications of aluminium matrix composites," *Key Eng. Mater.*, vol. 104, pp. 3–36, 1995.