

# OVERVIEW OF INDIAN GLASS INDUSTRY

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# History of Glass in India

- It is said that glass was discovered by the Syrians 5000-7000 years ago, reaching Egypt and then to Rome, from where it spread across the world.
- Historically, Firozabad is popularly known as the “Glass City of India”, where it started back by 17<sup>th</sup> century and remained cottage industry till the 20<sup>th</sup> century.
- The first glass plant was set up in august 1908 by Lokmanya Balgangadhar Tilak at Talegaon, Maharashtra.



# Types of Glass Manufactured in India

- Flat Glass
- Container Glass
- Fiber Glass
- Tableware Glass
- Ornamental Glass
- Scientific / Newgeneration Glass



# Flat Glass Overview

- The glass which is flat in shape and in sheet form is regarded as flat glass.
- Types of flat glass
  - Float Glass
  - Patterned / Figured Glass
  - Sheet Glass



# Float Glass

Architectural Glass



Automotive Glass



Interior Glass



Prominent Manufacturers of Float Glass In India

Saint Gobain, Asahi India Glass, Gold Plus, Sisecam and Gujarat Guardian

Combined they have a capacity of 7500 TPD and projected to have 10000 TPD in coming 2 years.



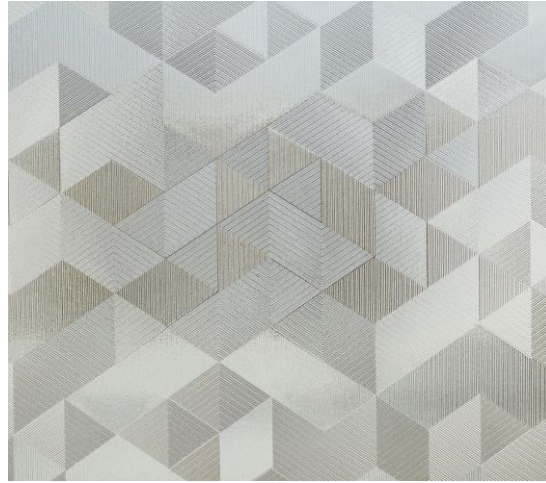
# Patterned / Figured Glass



- It is a rolled glass wherein the glass is passed through two rollers which either are flat/plain or are having design.



Patterned Glass Partition



Diamond Square Design



Wired Glass



Solar Patterned Glass

## Prominent Patterned Glass Manufacturer

Gopal Glass, Gobind Glass, Triveni Glass, Sumangal Glass

## Solar Glass Manufacturer

Borosil Renewables Ltd

(Upcoming manufacturing plant – Gobind Glass, Triveni Renewables, Vishakha Renewables )



# Container Glass

It caters to food, beverages, pharmaceutical and cosmetic packaging



Prominent Container glass manufacturers

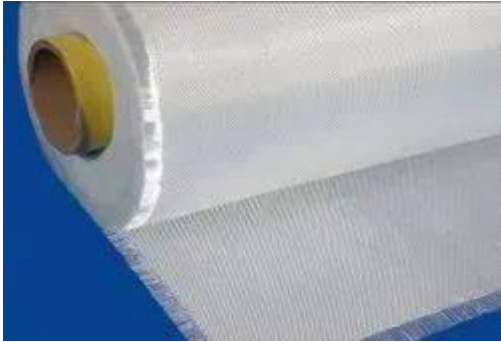
HNG, AGI, Canpack, Piramal, Sunrise, Haldyn, Pragati, Gerresheimer, Vitrum and Firozabad Cluster

The combined capacity is 12000 TPD and additional 1000 are planned in 2/3 years.





# Fibre Glass and Tableware Glass



UP Twiga and other manufacturers produce fibre glass



La Opala, Borosil and Cello are prominently manufacturing tableware glass





# Ornamental Glass and Laboratory glass



Firozabad Cluster



Borosil and Schot Glass



# Glass Industry outlook

- Per capita float glass consumption in India is less than 2 kg whereas in the developed world it ranges between 6 to 10 kg
- Per capita container glass consumption in India is 2.5 kg whereas in developed world it is 25 kg
- The Indian solar glass industry is growing by 3 times in coming year
- India is a hub for the glass vial industry



# Key take aways for students

- India is the shining star in the world right now and with Prime Ministers Atmanirbhar Call, the country is taking giant steps.
- Glass industry is very energy and capital intensive industry, with immense opportunity ahead.
- Its highly technical and collaborative industry and being continuous process asks for critical attention.

TO BE IN THIS INDUSTRY ONE MUST HAVE SHEAR PASSION AND  
PERSEVERANCE TO BE HIGHLY SUCCESSFULL

# THANK YOU

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