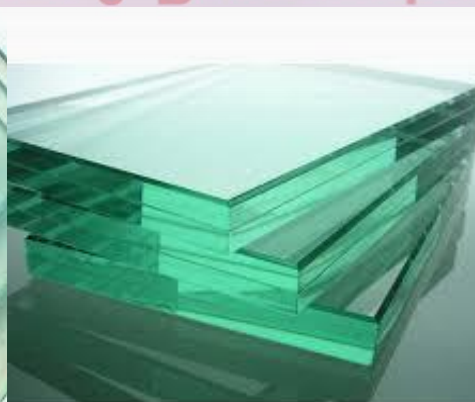
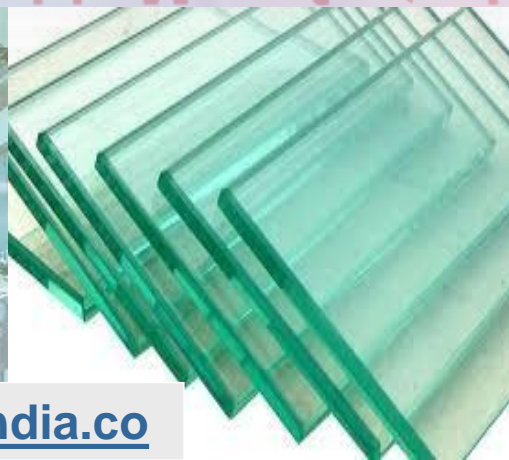


Set up an Industry of

Toughened Glass

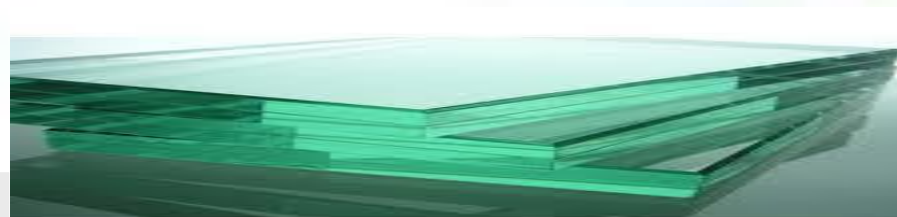
Best Profitable Manufacturing & Processing Business

Best Profitable Manufacturing & Processing Business

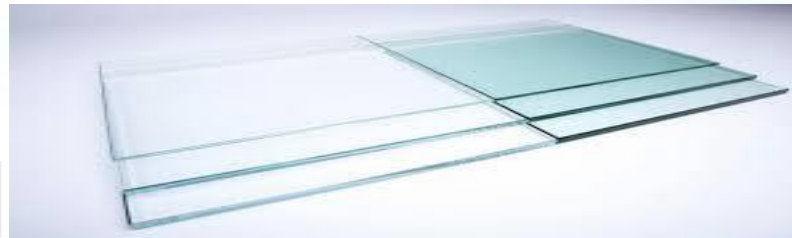


Introduction

Toughened Safety Glass is a specific form of glass that has been strengthened by chemical treatment and various thermal practices. Toughened glass has a sheet diameter of 4 to 12 mm, according to the manufacturer. Tempered glass is another name for this type of glass. Refrigerator trays, architectural doors, shower doors, passenger vehicle windows, and tables are only a few of the applications it has.



Toughened glass is both mechanically and thermally solid, with studies indicating that it can withstand surface stress of at least 10,000 pounds per square inch, making it a safety glass. They're also three times stronger than heat-strengthened glass and four to five times stronger than annealed glass. Since these glasses are tough, they are less likely to be damaged if they come into contact with a natural disaster.



Toughened glass, also known as tempered glass or safety glass, is a tough and durable member of the glass family. Toughened glass is a material that is highly adaptable and versatile, allowing you to customize it to your specific needs and specifications. Toughened glass is now available in a variety of designs, making it the perfect option for all of your modern interior environments.

Toughened glass is commonly used for balcony doors, windows, facades, shower doors, bathroom doors, exhibition areas, and exhibits, among other applications. Tempered glass is used to make doors and windows for high-end industrial structures. Toughen glass is also used in construction projects. Toughened glass is used for frameless shower doors, glass shelves, and large fixed windows.



Uses of Toughened glass

Toughened glass is commonly used for balcony doors, windows, facades, shower doors, bathroom doors, exhibition areas, and exhibits, among other applications. Tempered glass is used to make doors and windows for high-end industrial structures. Toughened glass is also used in construction projects. Toughened glass is used for frameless shower doors, glass shelves, and large fixed windows. Toughened glass is used in conjunction with a variety of frame materials.

Toughened glass is seldom framed, and frameless glass is often used in building. In today's industrial buildings, schools, and housing projects, frameless toughened doors and frameless sliding glass doors are popular. Toughened glass is commonly used in automobile window panes, house windows, furniture, and building interior operations. Toughened glass is used in conjunction with a variety of frame materials. Toughened glass is seldom framed, and frameless glass is often used in building.

In today's industrial buildings, schools, and housing projects, frameless toughened doors and frameless sliding glass doors are popular. Glass is a flexible material that has been used in the construction industry since the dawn of time. When high wind loads or thermal stresses are applied, however, it fails. Toughened or tempered glass is used in these situations. Toughened glass is a form of glass that has been processed to increase its tensile strength.



Manufacturing Process

Tempered glass, also known as toughened glass, is four times as solid as ordinary annealed glass. Tempered glass is made by heating a silica mixture to 600°C and then cooling the molten silica rapidly. Tempering, also known as toughening, is a process that involves heating glass to extremely high temperatures in order to strengthen it and make it more resistant to breakage.



When the glass is broken, it crumbles into tiny granular chunks rather than breaking into sharp, jagged pieces thanks to this mechanism, which balances the product's internal stresses. As compared to annealed glass, tempered glass is made by chemical treatment or regulated thermal processes to improve its strength. Shower doors, passenger vehicle windows, refrigerator trays, and architectural doors and tables are all examples of where the commodity is used.

The glass surfaces are heated in a furnace during the toughening process. The glass reaches temperatures of over 600°C when heated to the recommended temperatures. After that, the hot glass is quickly cooled by a blast of air that lasts between 3 and 10 seconds. As a consequence, the surfaces shrink, and tensile stresses form on the surfaces (at first). The majority of the glass contracts as it cools.



Tempering, a method in which ordinary glass is heated to a temperature of about 620°C for a period of time before being abruptly cooled with cold air jets, is used to make most toughened glass or safety glass. The outside of the glass is compressed as a result of this operation, while the inside remains free to float for a period of time (creating tension on the inside). The higher the glass's thermal expansion and lower its thermal conductivity, the higher the degree of residue stresses, and as a result, the stronger the resulting glass would be.

The Global Toughened Glass Consumption Market has been rising at a faster rate with strong growth rates over the last few years, and it is expected to expand significantly in the future. The demand for toughened glass is one of the markets in which investors have shown a lot of interest. The global Tempered Glass Market is partially consolidated, with a few major players controlling a sizable portion of the market. The demand is driven by the increased use of tempered glass in the automotive and construction industries.

Single, double, and triple pane tempered glass are available. Its application scope in the greenhouse sector is expanding, as it provides four to six times more shatter resistance than annealed varieties, which should boost tempered glass demand. Increased public awareness of energy-efficient and environmentally friendly construction would also aid the industry's development. Any glass that has been reheated and treated to the point where it is tenacious enough to withstand any collision is referred to as tempered glass.

As a result, this material is widely used to ensure the protection of a structure, unit, or system. The tempered glass market is expected to expand at a CAGR of 4.95 percent over the forecast period of 2019-2025. This represents a significant increase over its global market sales of \$41 billion in 2018. Construction application, which dominates the industry in terms of sales, has seen considerable growth in the Tempered Glass market.

Key Players

- **Asahi India Glass Ltd.**
- **Atul Glass Inds. Ltd.**
- **Bhagwati Projects Pvt. Ltd.**
- **Floatglass India Ltd.**
- **Friends Glass & Glazing Pvt. Ltd.**
- **Gold Plus Glasses India Ltd.**
- **Gujarat Guardian Ltd.**

- **Saint-Gobain Sekurit India Ltd.**
- **Sejal Glass Ltd.**
- **Sisecam Flat Glass India Pvt. Ltd.**
- **T P R S Enterprises Pvt. Ltd.**
- **Triplex Glass Works Pvt. Ltd.**
- **Triveni Glass Ltd**

Machinery Photographs



Force Convection Flat Glass Tempering Machine



Glass Polishing Machine



Automatic Glass Drilling Machine

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	10.00	10.00	Capital	0.00	189.61	189.61
Buildings	0.00	198.00	198.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	331.50	331.50	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	126.00	126.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	568.84	568.84
Preliminary & Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	31.00	31.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	25.95	25.95				
TOTAL	0.00	758.45	758.45	TOTAL	0.00	758.45	758.45

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No. of Times	%
1-2	5.08	9.85	15.08	24.00	0.00	100.00	5.08	0.00	5.08	1.00	0.00
2-3	7.78	11.94	22.86	18.00	0.00	100.00	7.78	0.00	7.78	1.00	0.00
3-4	10.45	14.09	33.31	12.00	0.00	100.00	10.45	0.00	10.45	1.00	0.00
4-5	13.07	16.25	46.38	6.00	0.00	100.00	13.07	0.00	13.07	1.00	0.00
5-6	15.60	18.39	61.98	0.00	0.00	100.00	15.60	0.00	15.60	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.44	1.44		1.59	1.59	1.87		26.81%	14.04%	10.29%	596.50	63.73%	1.17	0.92
2-3	1.73	1.58		0.79	0.79	1.00		30.76%	20.21%	13.51%	694.04	63.56%	1.29	1.47
3-4	2.07	1.73	2.07	0.36	0.36	0.53		33.48%	24.57%	15.88%	793.14	63.55%	1.32	2.15
4-5	2.47	1.89		0.13	0.13	0.26		35.38%	27.70%	17.65%	892.24	63.55%	1.28	2.94
5-6	2.94	2.07		0.00	0.00	0.11		36.70%	29.97%	18.96%	991.35	63.55%	1.21	7.18

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	47.48%
Total BEP (% of Installed Capacity)	52.81%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)	25.90%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	3.961

Major Queries/Questions Answered in the Report?

- 1. What is Toughened Glass Manufacturing industry ?**
- 2. How has the Toughened Glass Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Toughened Glass Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Toughened Glass Manufacturing plant ?**

5. What is the structure of the Toughened Glass Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Toughened Glass Manufacturing Business?

7. What are the operating costs for setting up Toughened Glass Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Toughened Glass Manufacturing plant ?

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Toughened Glass Manufacturing plant ?

10. What are the requirements of raw material for setting up Toughened Glass Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Toughened Glass Manufacturing Business?

12. What is the Manufacturing Process of Toughened Glass?

13. What is the total size of land required for setting up Toughened Glass Manufacturing plant ?

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15. What are the Projected Balance Sheets of Toughened Glass Manufacturing plant ?

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17. What is the Built up Area Requirement and cost for setting up Toughened Glass Manufacturing Business?

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19. What are Statistics of Import & Export for Toughened Glass?

20. What is the time required to break-even of Toughened Glass Manufacturing Business?

21. What is the Break-Even Analysis of Toughened Glass Manufacturing plant?

22. What are the Project financials of Toughened Glass Manufacturing Business?

23. What are the Profitability Ratios of Toughened Glass Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Toughened Glass Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Toughened Glass Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Toughened Glass Manufacturing project?

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Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Toughened Glass.” provides an insight into Toughened Glass market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Toughened Glass project. The report assesses the market sizing and growth of the Indian Toughened Glass Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Toughened Glass sector in India along with its business prospects. Through this report we have identified Toughened Glass project as a lucrative investment avenue.

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And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- ❑ Good Present/Future Demand**
- ❑ Export-Import Market Potential**
- ❑ Raw Material & Manpower Availability**
- ❑ Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,

Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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- **Business Plan**
- **Technology Books and Directory**
- **Industry Trend**
- **Databases on CD-ROM**
- **Laboratory Testing Services**
- **Turnkey Project Consultancy/Solutions**
- **Entrepreneur India (An Industrial Monthly Journal)**

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision

Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

- ❖ **Public-sector Companies**
- ❖ **Corporates**
- ❖ **Government Undertakings**
- ❖ **Individual Entrepreneurs**
- ❖ **NRI's**
- ❖ **Foreign Investors**
- ❖ **Non-profit Organizations, NBFC's**
- ❖ **Educational Institutions**
- ❖ **Embassies & Consulates**
- ❖ **Consultancies**
- ❖ **Industry / trade associations**

- ❖ **Ayurvedic And Herbal Medicines, Herbal Cosmetics**
- ❖ **Alcoholic And Non Alcoholic Beverages, Drinks**
- ❖ **Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin**
- ❖ **Activated Carbon & Activated Charcoal**
- ❖ **Aluminium And Aluminium Extrusion Profiles & Sections,**
- ❖ **Bio-fertilizers And Biotechnology**
- ❖ **Breakfast Snacks And Cereal Food**
- ❖ **Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling**

- ❖ **Bamboo And Cane Based Projects**
- ❖ **Building Materials And Construction Projects**
- ❖ **Biodegradable & Bioplastic Based Projects**
- ❖ **Chemicals (Organic And Inorganic)**
- ❖ **Confectionery, Bakery/Baking And Other Food**
- ❖ **Cereal Processing**
- ❖ **Coconut And Coconut Based Products**
- ❖ **Cold Storage For Fruits & Vegetables**
- ❖ **Coal & Coal Byproduct**

- ❖ **Copper & Copper Based Projects**
- ❖ **Dairy/Milk Processing**
- ❖ **Disinfectants, Pesticides, Insecticides, Mosquito Repellents,**
- ❖ **Electrical, Electronic And Computer based Projects**
- ❖ **Essential Oils, Oils & Fats And Allied**
- ❖ **Engineering Goods**
- ❖ **Fibre Glass & Float Glass**
- ❖ **Fast Moving Consumer Goods**
- ❖ **Food, Bakery, Agro Processing**

- ❖ **Fruits & Vegetables Processing**
- ❖ **Ferro Alloys Based Projects**
- ❖ **Fertilizers & Biofertilizers**
- ❖ **Ginger & Ginger Based Projects**
- ❖ **Herbs And Medicinal Cultivation And Jatropha (Biofuel)**
- ❖ **Hotel & Hospitality Projects**
- ❖ **Hospital Based Projects**
- ❖ **Herbal Based Projects**
- ❖ **Inks, Stationery And Export Industries**

- ❖ **Infrastructure Projects**
- ❖ **Jute & Jute Based Products**
- ❖ **Leather And Leather Based Projects**
- ❖ **Leisure & Entertainment Based Projects**
- ❖ **Livestock Farming Of Birds & Animals**
- ❖ **Minerals And Minerals**
- ❖ **Maize Processing(Wet Milling) & Maize Based Projects**
- ❖ **Medical Plastics, Disposables Plastic Syringe, Blood Bags**
- ❖ **Organic Farming, Neem Products Etc.**

- ❖ **Paints, Pigments, Varnish & Lacquer**
- ❖ **Paper And Paper Board, Paper Recycling Projects**
- ❖ **Printing Inks**
- ❖ **Packaging Based Projects**
- ❖ **Perfumes, Cosmetics And Flavours**
- ❖ **Power Generation Based Projects & Renewable Energy Based Projects**
- ❖ **Pharmaceuticals And Drugs**
- ❖ **Plantations, Farming And Cultivations**
- ❖ **Plastic Film, Plastic Waste And Plastic Compounds**
- ❖ **Plastic, PVC, PET, HDPE, LDPE Etc.**

- ❖ **Potato And Potato Based Projects**
- ❖ **Printing And Packaging**
- ❖ **Real Estate, Leisure And Hospitality**
- ❖ **Rubber And Rubber Products**
- ❖ **Soaps And Detergents**
- ❖ **Stationary Products**
- ❖ **Spices And Snacks Food**
- ❖ **Steel & Steel Products**
- ❖ **Textile Auxiliary And Chemicals**

- ❖ **Township & Residential Complex**
- ❖ **Textiles And Readymade Garments**
- ❖ **Waste Management & Recycling**
- ❖ **Wood & Wood Products**
- ❖ **Water Industry(Packaged Drinking Water & Mineral Water)**
- ❖ **Wire & Cable**



MARKET RESEARCH REPORTS

Objective

- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
 - ❑ Growth drivers of the industry
 - ❑ Latest market trends
 - ❑ Insights on regulatory framework
 - ❑ SWOT Analysis
 - ❑ Demand-Supply Situation
 - ❑ Foreign Trade
 - ❑ Porters 5 Forces Analysis

Objective

- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
 - ❑ Key players with their market shares
 - ❑ Financial comparison of present players

Clientele

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



Our Team

- Our research team comprises of experts from various financial fields:**
- MBA's**
- Industry Researchers**
- Financial Planners**
- Research veterans with decades of experience**

Structure of the Report

- 1. Overview**
- 2. Market Analysis**
 - 2.1 Growth Drivers**
 - 2.2 Emerging Trends in the Industry**
 - 2.3 Regulatory Framework**
 - 2.4 SWOT Analysis**
 - 2.5 Herfindahl–Hirschman Index (HHI)**
- 3. Market Forecasts**
- 4. Key Players**

Structure of the Report

- 5. Key Financials and Analysis**
 - 5.1 Contact Information**
 - 5.2 Key Financials**
 - 5.3 Financial comparison**
- 6. Industry Size & Outlook**

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<https://goo.gl/VstWkd>



Contact us

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The background of the slide features a large, dark blue diamond-shaped pattern overlaid on a lighter blue background. The pattern is composed of multiple overlapping diamond shapes, creating a grid-like effect. The background image shows a bright, cloudy sky and a body of water, possibly a lake or sea, with a white structure visible in the distance.

THANK YOU

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