

WOVEN FIBERGLASS FABRIC

***Manufacturing Business Using E
Class Imported Yarns (For
Composites of Domestic as well as
Export Markets)***



INTRODUCTION

Fiberglass is a popular type of glass fiber-reinforced plastic. The fibers may be woven into a cloth, flattened into a sheet (known as a chopped strand mat), or randomly arranged. The plastic matrix can be either a thermoset polymer matrix (most commonly based on thermosetting polymers such as epoxy, polyester resin, or vinyl ester) or a thermoplastic matrix (most commonly based on thermoplastic polymers such as epoxy, polyester resin, or vinyl ester).

Related Projects:- [Business Opportunities in Weaving Of Fiberglass Fabric Using E Class Imported Yarns \(For Composite of Domestic As Well As Export Markets\)](#)



It is stronger than many metals by weight, is non-magnetic, non-conductive, and transparent to electromagnetic radiation, can be moulded into complex shapes, and is chemically inert in many situations, and is cheaper and more versatile than carbon Fiber. Aero planes, boats, trucks, bath tubs and enclosures, swimming pools, hot tubs, septic tanks, water tanks, roofing, plumbing, cladding, orthopedic casts, surfboards, and external door skins are all examples of applications.

Related Book:- [Product Related Books](#)

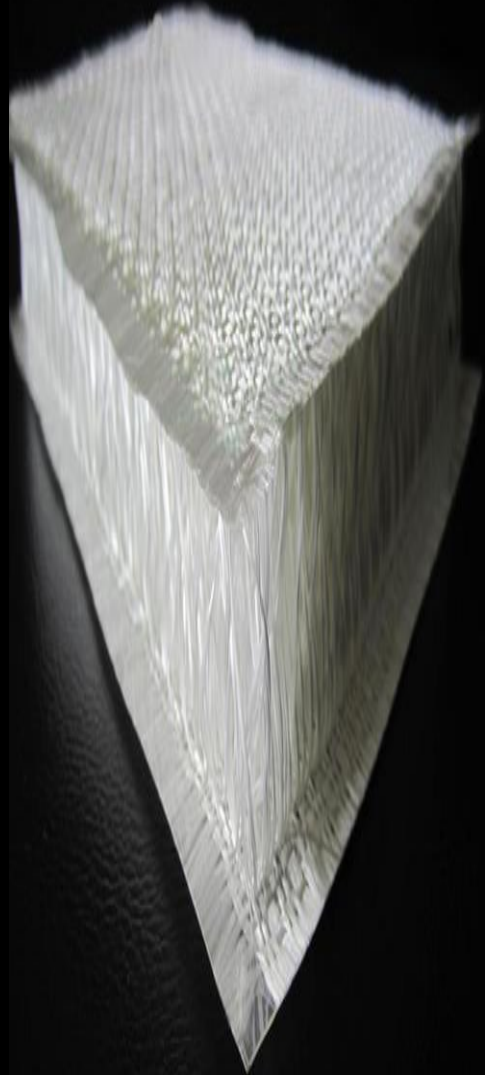


Applications of Fiberglass Fabrics

Professionals in a variety of industries look for materials with high-temperature insulation to ensure that industrial gaskets provide an effective thermal barrier. Fiberglass has become a prized and preferred material for protecting machinery due to its high thermal insulation. This material can be used in a variety of ways:-

Aerospace: Without fiberglass, it would be impossible to manufacture parts for military and civilian aerospace ducting, enclosures, and test equipment. Fiberglass is widely used as a composite in jet engines and aircraft interiors, as well as a solution for reducing aircraft weight, due to its lightweight and environmentally friendly nature.

Related Videos:- [Plastic Products](#)



Automotive: Fiberglass is widely used in the automotive industry, both in manufacture and in transportation. While aluminium and steel are still the most popular materials for mechanical components and chassis, fiberglass is often used to lighten door panels, supporting beams, and drive shafts without sacrificing physical integrity. This amazing composite has also been used in the auto detailing industry for rust resistance and colour contrast.

Related Projects:- TEXTILE BLEACHING, DYEING, SPINNING, WEAVING, PRINTING, FINISHING AND TEXTILE AUXILIARIES PROJECTS



Beverage: Fiberglass grating is commonly used for bottling lines in beverage and condiment factories or breweries. Sturdy grating that can withstand heavy traffic while providing safe and easy access to conveyor lines is required in these highly industrial environments. When it comes to the manufacture of high purity products, such as pharmaceuticals, fiberglass has distinct advantages over other materials.

Chemical Industry: In the chemical industry, anti-slip safety features are critical. Fiberglass grating is frequently used to reinforce platforms, handrails, and walkways, as well as to protect workers from hazards.

Market Research; - [Market Research Report](#)



Manufacturing Process Of Fiberglass Fabric

The fiberglass cloth factory's production process uses the most advanced production equipment and employs professional personnel to monitor the equipment's operation and the quality of the products in order to ensure product quality and production stability.

Related books:- [Plastics And Polymers, Polyester Fibers, Pet & Preform, Medical, Expanded Plastics, Polyurethane, Polyamide, Polyester Fibers, Additives, Colourants And Fillers, Extrusion, Moulding, Mould Designs, Optical Glass, Reinforced, Films, HDPE, Thermoset](#)



Preparation

Warping

Warp and weft yarn are used to make fiberglass fabric. The purpose of warping is to arrange a specific number of weft yarns in accordance with the cloth's width and weaving requirements. To prepare sizing yarn, the warp yarns are taken up on the warp beam. The original yarn and the cloth type are used to determine the warping speed and tension. Because the tension is difficult to control, warping should be done several times.



Profile;- [Project Reports & Profiles](#)

Sizing

The goal of sizing is to improve lubrication and prevent hairiness or yarn breakage caused by the warp and machine friction during weaving. After the woven fabric has been woven into a cloth, it must be resized for further production. Controlling the tension during sizing is especially important to avoid it breaking and affecting the fabric quality. To remove excess water from the warp yarns, the sizing warp yarns are extruded by machine and then dried with hot steam.

Warp Beaming

The parallel shaft joins the warp yarns of several warp beams onto a weaving shaft to form a pan head with the desired number of warp yarns.



Healding

The final step in the preparation is healding. Each warp must pass through the lining machine, the heald, and the steel buckle before weaving the shaft so that it can be moved up and down on the loom to finish the weaving.

Weaving

Weft yarns are constantly woven with warp yarns on jet looms to create glass fabrics of various widths, basis weights, and warp and weft densities. The weaving speed increases as the looms rotational speed increases, but the friction with the warp yarn increases, making hairiness more likely. The woven glass cloth is not post-treated at this time and is a woven fabric.



Final Treatment

Continuous heat treatment is also known as first-time desizing. When the weaving is finished, the thickeners are no longer needed and must be removed before the cloth surface treatment. Fiberglass fabric is desized in two steps using a high-temperature desizing process. During the first desizing, 90% of the sizing will be burned.

Batch Heat Treatment

The second time desizing is also known as batch heat treatment. The fabric is bundled in batches after continuous desizing and then put in the second desizing furnace for desizing, almost entirely removing the residual on the surface.

Books: - [BOOKS & DATABASES](#)



Surface Treatment

To increase the interface strength between the fiberglass cloth and the resin, the surface of the fiberglass cloth must be treated with a silane coupling agent after desizing. To make a finished cloth, immerse the cloth surface in the silane treatment liquid and then dry it in a drying oven.

Inspection

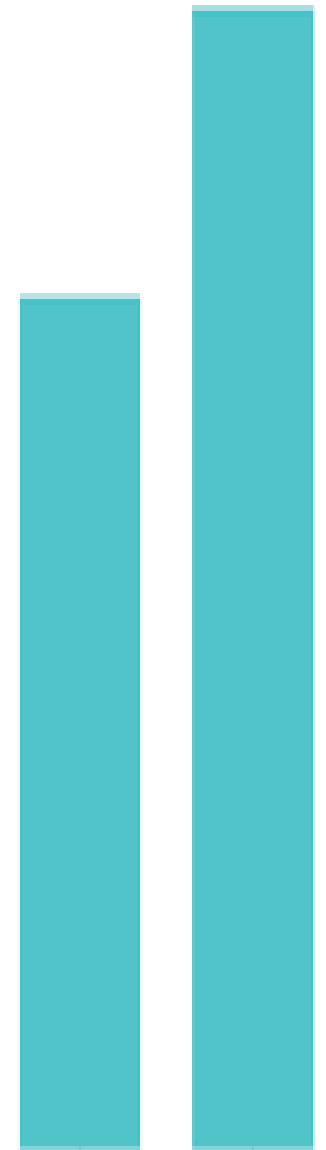
To inspect the fabric's appearance quality and, if necessary, to remove it.

Projects And Profiles:- [Project Consultancy, Reports & Profiles](#)



Market Outlook

In terms of value, the global fiberglass fabric market is expected to reach USD 13.48 billion by 2022, growing at a CAGR of 7.62 percent between 2017 and 2022. The growing demand for fiberglass fabrics in applications requiring high performance properties, as well as various business strategies such as agreements, expansions & investments, acquisitions, and new product developments implemented by the key players in this market, are driving the global fiberglass fabric market forward. Fiber type, fabric type, application, and area are all considered when segmenting the global fiberglass fabric market. E-glass and other fiber types are further classified.



Due to its superior properties and cost efficiency, e-glass fabric is the fastest-growing segment. E-glass is widely used in end-use applications such as wind energy, transportation, building, and electrical and electronics, among others, because it has high strength, is lightweight, corrosion resistant, has better insulation properties, and is less expensive than other fibers.

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Key Players

- **Everlast Composites Pvt. Ltd.**
- **Goa Glass Fibre Ltd.**
- **Jushi India Pvt. Ltd.**
- **Magnus Composites Synergies Pvt. Ltd.**
- **U P Twiga Fiberglass Ltd.**
- **SAERTEX GmbH & Co.KG**
- **Saint-Gobain Performance Plastics Corporation**
- **Tah Tong Textile Co., Ltd.**
- **Taiwan Electric Insulator Co., Ltd.**
- **Valutex Reinforcements Inc.**



Machinery Photographs

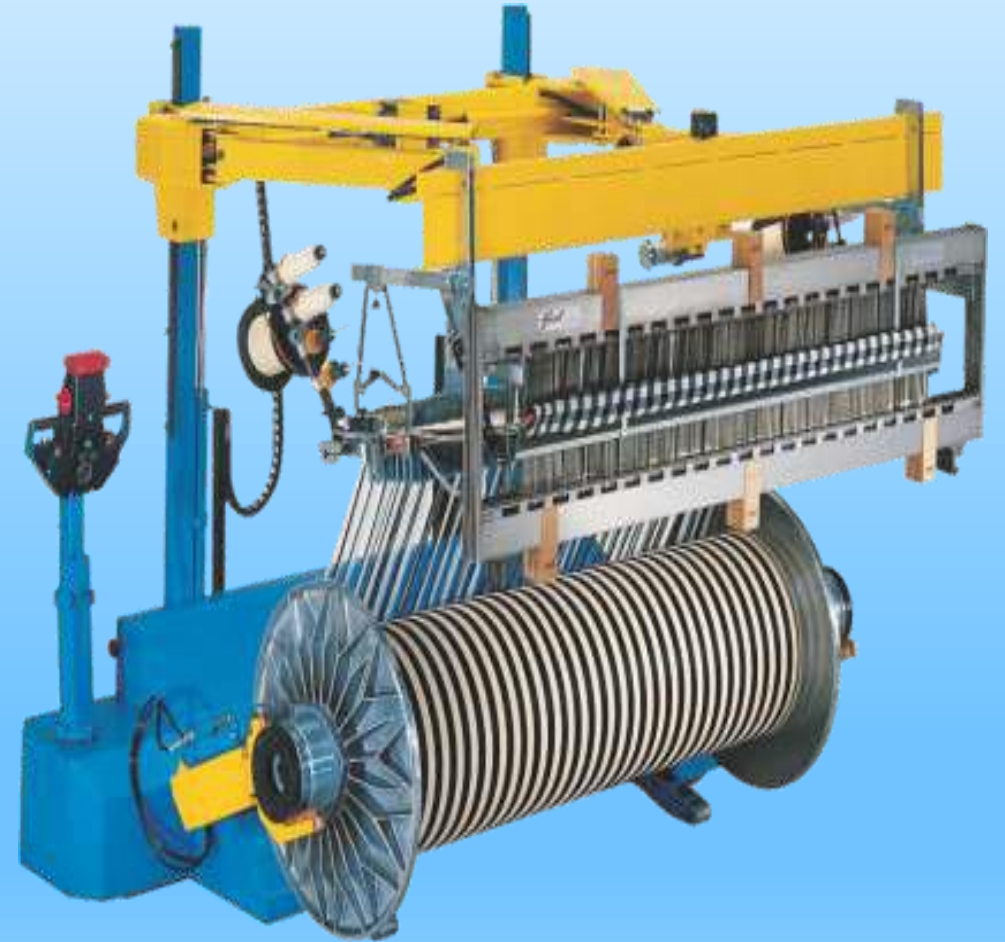
RAPIER WEAVING MACHINE FOR TECHNICAL TEXTILE WEAVING



NEGATIVE REPAIR KIT FOR TEXTILE WEAVING



HYDRAULICALLY OPERATED BEAM DRAWING TROLLY



HUMIDIFICATION CUM ATOMIZER SPRAY SYSTEM



FILTERS



CLOTH ROLL TROLLEY



EMPTY BEAM CARRIER TROLLEY



HYDRAULICALLY OPERATED HAND PALLET



WELT TRANSPORTING TROLLEY



PROJECT AT A GLANCE

**COST OF PROJECT****MEANS OF FINANCE**

Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	80.00	80.00	Capital	0.00	290.69	290.69
Buildings	0.00	90.38	90.38	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	793.29	793.29	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	0.00	0.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	70.50	70.50	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	872.06	872.06
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	77.35	77.35	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	24.24	24.24				
TOTAL	0.00	1162.75	1162.75	TOTAL	0.00	1162.75	1162.75

Year	Annualized		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	4.71	9.82	14.71	24.00	0.00	100.00	4.71	0.00	4.71	1.00	0.00
2-3	6.94	11.32	21.65	18.00	0.00	100.00	6.94	0.00	6.94	1.00	0.00
3-4	9.18	12.94	30.83	12.00	0.00	100.00	9.18	0.00	9.18	1.00	0.00
4-5	11.41	14.64	42.24	6.00	0.00	100.00	11.41	0.00	11.41	1.00	0.00
5-6	13.59	16.37	55.83	0.00	0.00	100.00	13.59	0.00	13.59	1.00	0.00



Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnove r Ratio	Curren t Ratio
	Individu al	Cumulati ve	Overal l					GPM	PBT	PAT	Net Contri bution	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.43	1.43		1.63	1.63	1.79		30.49%	18.44%	15.15%	680.66	75.27%	0.77	0.84
2-3	1.65	1.54		0.83	0.83	0.95		36.36%	27.39%	19.11%	786.25	74.52%	0.87	1.46
3-4	1.92	1.66	1.93	0.39	0.39	0.48		40.32%	33.67%	22.14%	898.38	74.51%	0.92	2.22
4-5	2.24	1.78		0.14	0.14	0.22		43.03%	38.16%	24.45%	1010.52	74.49%	0.91	3.11
5-6	2.63	1.93		0.00	0.00	0.06		44.88%	41.41%	26.21%	1122.65	74.48%	0.88	10.90

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****37.09%****Total BEP (% of Installed Capacity)****44.28%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****23.02%****Payback Period of the Project is (In Years)****2 Years 4 Months****Fixed Assets Coverage Ratio (No. of times)****2.489**

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

- 5. What is the structure of the Weaving of Fiberglass Fabric Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Weaving of Fiberglass Fabric Manufacturing Business?**
- 7. What are the operating costs for setting up Weaving of Fiberglass Fabric Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Weaving of Fiberglass Fabric Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Weaving of Fiberglass Fabric Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Weaving of Fiberglass Fabric Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Weaving of Fiberglass Fabric Manufacturing Business?**
- 12. What is the Manufacturing Process of Weaving of Fiberglass Fabric?**

13. What is the total size of land required for setting up Weaving of Fiberglass Fabric Manufacturing plant ?

14. What will be the income and expenditures for Weaving of Fiberglass Fabric Manufacturing Business?

15. What are the Projected Balance Sheets of Weaving of Fiberglass Fabric Manufacturing plant ?

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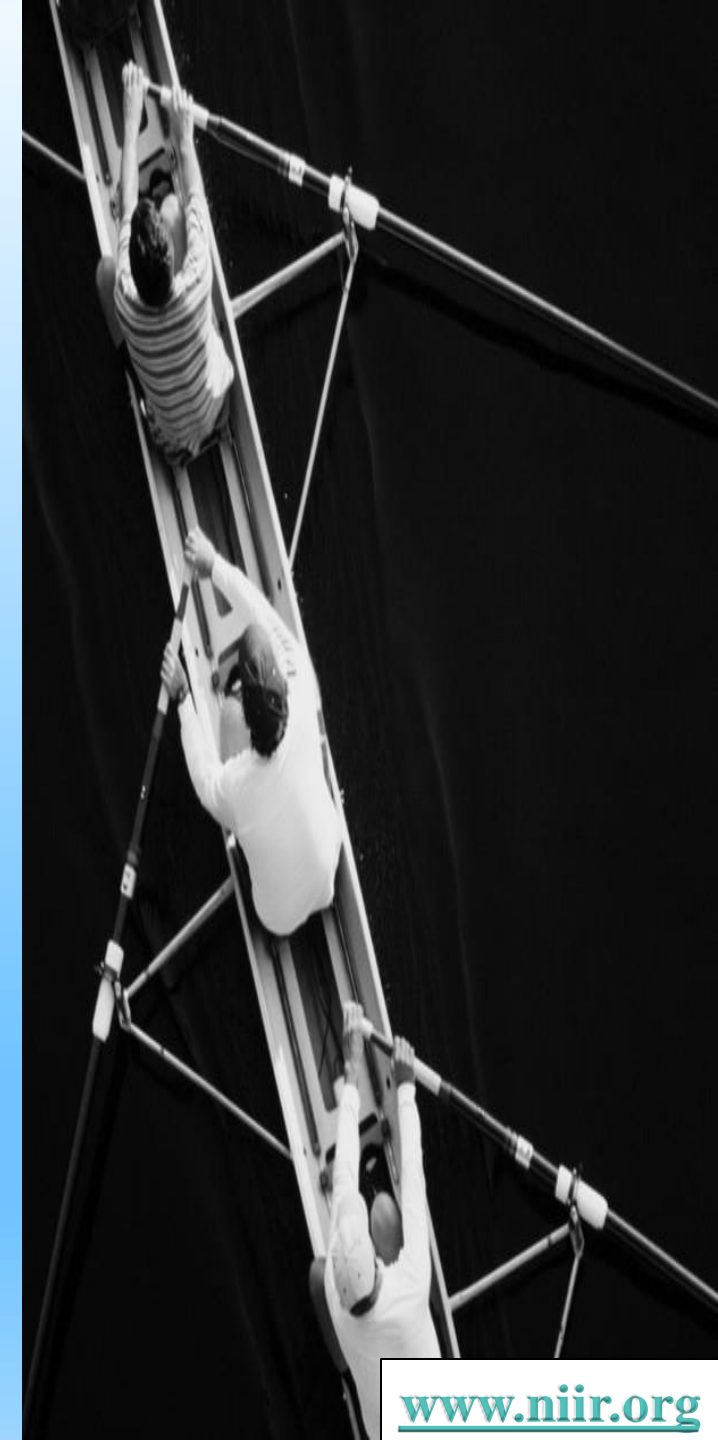
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- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**



The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Weaving of Fiberglass Fabric.” provides an insight into Weaving of Fiberglass Fabric market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Weaving of Fiberglass Fabric project. The report assesses the market sizing and growth of the Indian Weaving of Fiberglass Fabric 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 NPCS, 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 Weaving of Fiberglass Fabric sector in India along with its business prospects. Through this report we have identified Weaving of Fiberglass Fabric project as a lucrative investment avenue.



Tags

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can provide Detailed Project Report on
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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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.

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- **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.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)

NIIR PROJECT CONSULTANCY SERVICES

AN ISO 9001: 2015 CERTIFIED COMPANY



ABOUT US



- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.

What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *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)*



How are we different ?



- *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**
- **Fiber Glass & Float Glass**
- **Fast Moving Consumer Goods**
- **Food, Bakery, Agro Processing**
- **Fruits & Vegetables Processing**
- **Ferro Alloys Based Projects**
- **Fertilizers & Bio fertilizers**
- **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 REPORT

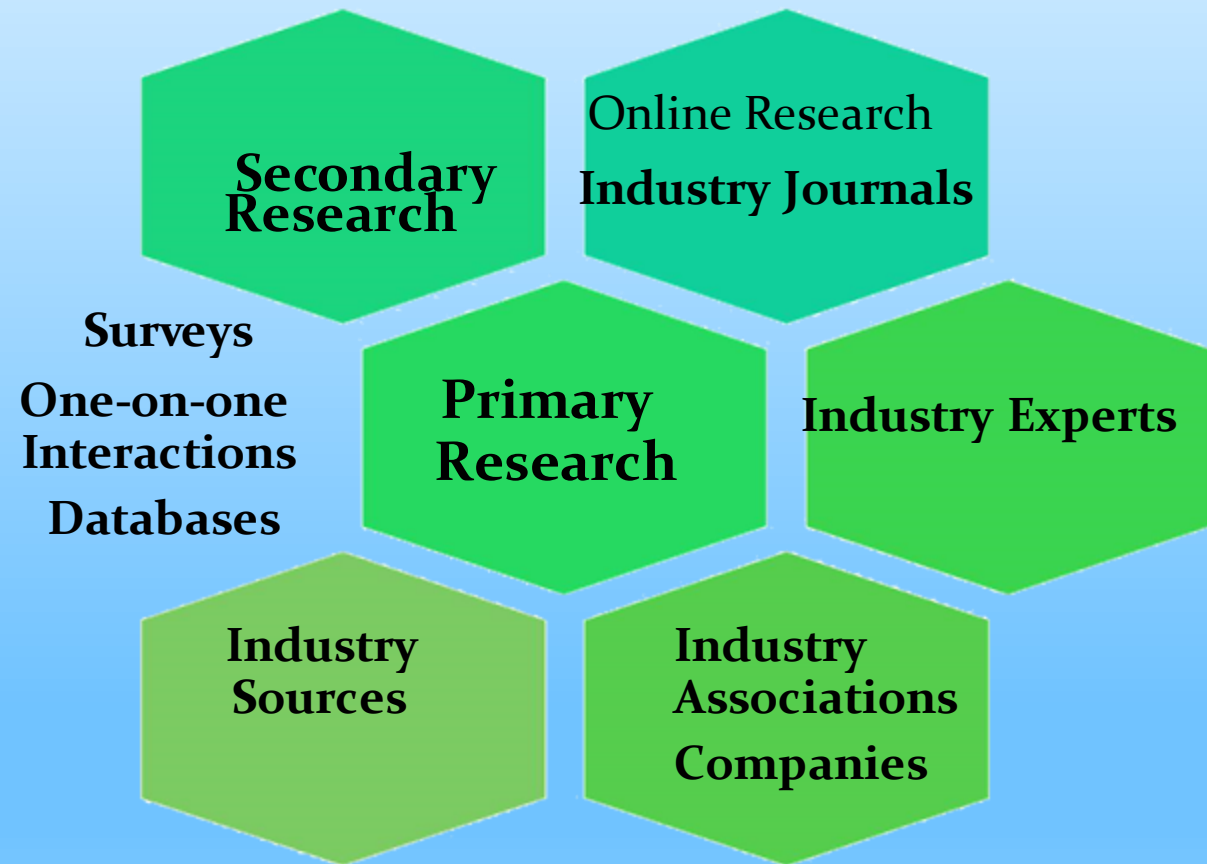
Objective

- **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**

- **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**

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

Take a look at on #Street View



<https://goo.gl/VstWkd>



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Take a look at on #StreetView

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THANK YOU

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