

Start Manufacturing Business of

Unsaturated Polyester Resin

Polyester resins are created by reacting dibasic organic acids with polyhydric alcohols to produce a synthetic resin. In unsaturated polyester resins, maleic anhydride is a common raw ingredient having diacid functionality. Sheet moulding compound, bulk moulding compound, and laser printer toner all use unsaturated polyester resins.

Restaurants, kitchens, bathrooms, and other spaces that require washable, low-maintenance walls commonly employ wall panels produced from polyester resins bonded with fibreglass, sometimes known as fibreglass reinforced plastic (FRP). They're also widely employed in cured-in-place pipe installations. In the United States, they are also specified for use as overlays on roadways and bridges by the Departments of Transportation. PCO Polyester Concrete Overlays are the name given to them in this application.

These are usually made from isophthalic acid and heavily cut with styrene up to 50% in some cases. Polyesters, as well as epoxy-based compounds, are utilised in anchor bolt adhesives. Many firms have introduced and continue to produce styrene-free solutions, primarily due to odour concerns, but also due to fears that styrene may be carcinogenic. Most polyester resins are viscous, pale-colored liquids made up of a polyester solution in a reactive diluent such as styrene, but other reactive diluents such as vinyl toluene and different acrylates can also be used.

Polyols (also known as polyhydric alcohols), chemical compounds containing numerous alcohol or hydroxy functional groups, combine with unsaturated and, in certain situations, saturated dibasic acids to generate unsaturated polyesters. Glycols such as ethylene glycol, propylene glycol, and diethylene glycol are common polyols. The acids phthalic acid, isophthalic acid, terephthalic acid, and maleic anhydride are commonly utilised.

Using Le Chatlier's approach, water, a condensation by-product of esterification processes, is continually eliminated by distillation, driving the reaction to completion. Unsaturated polyesters are often sold as a resin solution in a reactive diluent to parts manufacturers. The most frequent diluent and industry standard is styrene.



Uses of Unsaturated Polyester Resins

Unsaturated polyester resins are primarily utilised in the manufacture of fibre reinforced plastics and filled plastic products, such as sanitary ware, tanks, pipes, gratings, and high-performance maritime and transportation components such as closure and body panels, fenders, and other similar items. Hulls and decks for boats, as well as other big glass fibre reinforced plastic goods. Coatings and adhesives also use unsaturated polyester resins.

Market Outlook

In 2019, the global unsaturated polyester resin market was worth USD 11.63 billion. In these end-use areas, recent advancements in the building and construction and tank and pipe industries are projected to fuel demand for isophthalic. The market for unsaturated polyester resin is expected to benefit from increased use of environmentally friendly and energy-saving products (UPR).



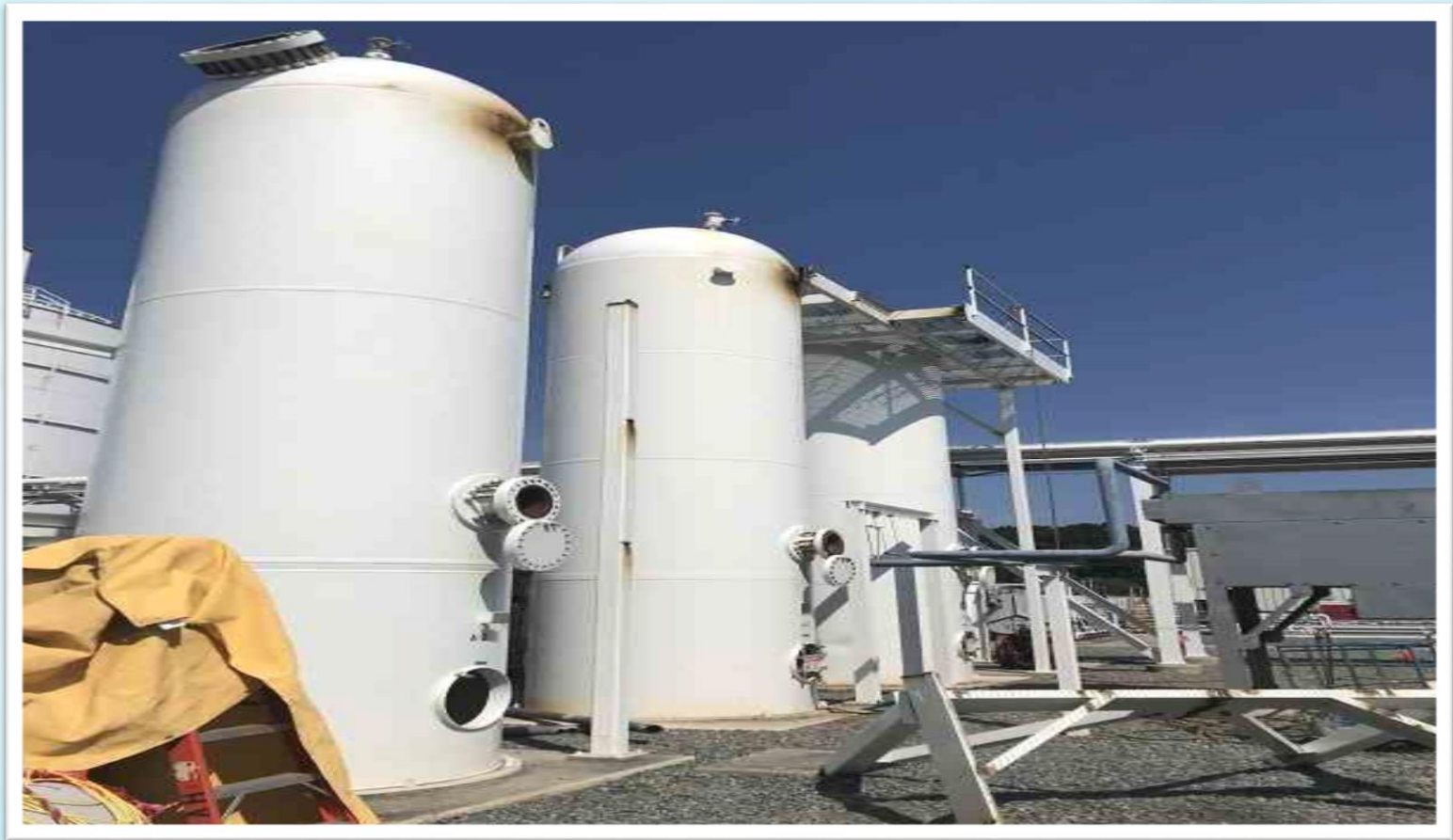
Bio-based unsaturated polyester resins, which offer recyclability, excellent strength, and thermal and corrosion resistance with lower thickness, are expected to drive market growth. Demand is expected to be bolstered by technological breakthroughs, innovations, and studies aimed at broadening the product's application scope. In 2019, Asia Pacific dominated the UPR market with a revenue share of over 57.0 percent.

The growth of major end-use industries such as construction, electronics, transportation, and marine is driving the market. In the near future, the market for UPR is expected to grow due to the automotive industry's strong manufacturing base in China, Japan, and India, as well as increased passenger vehicle sales. In addition, over the forecast period, rising demand for composites in solder pallets, speaker housings, and reinforced cell phones is expected to boost the market for UPR.

Key Players

- **Ashland India Pvt. Ltd.**
- **Ineos Styrolution India Ltd.**
- **Kanoria Chemicals & Inds. Ltd.**
- **Lanxess India Pvt. Ltd.**
- **Reichhold India Pvt. Ltd.**
- **Satyen Polymers Pvt. Ltd.**

Machinery Photographs



Vertical Packed Column



Condenser

The background of the slide is a photograph of numerous blue metal barrels stacked in rows, receding into the distance. The barrels are the primary visual element, creating a sense of scale and industrial context.

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	155.00	155.00	Capital	0.00	121.35	121.35
Buildings	0.00	73.38	73.38	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	166.36	166.36	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	24.25	24.25	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	364.06	364.06
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	15.63	15.63	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	25.80	25.80				
TOTAL	0.00	485.42	485.42	TOTAL	0.00	485.42	485.42

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				
										No.of Times	
						%		%			%
1-2	6.66	9.88	16.66	24.00	0.00	100.00	6.66	0.00	6.66	1.00	0.00
2-3	9.35	12.14	26.01	18.00	0.00	100.00	9.35	0.00	9.35	1.00	0.00
3-4	12.01	14.44	38.02	12.00	0.00	100.00	12.01	0.00	12.01	1.00	0.00
4-5	14.60	16.71	52.62	6.00	0.00	100.00	14.60	0.00	14.60	1.00	0.00
5-6	17.10	18.95	69.72	0.00	0.00	100.00	17.10	0.00	17.10	1.00	0.00

Year	D. S. C. R.			Debt / - Deposit s Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulati ve	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio		
	(Number of times)			(Number of times)	%	%	%	%	%	%				
Initial				3.00	3.00									
1-2	1.44	1.44		1.44	1.44	2.11	15.49%	10.03%	6.91%	384.86	32.89 %	1.90	1.00	
2-3	1.75	1.59		0.69	0.69	1.18	17.12%	12.68%	8.31%	448.98	32.89 %	2.02	1.33	
3-4	2.11	1.75	2.11	0.32	0.32	0.70	18.22%	14.55%	9.34%	513.12	32.89 %	2.02	1.71	
4-5	2.54	1.93		0.11	0.11	0.42	18.94%	15.88%	10.10%	577.26	32.89 %	1.95	2.13	
5-6	3.03	2.11		0.00	0.00	0.26	19.42%	16.82%	10.64%	641.40	32.89 %	1.84	3.45	

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****45.37%****Total BEP (% of Installed Capacity)****48.85%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****26.94%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****6.247**

Major Queries/Questions Answered in the Report?

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

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

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Unsaturated Polyester Resin Manufacturing plant ?

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11. Who are the Suppliers and Manufacturers of Raw materials for setting up Unsaturated Polyester Resin Manufacturing Business?

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28. What is the Plant Layout for setting up Unsaturated Polyester Resin Manufacturing Business?

The background of the slide is a photograph of various pieces of laboratory glassware. From left to right, there is a round-bottom flask containing a red liquid, a graduated cylinder with a red liquid, a large Erlenmeyer flask containing a green liquid, a tall graduated cylinder containing a yellow liquid, a smaller Erlenmeyer flask containing a blue liquid, and a small vial containing a dark brown liquid. The glassware is arranged on a light-colored surface, and the background is a soft, out-of-focus blue.

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UNSATURATED POLYESTER RESIN SYSTEMS**

- **IS 11246: 1992 (REAFFIRMED YEAR: 2017)
GLASSFIBRE REINFORCED POLYESTER RESINS (GRP)
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Reasons for Buying Our Report

- ✓ **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 anticipate the industry performance and make sound business decisions**

A photograph of three business professionals in a modern office setting. Two men in grey suits are shaking hands in the foreground, while a woman in a grey blazer stands behind them, smiling. Large windows in the background show an outdoor scene.

Our Approach

- **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**

Scope of the Report

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

Tags

#DetailedProjectReport

#BusinessIdeas

#StartupBusinessIdea

#EntrepreneurIndia

#NPCSProjects #BusinessConsultant #ProjectReport

#Startup #BusinessOpportunity #BusinessPlan

#Business #unsaturatedPolyesterResin

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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.

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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- 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

Who do we Serve?

- ❖ **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**

Sectors We Cover

- ❖ **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**

Sectors We Cover *Cont...*

- ❖ **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.**

Sectors We Cover *Cont...*

Sectors We Cover *Cont...*

- ❖ **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**

Sectors We Cover *Cont...*

Sectors We Cover *Cont...*

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

The background of the image shows three men in business attire (suits and shirts) looking intently at a large document or report they are holding together. They are standing in front of a modern, multi-story glass skyscraper. The overall scene conveys a professional and collaborative business environment.

Market Research Report

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**



CONTACT US



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Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on #StreetView

[google-street-view](https://www.google.com/maps/@28.6452711,77.1002729,15z)

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THANK YOU

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