

Production of Bioplastic Products.

**Biodegradable and Bio-Plastics
Products Manufacturing Business.**

**Glasses, Plates and Bags
Manufacturing Project.**



Introduction

India is the third largest plastic consumer in the world, with a total consumption of plastics of about four million tons and a resulting waste production of about two million tons. Bioplastics are those plastic materials that are manufactured by using natural resources. There are two categories of these plastics available in the market — biodegradable bioplastics and non-biodegradable bioplastics.

Demand for bioplastics is increasing since past decade due to growing awareness concerning environmental conservation, use of bio-based or natural resources for manufacturing materials and formulation of various regulations across countries for effective use of natural resources and waste management.

Products and solutions based on bioplastics/biopolymers present interesting opportunities globally. Opportunities are present across a variety of industrial sectors that include packaging, water, beverages, insulation materials, specialty materials and more.

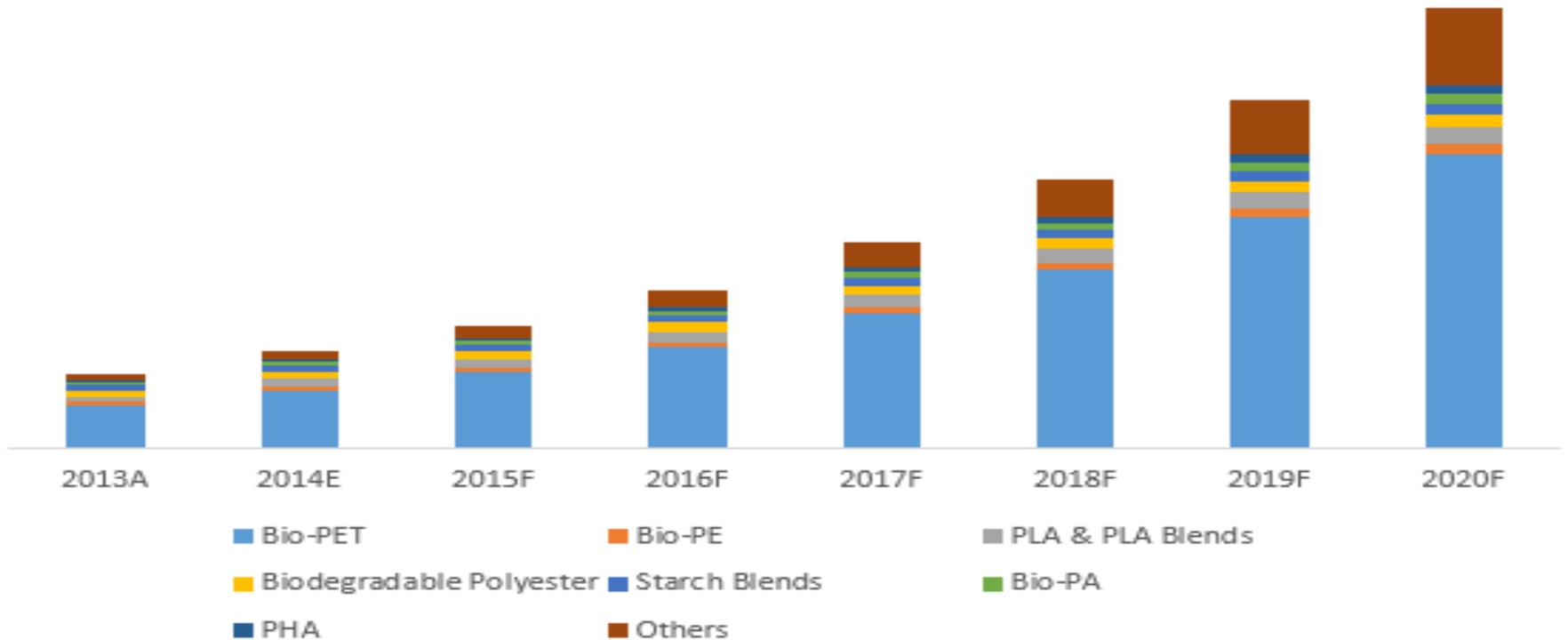
The key factor driving the bioplastics market is the need for more eco-friendly and less polluting materials. Other drivers include volatile fossil fuel prices and the need for companies to decrease their carbon footprint across their entire business value chain. The demand for bioplastics has been gradually increasing due to its renewability and availability of raw material, advanced functionality and technical properties, and the recycling options at least some of them present.

Uses & Application of Bio-plastics

Bio-plastics include single-use items such as plates, utensils, cups, and film wrap plastic bottling and as paper coatings by fast-food companies, clothing fibers compost bags, in the biomedical field, etc. Application areas identified in India for biodegradable plastics are Agricultural Mulch, Surgical Implants, Industrial Packaging, Wrapping, Milk Sachets, Foodservice, Personal Care, Pharmaceuticals, Medical Devices, Recreational, etc.

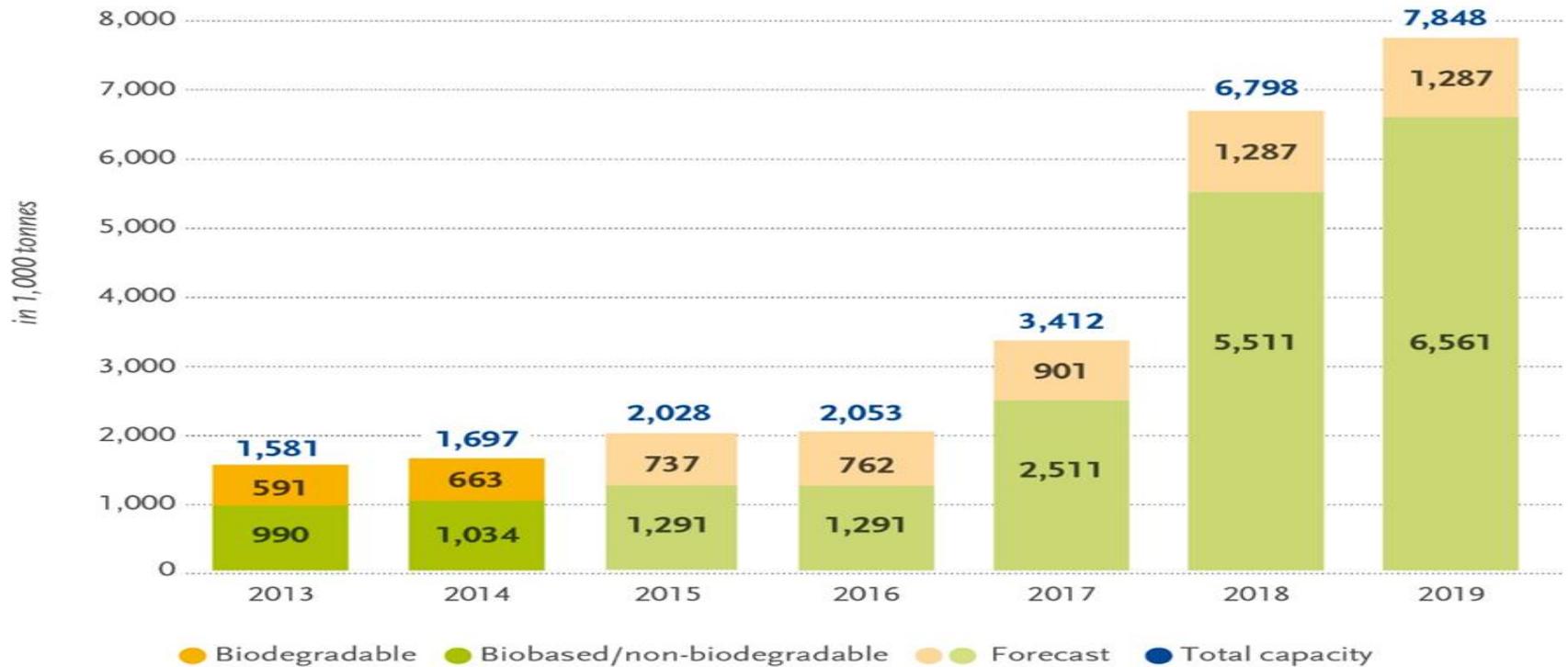
Bioplastics are currently used most in packaging, however it has the potential to be used in any application that controversial plastics are used. Large international companies are making the move to start using bioplastics as their packaging.

Global Bioplastics Market Value, By Material Type, 2013–2020 (US\$ Mn.)



The global bioplastic market will experience significant opportunities in the consumer goods and packaging sectors. The packaging applications are expected to experience significant growth with biodegradable mulch films, compostable waste bags, catering products, film packaging, and rigid packaging. The analysts forecast global bioplastics market to grow at a CAGR of 29.3% during the period 2016-2020. The global bioplastics market is driven by the emergence of renewable resources, biomass, and bio-based raw materials such as starch and vegetable crop derivatives. In 2015, bio-based bioplastics accounted for more than 80% of the global bioplastics market. The use of bioplastics in numerous applications such as packaging and domestic goods has facilitated plastics manufacturers to reduce the overdependence on petroleum-based plastics.

Global-Production-Capacities



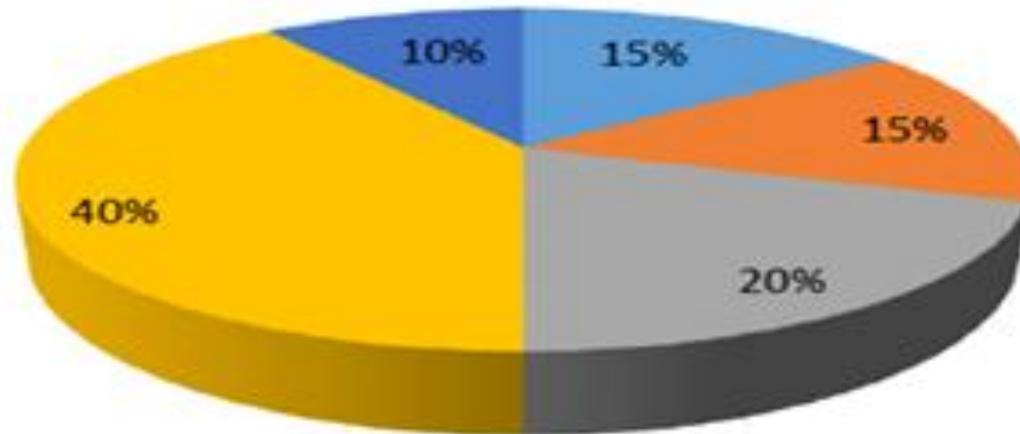
The demand for bio-plastics, both biodegradable and non-biodegradable, makes it one of the fastest growing thermoplastic product types globally. Currently, the biodegradable segment of bioplastics is the largest segment of the bioplastics category. Packaging, disposable food service and fiber applications are major use areas.

Bioplastic products are generally a degradable plastic in which the degradation results from the action of naturally-occurring micro-organisms such as bacteria, fungi, and algae. A biodegradable plastic product is made from normal polymer; the same used in making plastic products but at the same time it also contains newly invented biodegradable plastic additives.

The advantages of bioplastics can prevent plastic pollution from becoming worse, and other methods can be used to help clean up any of this pollution that is already present. Waste to energy programs, and other alternative uses for traditional plastics that are cluttering up landfills and other areas, can eliminate the plastic garbage buildup that harms the earth and environment.

Bioplastic Market Share

- Cellulose acetate
- Extruded Starch
- Polyhydroxyalkanoates (PHAs) and others
- Polylactic Acid (PLA)
- Thermoplastic Starch/ Blends



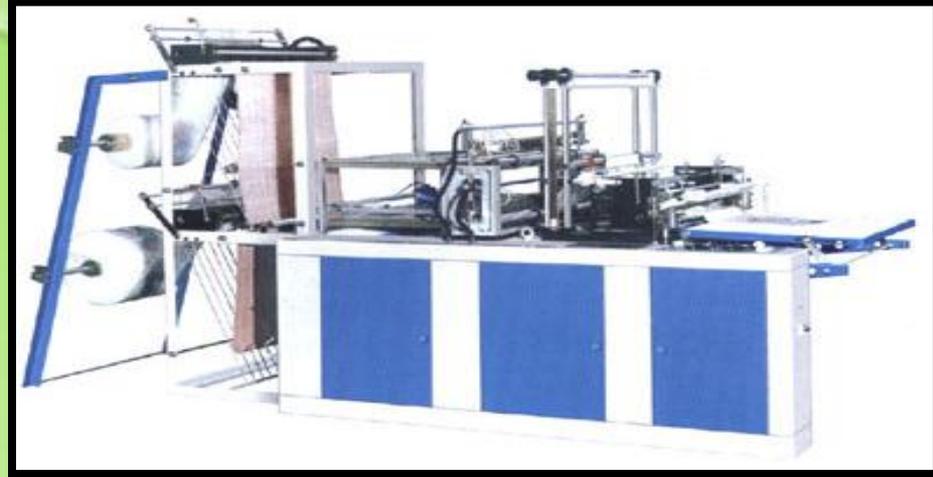
Demand for bio plastics is increasing since past decade due to growing awareness concerning environmental conservation, use of bio-based or natural resources for manufacturing materials and formulation of various regulations across countries for effective use of natural resources and waste management. Increased consumer preference towards biodegradable materials coupled with the growing environmental concern is expected to boost the overall growth of the biodegradable packaging market. Biodegradable packaging market is expected to witness the fastest growth, driven by food and beverage packaging.

Bio based biodegradable plastics find their application in a variety of sectors, including fibres, medical, packaging, and agriculture. The demand for bio based biodegradable plastics is massive in the packaging sector, and it is anticipated that status quo will be maintained in the next five years as well. Other prominent sectors which will create robust demand for bio based biodegradable market include agriculture and medical.

Machinery Photographs



EXTRUDER



SEALING AND BAG MAKING MACHINE



AUTOMATIC THERMOFORMING MACHINE



ROTOGRAVURE PRINTING MACHINE



INJECTION MOULDING MACHINE



STORAGE TANK

Project at a Glance

PROJECT AT A GLANCE								(in lacs)
COST OF PROJECT				MEANS OF FINANCE				
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total	
Land & Site Development Exp.	0.00	22.50	22.50	Capital	0.00	179.74	179.74	
Buildings	0.00	59.00	59.00	Share Premium	0.00	0.00	0.00	
				Other Type Share				
Plant & Machineries	0.00	155.80	155.80	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	29.50	29.50	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	539.22	539.22	
Preliminary & Pre-operative Exp	0.00	2.50	2.50	Debentures / Bonds	0.00	0.00	0.00	
Provision for Contingencies	0.00	15.00	15.00	Unsecured Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	416.66	416.66					
TOTAL	0.00	718.96	718.96	TOTAL	0.00	718.96	718.96	

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	5.63	7.68	15.63	24.00	0.00	100.00	5.63	0.00	5.63	1.00	0.00
2-3	7.86	9.63	23.49	18.00	0.00	100.00	7.86	0.00	7.86	1.00	0.00
3-4	10.08	11.62	33.57	12.00	0.00	100.00	10.08	0.00	10.08	1.00	0.00
4-5	12.28	13.61	45.85	6.00	0.00	100.00	12.28	0.00	12.28	1.00	0.00
5-6	14.42	15.58	60.27	0.00	0.00	100.00	14.42	0.00	14.42	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / Equity - 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	1.18	1.18		1.54	1.54	4.85		18.96%	7.94%	5.36%	1606.77	85.01%	1.16	1.33
2-3	1.42	1.30		0.77	0.77	3.33		19.79%	9.85%	6.40%	779.30	35.34%	1.21	1.34
3-4	1.71	1.42	1.71	0.36	0.36	2.41		20.35%	11.24%	7.19%	864.55	34.31%	1.23	1.38
4-5	2.06	1.56		0.13	0.13	1.82		20.72%	12.26%	7.78%	949.80	33.50%	1.22	1.43
5-6	2.49	1.71		0.00	0.00	1.43		20.97%	13.01%	8.23%	1035.05	32.86%	1.20	1.60

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	40.77%
Total BEP (% of Installed Capacity)	42.78%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.41%
Payback Period of the Project is (In Years)	After 3 Years
Fixed Assets Coverage Ratio (No. of times)	18.950

Major Queries/Questions Answered in the Report?

- 1. What is Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing industry ?**
- 2. How has the Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**

- 5. What is the structure of the Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?**
- 7. What are the operating costs for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?**
- 12. What is the Manufacturing Process of Bio-Plastic Products (Glasses, Plates and Bags)?**

- 13. What is the total size of land required for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**
- 14. What will be the income and expenditures for Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant ?**
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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 to anticipate the industry performance and make sound business decisions**

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 Bio-Plastic Products (Glasses, Plates and Bags)” provides an insight into Bio-Plastic Products (Glasses, Plates and Bags) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Bio-Plastic Products (Glasses, Plates and Bags) project. The report assesses the market sizing and growth of the Indian Bio-Plastic Products (Glasses, Plates and Bags) 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 Bio-Plastic Products (Glasses, Plates and Bags) sector in India along with its business prospects. Through this report we have identified Bio-Plastic Products (Glasses, Plates and Bags) project as a lucrative investment avenue.

Tags

Production of Biodegradable Plastic, Production Process of Bioplastic Products, Production of Bioplastics and Biodegradable Plastics, Bioplastic Manufacturing Process, Production of Bioplastic, Bio-Plastic Products Production, Processing of Bioplastics, Bio-Plastic Production, Bioplastics Production Plant, Production of Biodegradable Plastics and Bioplastics, Bioplastics Production from Waste, Biodegradable Plastic Glass Manufacture, How to Start Bioplastics Production Business, Bioplastics Production Plant, How is Bioplastic Made? Biodegradable Plastic Bags, Manufacturing of Bioplastics Bags, Biodegradable Plastic Bag Production, Production of Bioplastic Bag, Production of Bioplastic Glass, Manufacturing of Bioplastic Glass in India, Bioplastic Glass Manufacturing Plant, Bioplastic Glass Production Process, Bioplastic Plates Manufacturing Process, Bioplastic Manufacturing Plant, Bioplastic Plates Production Plant, Bioplastic Plates Manufacturing Unit, How to Start Bioplastic Plates Manufacturing Business, Bioplastic Bag Production Process, Bioplastic Bag Manufacturing Plant, How to Start Bioplastic Bag Manufacturing Business, Bioplastic Manufacturing project ideas,

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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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- **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](#)



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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

Who are we?

- *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.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



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

Contact us

NIIR PROJECT CONSULTANCY SERVICES

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