

# Production of Bioplastic Film using Biodegradable Resin, PLA (Polylactic Acid).

## Biodegradable Film Manufacturing Business -

Sustainable Alternative to Plastics



[NPCS/5072/23391]

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# **Introduction**

**Bioplastic is a biodegradable material that come from renewable sources and can be used to reduce the problem of plastic waste that is suffocating the planet and polluting the environment.**

**These are 100% degradable, equally resistant and versatile, already used in agriculture, textile industry, medicine and, over all, in the container and packaging market, and biopolymers are already becoming popular in cities throughout Europe and the United States for ecological reasons: they are known as PHA.**



bioplastic

# Advantages of Bioplastics:

- **They reduce carbon footprint**
- **They providing energy savings in production**
- **They do not involve the consumption of non-renewable raw materials**
- **Their production reduces non-biodegradable waste that contaminates the environment**
- **They do not contain additives that are harmful to health, such as phthalates or Bisphenol A**
- **They do not change the flavor or scent of the food contained**



# Growth of Bioplastics

*The predicted growth in the production of bioplastics is being driven by a number of factors, including:*

- **The fluctuating cost of petroleum and the drive for independence from fossil fuels**
- **increasing availability of bioplastics and decreasing cost as greater volumes are produced**
- **Environmental and social impacts of petrochemical-based plastics including carbon footprint, sustainability, pollution involved in end-of-life disposal and health concerns such as leaching of chemicals from plastic packaging into food products**

- **Branding and product differentiation as manufacturers perceive a marketing advantage**
- **Waste minimization regulations**
- **The fact that plastic products are useful and we've become used to using them.**

**Biodegradable Plastic Film are known for being biodegradable and eco-friendly. PLA and PLA blends generally come in the form of granulates with various properties, and are used in the plastic processing industry for the production of films, fibers, plastic containers, cups and bottles. PLA is also the most common type of plastic filament used for home fused deposition modeling.**

## Market Outlook

**With increasing concerns over the use of plastics, sustainable alternatives to plastics are increasingly in demand. Biopolymers in general and bioplastics in particular, present one such sustainable alternative.**

**The global biodegradable plastics market is expected to reach ~16.8 billion by 2022 with CAGR ~8.4% between 2016-2022.**



**Rising consumer awareness about global warming and government legislation such as banned on plastic bags will increase the demand for biodegradable plastics across the globe. Plastics that decompose to carbon dioxide and water under the actions of microorganisms is known as biodegradable plastics. Biodegradable plastics are produced by fermentation of sugar or canola oil to produce polylactic acid (PLA) or polyhydroxyalkanoates (PHA) which in turn converted into biodegradable plastics.**

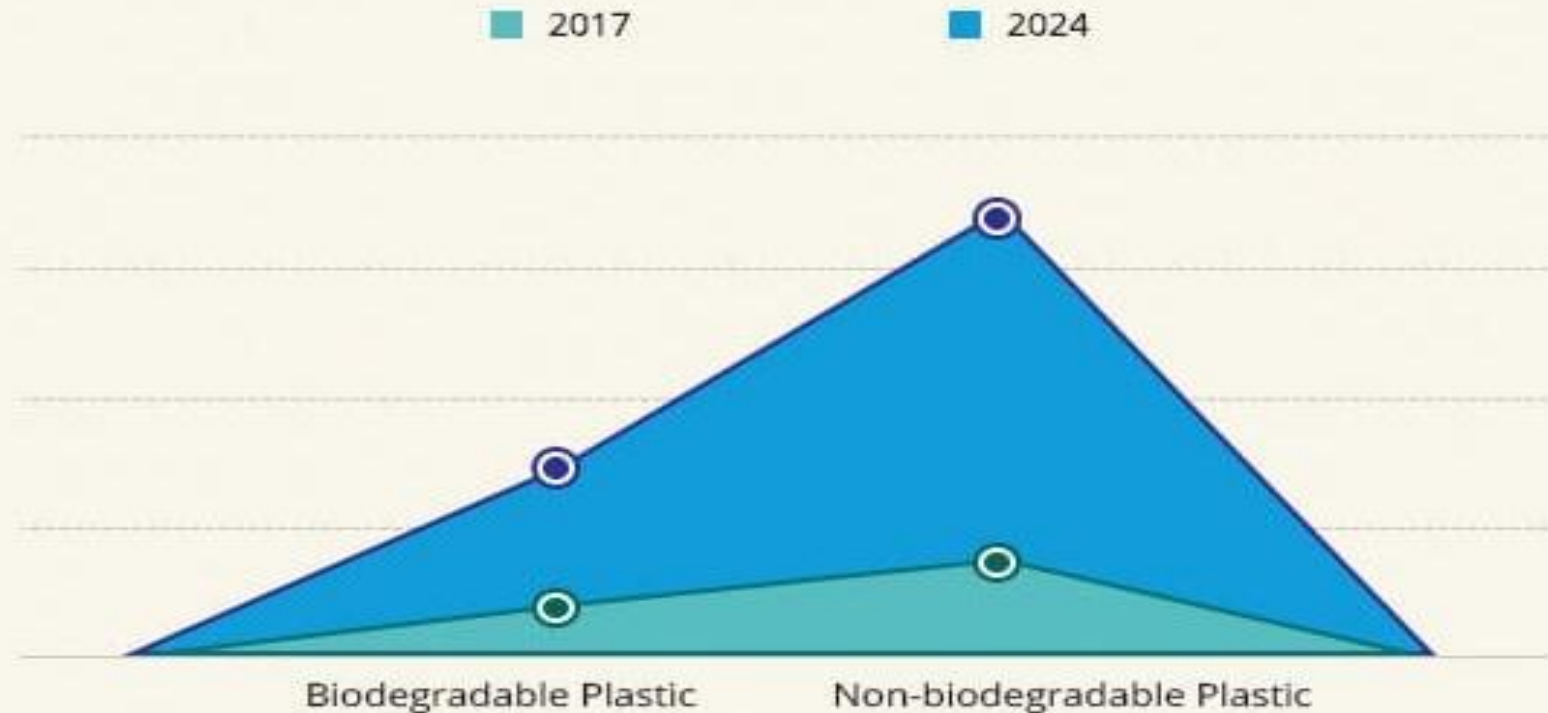
**A sustainable alternative to traditional plastics, bioplastics are plastics that are fully or partially biobased, and/or biodegradable or compostable. In other words, they are plastics that are made from renewable resources such as corn, tapioca, potatoes, sugar and algae and breaks down faster than traditional plastics, which are typically made from petroleum, and other fossil resources such as natural gas. Bioplastics have numerous applications like packaging, bottles, utensils, furniture etc.**

**Globally, the production capacity of bioplastics is highest in Asia followed by South America and Europe. As Asia and South America are closer to where feedstock is grown, the production capacity of bioplastics is higher in these regions. Growing sensitivity to climate change and increasing prices of oil have together contributed to rise in demand of bioplastics products. New high performance bioplastics is being introduced in the market that can withstand higher temperatures. Many companies are also planning to substitute feedstock with some other biobased material or nonfood alternative feedstock from biomass, so as to reduce their dependency on feedstock availability.**



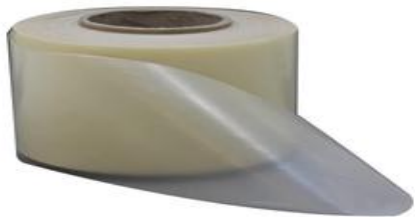


# Global Bioplastic Market, By Type, 2017-2024



**NON-BIODEGRADABLE PLASTIC** segment accounted for the highest market share and is anticipated to grow at the highest **CAGR of 20.2%** from 2018 to 2024

**Polylactic acid-based biodegradable plastics dominate the biodegradable plastics market. This is due to large scale application in packaging industry owing to superior properties such as high mechanical strength and low toxicity. Polylactic acid is fermented by action of wheat starch and corn starch which provide a good appearance to various products across the end user industries. Starch based biodegradable plastics are expected to overtake polylactic acid based biodegradable plastics over the forecasted period owing to high tensile strength and impact resistance in packaging and consumer goods.**



**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.**

**The adoption of bioplastics in rigid packaging was the highest in 2017 and is expected to grow at the same pace throughout 2024. For instance, the commercialization of co-extruded double or multiple layer film products has gained momentum in the recent years. It is also finds applications in various end-use industries such as flexible packaging, textile, agriculture, and horticulture, consumer goods, automotive, electronics, building and construction, and others.**

# Biodegradable Packaging

**The biodegradable packaging market is expected to witness the fastest growth than that compared to the plastics packaging market. The biodegradable packaging market is a relatively new market however; it is expected to capture the existing market share of the non-biodegradable plastic packaging market. The food packaging and beverage packaging market is expected to play a crucial role in driving the overall global biodegradable packaging market. However, lack of government support especially in the developed countries is expected to curb the growth of the market. The presence of huge price difference between the biodegradable packaging and other conventional packaging is further expected to hamper the growth of the market.**

# Machinery Photographs



**Bio Plastic Film Machine**



**Air Compressor**

# 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	197.50	197.50	Capital	0.00	154.18	154.18
Buildings	0.00	102.10	102.10	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	184.96	184.96	Other Type Share			
Motor Vehicles	0.00	7.00	7.00	Capital	0.00	0.00	0.00
Office Automation Equipments	0.00	40.00	40.00	Reserves & Surplus	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	12.00	12.00	Cash Subsidy	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Internal Cash Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	3.00	3.00	Long/Medium Term Borrowings	0.00	462.55	462.55
Provision for Contingencies	0.00	16.90	16.90	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	53.27	53.27	Unsecured Loans/Deposits	0.00	0.00	0.00
<b>TOTAL</b>	<b>0.00</b>	<b>616.73</b>	<b>616.73</b>	<b>TOTAL</b>	<b>0.00</b>	<b>616.73</b>	<b>616.73</b>

# 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	5.93	8.93	15.93	24.00	0.00	100.00	5.93	0.00	5.93	1.00	0.00
2-3	9.13	11.73	25.06	18.00	0.00	100.00	9.13	0.00	9.13	1.00	0.00
3-4	12.25	14.51	37.30	12.00	0.00	100.00	12.25	0.00	12.25	1.00	0.00
4-5	15.22	17.19	52.52	6.00	0.00	100.00	15.22	0.00	15.22	1.00	0.00
5-6	18.03	19.74	70.56	0.00	0.00	100.00	18.03	0.00	18.03	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	1.31	1.31		1.51	1.51	2.51	10.93%	6.58%	4.51%	671.42	33.16%	2.38	1.02	
2-3	1.67	1.48		0.72	0.72	1.45	12.63%	9.13%	5.96%	778.98	32.97%	2.52	1.25	
3-4	2.08	1.66	2.07	0.32	0.32	0.88	13.75%	10.92%	6.99%	890.16	32.97%	2.51	1.54	
4-5	2.56	1.86		0.11	0.11	0.56	14.48%	12.17%	7.73%	1001.34	32.97%	2.42	1.88	
5-6	3.13	2.07		0.00	0.00	0.37	14.93%	13.02%	8.24%	1112.52	32.96%	2.28	2.75	



# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	58.06%
Total BEP (% of Installed Capacity)	60.44%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	27.85%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	8.608

## Major Queries/Questions Answered in the Report?

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

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

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bioplastic Film Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Bioplastic Film Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bioplastic Film Manufacturing Business?**

**12. What is the Manufacturing Process of Bioplastic Film?**

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**18. What are the Personnel (Manpower) Requirements for setting up Bioplastic Film Manufacturing Business?**

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

# Tags

Production of Biodegradable Plastic Films, Production of Biodegradable Plastic Packaging Film, Production of Bioplastic Products, Bioplastic Production, Bioplastic Film for Food Packaging, Production of Bioplastic, Bioplastic Manufacturing Process Pdf, Bioplastic Production Process, Bioplastic Production PPT, Bioplastic Manufacturing Plant, Biodegradable Plastic Manufacturing Process, Film Production from Bioplastics, Bioplastic Film Production, Bio Plastic Films, 100% Recyclable & Biodegradable Plastic Film, Bioplastics Film, Bioplastics Industry, Bioplastics Industry, How to Start a Biodegradable Plastic Manufacturing Company? Applications of Bioplastics, Compostable Bioplastic Manufacturing, Biodegradable and Compostable Alternatives to Conventional Plastics, Biodegradable Plastic, Bioplastic Production, Project Report on Compostable Bioplastic Manufacturing Industry, Detailed Project Report on Compostable Bioplastic Manufacturing, Project Report on Bioplastic Film Production, Pre-Investment Feasibility Study on Bioplastic Film Production, Techno-Economic feasibility study on Bioplastic Film Production, Feasibility report on Compostable Bioplastic Manufacturing, Free Project Profile on Bioplastic Film Production, Project profile on Bio plastic Film Production, Download free project profile on Compostable Bioplastic Manufacturing, Corn Starch Bioplastic Film, Bioplastic film compounds, Bioplastic Films Replacing Conventional Plastic Films, Compostable and Renewable Flexible Packaging Films

**Niir Project Consultancy Services (NPCS)  
can provide Detailed Project Report on  
Production of Bioplastic Film using  
Biodegradable Resin, PLA  
(Polylactic Acid).**

**Biodegradable Film Manufacturing Business -  
Sustainable Alternative to Plastics**

**See more**

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## Reports:

### ▪ Detailed Project Reports

**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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**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](#)**



# Contact us

## **NIIR PROJECT CONSULTANCY SERVICES**

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

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# 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

106-E, Kamla Nagar, Opp. Spark Mall,  
New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

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