

## Biodegradable Plastic Bag Manufacturing Industry.

# Production of Compostable and Biodegradable Bags from Corn Starch. Eco-Friendly Disposable Bags



## Introduction

The corn starch bags look and feel just like the ones made of plastic. A factor behind the huge demand for the corn starch bags is inadequate raw material.

Bags made out of corn starch are bio-based and renewable. Agricultural Crops like Corn can be harvested every year in the fields and are annually renewable. Through photosynthesis, they convert the energy from the sun into carbon chains, which can be processed into plastics and paper.





### **They:**

- have a high barrier to air, grease and bacteria: ideal for food packaging
- are watertight
- have a hard and crinkly texture
- can be heat sealed
- are made from natural renewable resources
- are biodegradable
- are compostable in a compost facility
- Use these bags to package dry goods, nuts, fruit, beans peas etc.

These biodegradable bags are being liked over traditional plastic products, especially for the fast-moving consumer goods and food packaging.



#### **Market Outlook**

The biodegradable plastic bags and sacks market have consolidated landscape owing to increasing strategic business activities. The key players operating in the biodegradable plastic bags and sacks market are trying to provide improved and versatile products. The players are focusing to offer high quality and biodegradable additives so as to gain more shares than other rivals. In addition, several players are indulging in strategic business activities such as mergers and acquisitions to improve their global presence.





## **Global Biodegradable Plastic Bags Market**





The increasing dependence of the medical and food industry on environmental-friendly plastic packaging is a notable factor catalyzing the market demand for biodegradable plastics bags and sacks.





#### **Biodegradable Plastics Market**

Biodegradable plastics are plastics which decompose in the environment within a reasonable period of time. Biodegradable plastics are made up of renewable raw materials. Many of these plastics require biodegradable additives to enhance biodegradation process and some may require a specific environment to disintegrate. Time taken by plastics to decompose depends upon various factors such as raw material used and environmental conditions such as moisture and temperature.

The global biodegradable plastics market size is projected to reach USD 6.73 billion by 2025. The starch based segment lead the global biodegradable market. Starch based plastics are used in various applications such as packaging, consumer electronics, agriculture, automotive and textiles.



The Global Biodegradable Plastic market is primarily driven by a positive attitude of government towards green procurement policies and superior characteristics of biodegradable plastics. The government of different countries are initiating stringent actions for reducing the use of conventional plastics by implementing taxes on oil-based plastics and disallowing the use of conventional plastics.

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.



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Packaging industry is leading segment in application of biodegradable plastics. Increasing demand of biodegradable plastics as major packaging applications in food & beverage, textiles, pharmaceuticals and consumer goods is augmented to market growth over the forecasted period. Changing lifestyle of consumer along with increase in packaged food products demand in developed regions are boosting the demand for biodegradable plastics in packaging industries. Rising awareness among farmers to build green houses for production of fruits and vegetables has boosted the biodegradable plastics in agriculture application. Growing electronic, medical and automobile industry has also boosted the demand of biodegradable plastics market.

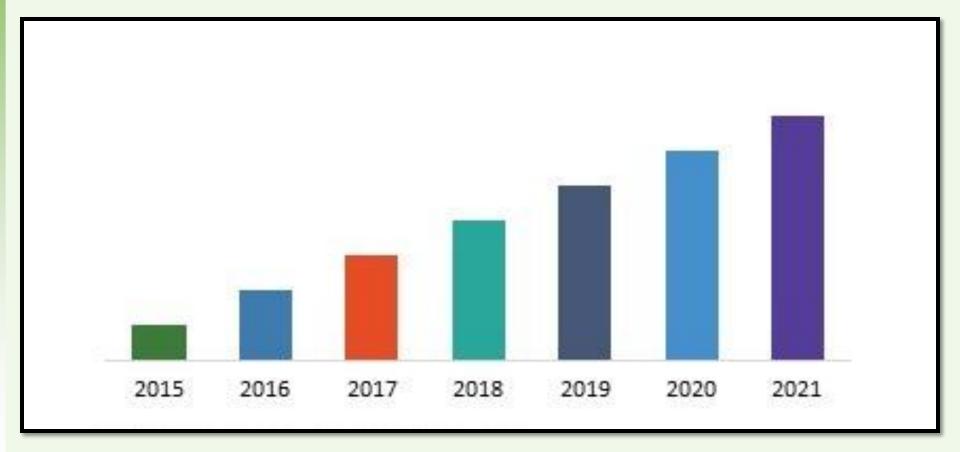


Biodegradable plastics are a billion dollar growing industry that is pushed by the increased regulations and bans against plastic bags and other single-use plastic items. The demand for biodegradable plastics worldwide is growing as more people become concerned about plastic waste.

Consumer awareness of sustainable plastic solutions, government interest in the reduction of greenhouse gas emissions, and a pervasive, general desire to eliminate fossil fuel independence are the reasons for the market growth. Western Europe combines all of these factors and implements biodegradable plastics even in household and business products, such as foam packaging, mulch films, textiles, implants and sutures, down hole tools for oil and gas field operations, 3-D printing filament, etc.



## Biodegradable Plastic Market Revenue, 2015-2021 (\$ Million)





Biodegradable plastics is widely used in the packaging & bags industry. It is expected to be the fastest-growing end-use industry segment of the biodegradable plastics market between 2018 and 2023.





## **Machinery Photographs**



MAIZE MILLING EQUIPMENT



BOILER





#### **REFRIGERATION UNIT**



#### FERMENTATION TANK



						` in lacs)
COST OF PROJECT					ICE	
					Propose	
Existing	Proposed	Total	Particulars	Existing	d	Total
0.00	45.00	45.00	Capital	0.00	151.50	151.50
0.00	127.00	127.00	Share Premium	0.00	0.00	0.00
0.00	298.76	298.76	Capital	0.00	0.00	0.00
0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
0.00	45.00	45.00	Cash Subsidy	0.00	0.00	0.00
0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
			Long/Medium Term			
0.00	0.00	0.00	Borrowings	0.00	454.49	454.49
0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
			Unsecured			
0.00	28.00	28.00	Loans/Deposits	0.00	0.00	0.00
0.00	24.23	24.23				
0.00	605.99	605.99	TOTAL	0.00	605.99	605.99
	Existing 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ExistingProposed0.0045.000.00127.000.00298.760.00298.760.0045.000.0025.000.000.000.003.000.0028.000.0024.23	ExistingProposedTotal0.0045.0045.000.00127.00127.000.00298.76298.760.00298.7610.000.0045.0010.000.0045.0025.000.000.000.000.003.003.000.0028.0028.000.0024.2324.23	ExistingProposedTotalParticulars0.0045.0045.00Capital0.00127.00Share Premium Other Type Share0.00298.76298.76Capital0.00298.76298.76Capital0.0010.0010.00Reserves & Surplus0.0045.0045.00Cash Subsidy0.0025.0025.00Internal Cash Accruals Long/Medium Term0.003.003.00Debentures / Bonds Unsecured0.0028.0028.00Loans/Deposits0.0024.2324.2324.23	Existing Proposed Total Particulars Existing   0.00 45.00 45.00 Capital 0.00   0.00 127.00 127.00 Share Premium 0.00   0.00 298.76 298.76 Capital 0.00   0.00 298.76 298.76 Capital 0.00   0.00 298.76 298.76 Capital 0.00   0.00 10.00 Reserves & Surplus 0.00   0.00 45.00 45.00 Cash Subsidy 0.00   0.00 25.00 Internal Cash Accruals 0.00   0.00 0.00 Borrowings 0.00   0.00 3.00 Debentures / Bonds 0.00   0.00 28.00 Loans/Deposits 0.00   0.00 24.23 24.23	Existing Proposed Total Particulars Existing Propose d   0.00 45.00 45.00 Capital 0.00 151.50   0.00 127.00 Share Premium 0.00 0.00   0.00 127.00 Share Premium 0.00 0.00   0.00 298.76 298.76 Capital 0.00 0.00   0.00 298.76 298.76 Capital 0.00 0.00   0.00 10.00 Reserves & Surplus 0.00 0.00   0.00 45.00 Cash Subsidy 0.00 0.00   0.00 25.00 Internal Cash Accruals 0.00 0.00   0.00 0.00 Borrowings 0.00 454.49   0.00 3.00 Debentures / Bonds 0.00 0.00   0.00 28.00 28.00 Loans/Deposits 0.00 0.00   0.00 24.23 24.23



Yea r	Annu	alised	Boo k Valu e	Debt	Divid end		ained nings	Payo ut	Proba ble Marke t Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per \$	Per Share		Per Share				No.of Time	
	×	×	`	``	`	%	``	%	`	S	%
1-			14.1			100.					
2	4.19	8.80	9	24.00	0.00	00	4.19	0.00	4.19	1.00	0.00
2-			21.3			100.					
3	7.11	11.12	0	18.00	0.00	00	7.11	0.00	7.11	1.00	0.00
3-			31.2			100.					
4	9.98	13.46	9	12.00	0.00	00	9.98	0.00	9.98	1.00	0.00
			44.0			100.					
4-5	12.77	15.80	6	6.00	0.00	00	12.77	0.00	12.77	1.00	0.00
			59.4			100.					
5-6	15.43	18.08	9	0.00	0.00	00	15.43	0.00	15.43	1.00	0.00



Yea r	A D. S. C. R. Debt / Equity Total Retur Profitability Ratio - as- Net n on Depo Equity Wort Net sits h Wort Debt h					Asset s Turno ver Ratio	nt							
		Cumula tive	Over all					GPM	PBT	PAT	Net Contri bution			
	(Num	ber of ti	mes)	•	ber of les)	%	%	%	%	%		%		
Initi al				3.00	3.00									
1- 2	1.30	1.30		1.69	1.69	1.91		26.99 %	12.55%	9.80%	567.7 2	87.61 %	1.07	0.82
2-3	1.59	1.44		0.84	0.84	1.01		32.54 %	21.03%		661.6 3	87.52 %	1.20	1.37
3-4	1.95	1.60	1.94	0.38	0.38	0.51		36.31 %	26.97%		756.1 3	87.51 %	1.24	2.10
4-5	2.37	1.76		0.14	0.14	0.24		38.89 %	31.20%		850.6 3	87.51 %	1.20	3.00
5-6	2.87	1.94		0.00	0.00	0.08		40.62 %	34.21%		945.1 3	87.51 %	1.12	9.06



## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	56.66%
Total BEP (% of Installed Capacity)	60.90%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	24.88%
	2 Years 4
Payback Period of the Project is (In Years)	Months
Fixed Assets Coverage Ratio (No. of times)	3.387



## **Major Queries/Questions Answered in the Report?**

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



5. What is the structure of the Biodegradable Plastic Bags Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Corn Starch Bags Manufacturing Business?
- 7. What are the operating costs for setting up Corn Starch Bags Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up Corn Starch Bags Manufacturing plant ?



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Biodegradable Corn Starch Bags Manufacturing plant ?
- 10. What are the requirements of raw material for setting up Biodegradable Corn Starch Bags Manufacturing plant ?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Biodegradable Plastic Bags Manufacturing Business?
- 12. What is the Manufacturing Process of Biodegradable Plastic Bags ?



13. What is the total size of land required for setting up Corn Starch Bags Manufacturing plant ?

14. What will be the income and expenditures for Corn Starch Bags Manufacturing Business?

15. What are the Projected Balance Sheets of Corn Starch Bags Manufacturing plant ?

16. What are the requirement of utilities and overheads for setting up Corn Starch Bags Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Corn Starch Bags Manufacturing Business?



18. What are the Personnel (Manpower) Requirements for setting up Biodegradable Corn Starch Bags Manufacturing Business?

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22.What are the Project financials of Corn Starch Bags Manufacturing Business?



- 23. What are the Profitability Ratios of Corn Starch Bags Manufacturing Project?
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- 25. What are the Projected Pay-Back Period and IRR of Biodegradable Corn Starch 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







#### Scope of the Report

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



### Tags

#Corn Starch Bag, #Biodegradable Packaging, #Biodegradable & Compostable Packaging, #Biodegradable Plastic Bags from Corn, #Biodegradable Plastic Bags, #Corn Starch Bag Making, #Production of Cornstarch Bag, #Biodegradable Corn Starch Bag Manufacture, #Biodegradable Corn Starch Bag Production, #Corn Starch Packaging, #Corn Starch Bag Manufacture, How to Make Corn Starch Bags, Corn Starch Bag Making Unit, Corn Starch Bags Manufacturing Process, Biodegradable Eco-Friendly Disposable Bags, Biodegradable Plastic Bag, Biodegradable Disposable Bags, Compostable Plastic Shopping Bag, Biodegradable and Compostable Alternatives to Conventional Plastics, Compostable Bag Made of Corn Starch, Starch Bags: an Alternative to Plastic Ones, Corn Starch Bags, Compostable Bag Made of Corn Starch, Corn Starch Biodegradable Bags, Corn Starch Biodegradable Bags, Compostable Bags, Biodegradable Bags Manufacturing Process, Eco-Friendly Corn Starch Bags, Biodegradable Plastic Bag Manufacturing Unit,

Biodegradable Plastic Bag Making, Compostable and Biodegradable Bags Manufacturing, Production of Biodegradable and Compostable Bags, Eco Friendly Bag Making, Project Report on Biodegradable Bags Manufacturing Industry, Detailed Project Report on Biodegradable Bags Manufacturing, Project Report on Biodegradable Corn Starch Bag Production, Pre-Investment Feasibility Study on Biodegradable Bags Manufacturing, Techno-Economic feasibility study on Biodegradable Corn Starch Bag Production, Feasibility report on Biodegradable Corn Starch Bag Production, Free Project Profile on Biodegradable Corn Starch Bag Production, Project profile on Biodegradable Corn Starch Bag Production, Download free project profile on Biodegradable Corn Starch Bag Production



**Niir Project Consultancy Services (NPCS)** can provide Detailed Project Report on **Biodegradable Plastic Bag** Manufacturing Industry. **Production of Compostable and Biodegradable Bags from Corn Starch. Eco-Friendly Disposable Bags** 

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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.



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.

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......<u>Read more</u>



### **Contact us**

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### 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**

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