



**Profitable Business Ideas-
Biodegradable Tableware from
Corn Starch
(Maize Starch, or Corn Flour)
Eco-Friendly Business Ideas
for Startup**



Introduction



Biodegradable tableware is an alternate to tableware products derived from plastic. Manufacturers are keen on production of biodegradable tableware from biodegradable waste. Residual by-products of sugarcane extraction, rice bran, wheat, and maize are a number of the raw materials leveraged to manufacture biodegradable tableware. Furthermore, manufacturers are exploring recyclable waste such fallen palm leaves and paper waste so as to broaden the horizon of their product lines. Biodegradable tableware includes food containers and tableware such as bowls, plates, cups and meal trays which will decompose within months of being discarded.

Related Projects: - [Biodegradable Products, Recyclable, Disposable, Eco-Friendly Plastics, Bioplastics](#)

Packaging waste has been observed to be a big a part of municipal solid waste and has caused increasing environmental concern. Current packaging solutions such as oil-based polymers are virtually non-biodegradable. Some packaging solutions are difficult to recycle or maybe reuse. Additionally thereto, these tableware products are suitable for the handling of both hot and cold beverages and comprises of high strength and rigidity. Moreover, the increase in consumer consciousness towards environment is another notable attribute that's anticipated to drive the market growth.

Related Books: - [Environmentally Friendly, Eco-Friendly Products, Natural Products, Biodegradable Plastics](#)



How Big Is The Opportunity?

Market for plastic based tableware is estimated to be nearly 3 lakh tonnes per annum, assuming that biodegradable cutlery can initially replace 25% of the plastic based products, its market could be around 70,000 tonnes per annum.

The product finds acceptance in quick service restaurants, schools, cinema halls, temples and organizations such as Railways that provide catering services to their passengers. In addition it could also be bought by caterers, who are currently using plastic table ware.

Related Videos:- [Biodegradable Products, Recyclable, Disposable, Eco-Friendly Plastics, Bioplastics, Compostable, Biodegradable Packaging for Food Products](#)



Advantages

1. Disposable corn starch tableware is a new type of starch tableware developed by high-tech such as corn starch, tapioca starch, soybean starch, and potato starch, which is harmless to the human body.
2. The starch tableware product is buried in the soil and can degrade to form carbon dioxide and water after 90 days at a suitable temperature without causing pollution to the soil and air.
3. Starch is a renewable resource that is inexhaustible and inexhaustible, while paper tableware and plastic tableware require a small amount of wood and petrochemicals. Using corn starch as a raw material can save a small amount of oil and forest resources.

Related Project: - [Corn Starch Based Biodegradable Tableware](#)

4. High quality: starch tableware products have good density, water resistance, oil resistance, anti-soaking, good low temperature and high temperature resistance, suitable for refrigerator freezing, cold storage, fresh food, microwave heating, etc.

5. It is a degradable tableware and degrades even if it is randomly thrown away.

Application:

- Hotel
- Catering
- Others

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

Manufacturing Process

1- Biodegradable Granule Production

Starch is mixed with some other additives manually or automatic. Prepared mixture of starch and additives enter to a high speed mixer. After keeping in high speed mixing and high temperature, output leaves the hot high speed mixer to a cooling mixer. Almost white granule is output of cooling process which can be formed a sheet.

2- Starch SHEET Production

Prepared Granule at the previous stage enters to a sheet extruder machine. Extruder machine forms various sheet of thickness 0.22 to 2.2 mm from granule. These sheets can be used in vacuum or pressure forming machines to be formed to starch tableware.

Books:- [BOOKS & DATABASES](#)

3- Forming

Sheets produced by extruder is used by a vacuum or pressure forming machine with various dies to form different bowls, cups, trays, food containers and etc. In both pressure and vacuum forming, tableware are formed by air either negative or positive pressure.

4- Trimming and Recycling

From each sheets many pieces of tableware produced simultaneously, so they need to be separated from each other by trimming. Trimmed material is used to be recycled by a waste crushing machine to be used in the production process again.

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

5- Quality Control and Packing

All products are inspected and they would be recycled in case of low quality. Products which quality controls are stored at the ware house for market delivery.

Market Outlook

Biodegradable Tableware are fully compostable and biodegradable products that can be made from several types of natural materials such as sugarcane bagasse, bamboo, paper pulp, palm leaves, agricultural residues and other disposable material (cornstarch-based PLA plastic is also a sustainable alternative but is not capable of breaking down on its own in normal conditions).

By Application, the market is classified into Household and Commercial. The Global Biodegradable Tableware Market was valued at USD 2,754.9 Million in 2018 and is projected to reach USD 4,355.1 Million by 2026, growing at a CAGR of 6.01% from 2019 to 2026.

Related Projects: - [Disposable Products and Projects from Paper, Plastic, Thermocol, Banana Leaves](#)

Global Biodegradable Tableware marketplace for the Commercial segment is predicted to be largest also as fastest-growing during the forecast period. The commercial segment includes hotels, restaurants, fast-food chains, and online food stores. With the increasing internet penetration alongside the supply of various online foodservice applications, there's an increasing demand for food delivery services that uses [biodegradable](#) cutlery, plates, and cups. Increasing preference for environment-friendly tableware and rising concerns regarding the ill-effects of plastic tableware are boosting the biodegradable tableware market. Rising emphasis on non-toxic & petroleum-free is predicted to drive the demand for Biodegradable Tableware within the residential and commercial segments. Rising income alongside increasing consumer awareness about the advantages related to the utilization of [biodegradable](#) tableware is predicted to drive the market during the forecast period.

Additionally, increasing economic awareness about the utilization of plastic and other toxic material tableware, in terms of their price, among consumers provides them the advantage of choice and also simultaneously creates competition within the market so as to supply highest quality products. In India, biodegradable products made up of bamboo were traditionally utilized in rural areas; over the years, this trend has spread to the urban areas further. However, in certain parts of the world, these tableware, especially those made up of bamboo, are expensive. Consumer product packaging and disposable eating products made from biodegradable material such as corn, sugarcane, husk, and other plant bases possess numerous environmental advantages over non-biodegradable products. These factors including rising investment in research and development is anticipated to spice up to the market.

Rising demand for eco-friendly, safe, and sustainable cutlery owing to increasing number of restaurants, fast food joints, and cafeterias is fueling the demand for biodegradable plates and cups. Environment friendly cutleries are a feasible alternative that offers the convenience of disposable plates, cups, and spoon in picnics, parties, and other occasions. Moreover, they do not have any negative impact on the environment.

The Global Biodegradable Tableware Market has witnessed substantial growth over the last few years owing to the increasing consumer preference for environmentally friendly products. However, the demand for biodegradable tableware is increasing gradually across the globe due to increasing focus on environmental consciousness.



Consumer awareness regarding the water and land pollution caused by single-use products is increasing, fueling the demand for biodegradable tableware to counter the risk of air and land pollution caused by toxic substances in plastic. The demand for [biodegradable tableware](#) can also be attributed to the rising trend of on-the-go food products. Consumer preference for online food delivery and takeaway is also expected to fuel the growth of the market.

Increasing consumer awareness regarding the detrimental effects of using non-biodegradable products is among the key factors driving the growth of the market. Furthermore, the implementation of favorable government regulations discouraging the use of plastic tableware and other products is also providing a boost to the market growth.



Top Key Players : Biotrem, Georgia-Pacific, DOpla SpA, Huhtamaki, Natural Tableware, Pactiv LLC, PAPSTAR GmbH, SOLIA, Eco-Products, Inc, Al Bayader International, Dart Container Corporation, Reynolds Consumer Products, Dinearth, Yash Pakka Limited, Cosmos Eco Friends, Visfortec, Xiamen Greenday Import & Export Co., Ltd., Pappco Greenware, among other domestic and global players.



Dryer



Sealing Machine



Packing Conveyor



Extruder

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site							
Development Exp.	0.00	26.00	26.00	Capital	0.00	39.64	39.64
Buildings	0.00	43.20	43.20	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	39.75	39.75	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	4.00	4.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	20.50	20.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	5.00	5.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	118.93	118.93
Preliminary & Pre-							
operative Exp	0.00	1.00	1.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	3.75	3.75	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	15.37	15.37				
TOTAL	0.00	158.57	158.57	TOTAL	0.00	158.57	158.57

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					
						%		%		No. of Times	%
1-2	5.53	9.04	15.53	24.00	0.00	100.00	5.53	0.00	5.53	1.00	0.00
2-3	8.93	12.02	24.47	18.00	0.00	100.00	8.93	0.00	8.93	1.00	0.00
3-4	12.19	14.90	36.65	12.00	0.00	100.00	12.19	0.00	12.19	1.00	0.00
4-5	15.24	17.63	51.89	6.00	0.00	100.00	15.24	0.00	15.24	1.00	0.00
5-6	18.06	20.17	69.95	0.00	0.00	100.00	18.06	0.00	18.06	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	1.35	1.35		1.55	1.55	2.20		17.41%	9.94%	6.80%	207.73	64.45%	1.68	1.06
2-3	1.74	1.53		0.74	0.74	1.21		20.67%	14.47%	9.42%	229.71	61.09%	1.78	1.39
3-4	2.17	1.73	2.16	0.33	0.33	0.69		22.81%	17.58%	11.24%	262.22	61.02%	1.78	1.82
4-5	2.67	1.94		0.12	0.12	0.40		24.18%	19.68%	12.49%	294.74	60.96%	1.70	2.32
5-6	3.22	2.16		0.00	0.00	0.23		25.00%	21.07%	13.33%	327.25	60.92%	1.58	3.91

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	62.22%
Total BEP (% of Installed Capacity)	64.77%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.76%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	5.974

Major Queries/Questions Answered in the Report?

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

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

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

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

Tags

#biodegradabletableware

#disposableplatesandcutlery

#sustainablepackaging

#CornStarch

#CornStarchMarket

#Foodandbeverage

#cornstarchmarketreport

#ecofriendlyproducts

#biodegradableproduct

#CPLAandPLA

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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:

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- **Export-Import Market Potential**
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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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- *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

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 *Conti...*

- 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

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries

Sectors We Cover

Cont...

- 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.

Sectors We Cover *Cont...*

- 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...*

- 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...*

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

MARKET RESEARCH REPORTS

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

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

Cont

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

Take a look at ***NIIR PROJECT CONSULTANCY SERVICES*** on
#Street View

<https://goo.gl/VstWkd>

Contact us

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

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Thank You

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