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

(in 1,000 tonnes)

- Biodegradable
- Biobased/non-biodegradable
- Forecast
- Total capacity

Year | Biodegradable | Biobased/non-biodegradable | Forecast | Total capacity
--- | --- | --- | --- | ---
2013 | 591 | 990 |  | 1,581
2014 | 663 | 1,034 |  | 1,697
2015 | 737 | 1,291 |  | 2,028
2016 | 762 | 1,291 |  | 2,053
2017 |  | 2,511 | 901 | 3,412
2018 |  | 5,511 | 6,798 | 1287
2019 |  | 6,561 | 7,848 | 1,287

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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: 10%
- Extruded Starch: 15%
- Polylactic Acid (PLA): 15%
- Thermoplastic Starch/ Blends: 20%
- Polyhydroxyalkanoates (PHAs) and others: 40%
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

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### Project at a Glance

#### Project at a Glance

<table>
<thead>
<tr>
<th>Cost of Project</th>
<th>Means of Finance</th>
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## Project at a Glance

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<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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## Project at a Glance

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<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Asset Turnover Ratio</th>
<th>Current Ratio</th>
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## Project at a Glance

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<td>BEP - Maximum Utilisation Year</td>
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<td>Total BEP (% of Installed Capacity)</td>
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<td><strong>IRR, PAYBACK and FACR</strong></td>
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<td>Internal Rate of Return .. ( In %age )</td>
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<td>Payback Period of the Project is ( In Years )</td>
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<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
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</table>
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?

16. What are the requirement of utilities and overheads for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?

19. What are Statistics of Import & Export for Bio-Plastic Products (Glasses, Plates and Bags)?

20. What is the time required to break-even of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?

21. What is the Break-Even Analysis of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant?

22. What are the Project financials of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?
23. What are the Profitability Ratios of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing project?
27. What are the Market Opportunities for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing plant?

28. What is the Market Study and Assessment for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?

29. What is the Plant Layout for setting up Bio-Plastic Products (Glasses, Plates and Bags) Manufacturing Business?
Table of Contents of the Project Report
1. PROJECT LOCATION

1.1. DISTRICT PROFILE AND GEOTECHNICAL SITE CHARACTERIZATION
1.1.1. General
1.1.2. Climate and Rainfall
1.1.3. Map
1.1.4. Transport
1.1.5. Economy and Industry

2. INTRODUCTION

2.1. ROLE OF GOVERNMENT ON BIODEGRADABLE PLASTIC PRODUCTS

3. BIODEGRADABLE PLASTIC PRODUCTS – BAGS

3.1. TYPES OF BIODEGRADABLE BAGS

4. BIODEGRADABLE POLYESTERS

4.1. PHYSICAL & CHEMICAL PROPERTIES
4.2. SPECIAL CASE OF BIO-PLASTICS
5. USES & APPLICATION OF BIO-PLASTICS

5.1. AREAS OF APPLICATION
5.2. PROPERTIES OF BIODEGRADABLE PLASTIC PRODUCTS
5.3. ADVANTAGES TO USING BIODEGRADABLE PLASTIC PRODUCTS
5.4. DISADVANTAGES OF BIO-PLASTICS

6. CHEMISTRY OF BIODEGRADABLE PLASTIC

7. B.I.S. SPECIFICATIONS

7.1. IS/ISO 17556: 2003 PLASTICS –
7.2. IS/ISO 15985: 2004 PLASTICS –
7.3. TEST & STANDARD FOR BIODEGRADABLE/ COMPOSTABLE PLASTICS

8. MARKET SURVEY

9. EXPORT & IMPORT: ALL COUNTRIES

9.1. EXPORT: ALL COUNTRIES
9.2. IMPORT: ALL COUNTRIES
10. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

10.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
10.2. PROFITS & APPROPRIATIONS
10.3. TOTAL LIABILITIES
10.4. TOTAL ASSETS
10.5. NET CASH FLOW FROM OPERATING ACTIVITIES
10.6. SECTION – I
  10.6.1. Name of Company with Contact Details
  10.6.2. Name of Director (s)
  10.6.3. Plant Capacity
  10.6.4. Location of Plant
  10.6.5. Name of Raw Material(s) Consumed With Quantity & Cost
10.7. SECTION – II
  10.7.1. Assets
  10.7.2. Cash Flow
  10.7.3. Cost as % Ge of Sales
  10.7.4. Forex Transaction
  10.7.5. Growth in Assets & Liabilities
  10.7.6. Growth in Income & Expenditure
  10.7.7. Income & Expenditure
10.7.8. Liabilities
10.7.9. Liquidity Ratios
10.7.10. Profitability Ratio
10.7.11. Profits
10.7.12. Return Ratios
10.7.13. Structure of Assets & Liabilities (%)
10.7.14. Working Capital & Turnover Ratios

11. RAW MATERIALS

12. MANUFACTURING PROCESS

13. SPECIFICATION OF THERMOFORMING MACHINES

14. PRINTING ON GLASSES AND PLATES
14.1. ROTO GRAVURE PRINTING
14.2. MULTICOLOUR PRINTING

15. GASEOUS STERILIZATION OF BIO-PLASTIC PRODUCTS WITH ETHYLENE OXIDE
16. PROCESS FLOW DIAGRAM

17. MACHINERY SPECIFICATIONS

18. WASTE WATER TREATMENT PLANTS
   18.1. BIO-PLASTIC CYCLE
   18.2. END-OF-LIFE
   18.3. CYCLE TIME
   18.4. ENVIRONMENTAL CONSIDERATION

19. SUPPLIERS OF PLANT & MACHINERY

20. SUPPLIERS OF RAW MATERIALS

21. PHOTOGRAPHS/IMAGES FOR REFERENCE
   21.1. MACHINERY PHOTOGRAPHS
   21.2. RAW MATERIAL IMAGES
   21.3. PRODUCT PHOTOGRAPHS

22. PLANT LAYOUT
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Annexure

- Factory Land & Building
- Site Development Expenses
• Plant & Machinery
  Indigenous Machineries
  Other Machineries (Miscellaneous, Laboratory etc.)

• Other Fixed Assets
  Furniture & Fixtures
  Pre-operative and Preliminary Expenses
  Technical Knowhow
  Provision of Contingencies

• Working Capital Requirement Per Month
  Raw Material
  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store
• Overheads Required Per Month and Per Annum…………………………..8
  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

• Salary and Wages …………………………………………………………………9

• Turnover Per Annum ……………………………………………………………10

• Share Capital……………………………………………………………………11
  Equity Capital
  Preference Share Capital

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• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
• Annexure 3 :: Assessment of Working Capital requirements
  ▪ Current Assets
  ▪ Gross Working Capital
  ▪ Current Liabilities
  ▪ Net Working Capital
  ▪ Working Note for Calculation of Work-in-process

• Annexure 4 :: Sources and Disposition of Funds
• Annexure 5 :: Projected Balance Sheets
  - ROI (Average of Fixed Assets)
  - RONW (Average of Share Capital)
  - ROI (Average of Total Assets)

• Annexure 6 :: Profitability Ratios
  - D.S.C.R
  - Earnings Per Share (EPS)
  - Debt Equity Ratio
Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
• Annexure 12 :: Shareholding Pattern and Stake Status
  ▪ Equity Capital
  ▪ Preference Share Capital
• Annexure 13 :: Quantitative Details-Output/Sales/Stocks
  ▪ Determined Capacity P.A of Products/Services
  ▪ Achievable Efficiency/Yield % of Products/Services/Items
  ▪ Net Usable Load/Capacity of Products/Services/Items
  ▪ Expected Sales/ Revenue/ Income of Products/ Services/ Items
• Annexure 14 :: Product wise Domestic Sales Realisation

• Annexure 15 :: Total Raw Material Cost

• Annexure 16 :: Raw Material Cost per unit

• Annexure 17 :: Total Lab & ETP Chemical Cost

• Annexure 18 :: Consumables, Store etc.

• Annexure 19 :: Packing Material Cost

• Annexure 20 :: Packing Material Cost Per Unit
<table>
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• Annexure 29 :: Depreciation Charges – as per Books (Total)
• Annexure 30 :: Depreciation Charges – as per Books (P & M)
• Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)
• Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)
• Annexure 33 :: Interest and Repayment - Term Loans
• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
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.

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• 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 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.
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:
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.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Production of Bioplastic Products. Biodegradable and Bio-Plastics Products Manufacturing Business. Glasses, Plates and Bags Manufacturing Project.

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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.

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- 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.
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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.

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Our Approach

1. Requirement collection
2. Thorough analysis of the project
3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation
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