Bioplastics & Biodegradable Products Manufacturing Handbook

(Bioplastic Carry Bags, Bio-PET, Bio Plastic Drinking Straws, Corn and Rice Starch-Based Bio-Plastics, Food Packaging Applications, Cassava Bags, Biodegradable Tableware, Biodegradable Plates, Biodegradable Toilet Paper, Starch Based Biodegradable Plastics, Polylactic Acid (PLA))

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Bioplastics & Biodegradable Products

Manufacturing Handbook

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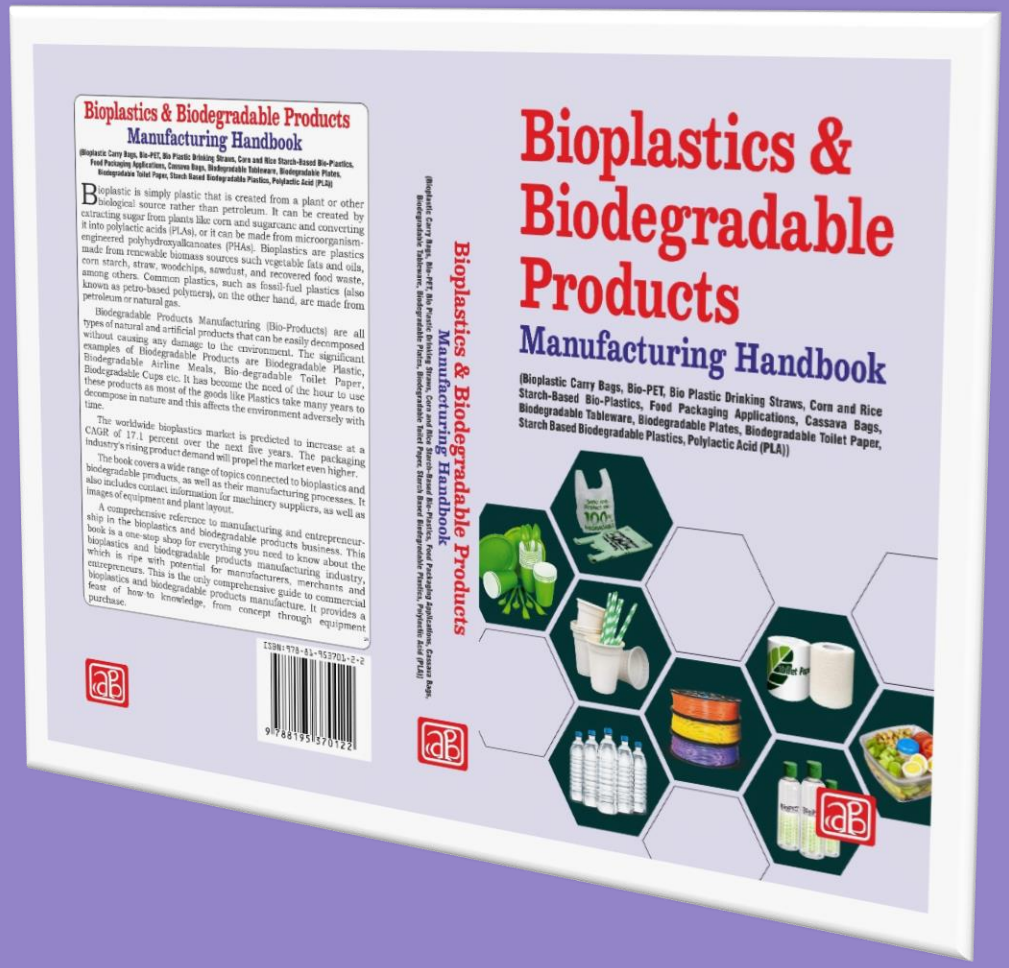
Introduction

Bioplastics and biodegradable products are made from natural resources rather than petroleum, which makes them great eco-friendly alternatives to traditional plastics and harmful chemical substances like bisphenol A (BPA).

But how do you produce bioplastics? This comprehensive guide on bioplastics manufacturing will show you the entire process from start to finish, including the methods and processes used to convert plants into bioplastics like polylactic acid (PLA), bio-PET, and starch-based plastic bottles.

This Handbook is a comprehensive guide for anyone who wishes to develop and manufacture bioplastics and biodegradable products (e.g., compostable bags, plates, cups, etc.).

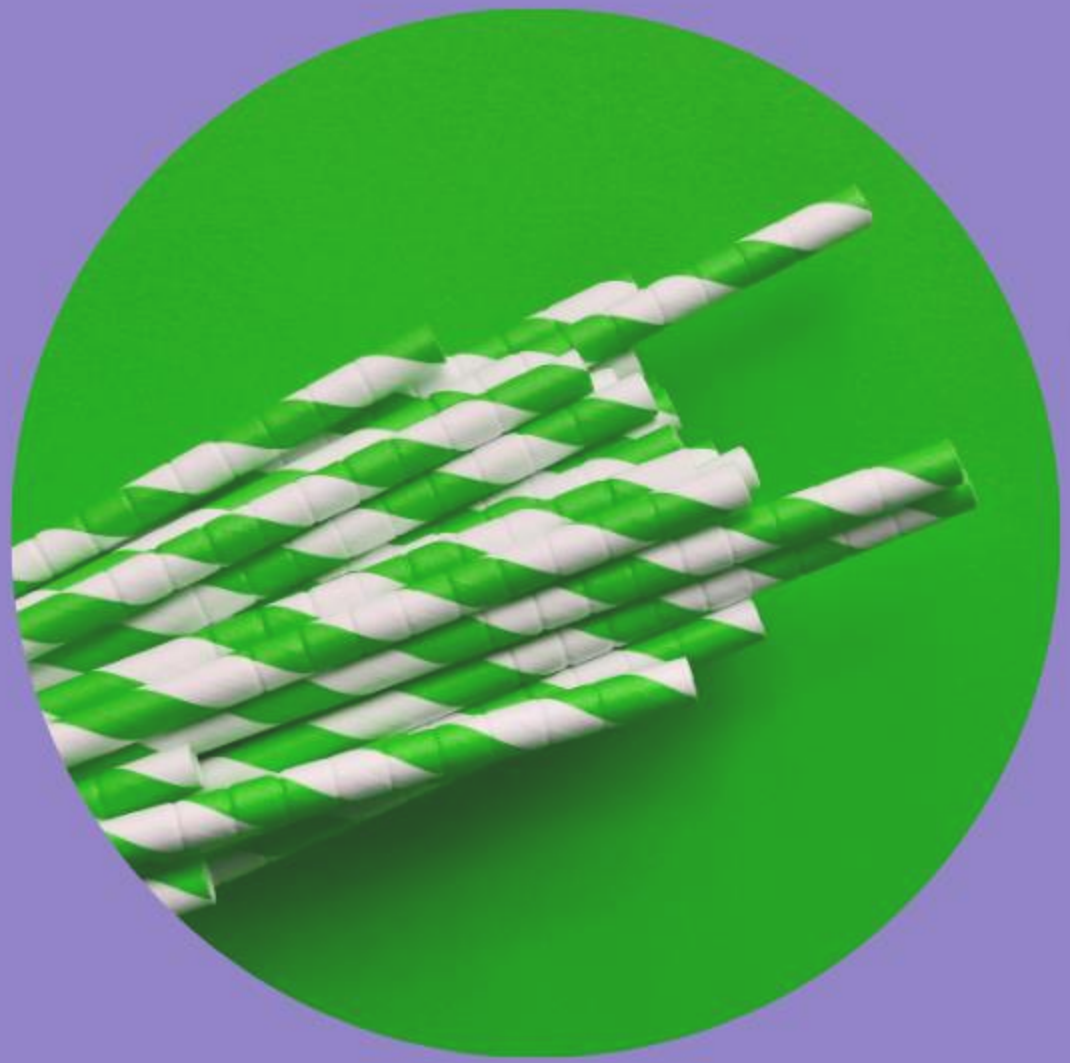


Bioplastic

Bioplastic is simply plastic that is created from a plant or other biological source rather than petroleum. It can be created by extracting sugar from plants like corn and sugarcane and converting it into polylactic acids (PLAs), or it can be made from microorganism-engineered polyhydroxyalkanoates (PHAs).

Bioplastics are plastics made from renewable biomass sources such vegetable fats and oils, corn starch, straw, woodchips, sawdust, and recovered food waste, among others. Common plastics, such as fossil-fuel plastics (also known as petro-based polymers), on the other hand, are made from petroleum or natural gas.

Biodegradable Products Manufacturing (Bio-Products) are all types of natural and artificial products that can be easily decomposed without causing any damage to the environment. The significant examples of Biodegradable Products are Biodegradable Plastic,



Biodegradable Airline Meals, Bio-degradable Toilet Paper, Biodegradable Cups etc. It has become the need of the hour to use these products as most of the goods like Plastics take many years to decompose in nature and this affects the environment adversely with time.

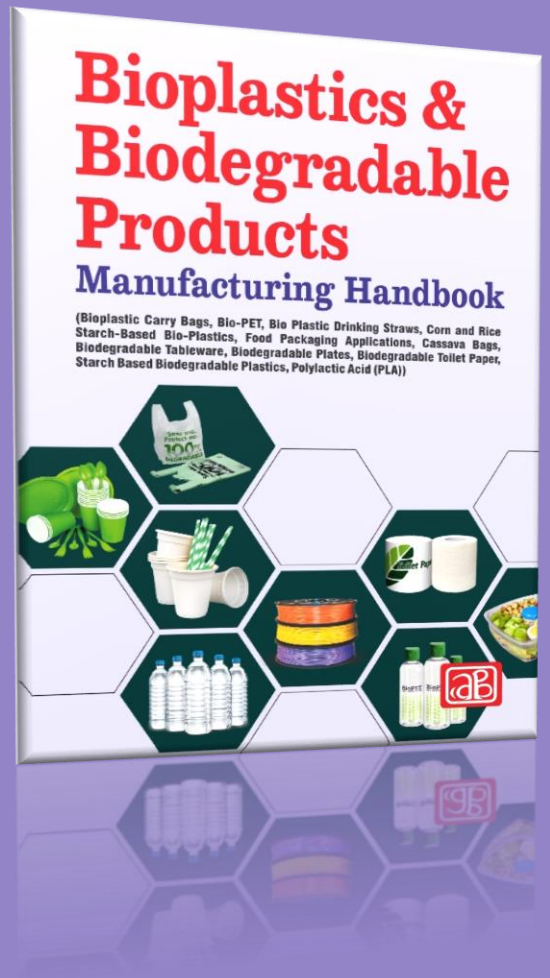
Market Outlook:

The worldwide bioplastics market is predicted to increase at a CAGR of 17.1 percent over the next five years. The packaging industry's rising product demand will propel the market even higher. By Applications, Packaging, Agriculture and Consumer Goods, Packaging is the chief use for biodegradable plastics.

Wherein flexible packaging uses biodegradable plastics, large multinationals in the consumer-packaged goods, retailers, and foodservice sectors have also made progress or declared intentions to scale biodegradable plastic usage dramatically. Consequently, drive the demand for biodegradable packaging for fresh produce and food cutlery and compostable bags across the globe. In addition, several e-commerce giants have also prompted a switch to biodegradable packaging, encouraging the biodegradable demand in online goods and food delivery.

Similarly, agriculture also uses biodegradable plastics. The agricultural mulching film is used to improve crop yield in many countries. The traditional mulching film is difficult to collect from the field and can lead to severe plastic pollution in the soil. The biodegradable mulching film has, therefore, been tested and developed to be an alternative. Though its soil biodegradability and consequences are not fully understood, many countries have applied it to a larger scale.

The book covers a wide range of topics connected to bioplastics and biodegradable products, as well as their manufacturing processes. It also includes contact information for machinery suppliers, as well as images of equipment and plant layout.



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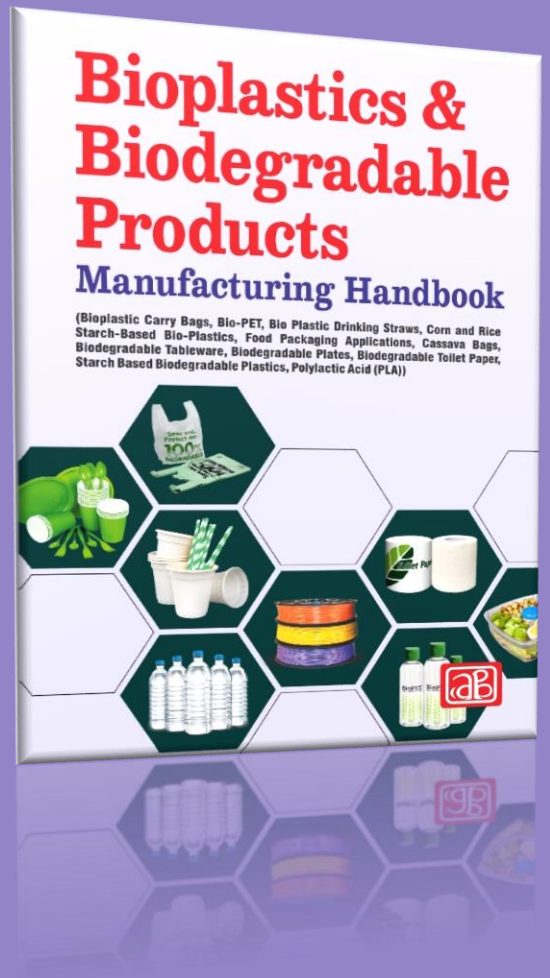
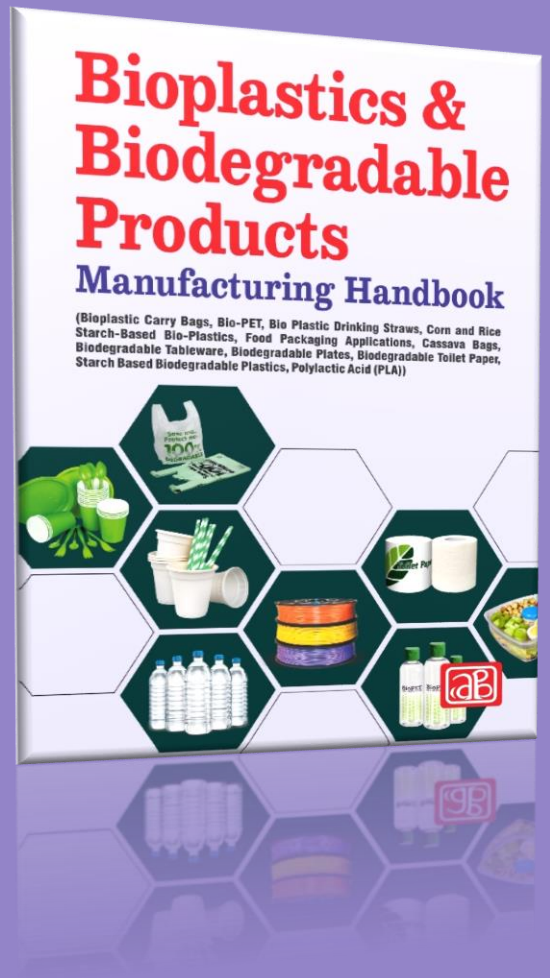


A comprehensive reference to manufacturing and entrepreneurship in the bioplastics and biodegradable products business. This book is a one-stop shop for everything you need to know about the bioplastics and biodegradable products manufacturing industry, which is ripe with potential for manufacturers, merchants, and entrepreneurs.



This is the only comprehensive guide to commercial bioplastics and biodegradable products manufacture. It provides a feast of how-to knowledge, from concept through equipment purchase.

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- Individual Entrepreneurs
- NRI's
- Foreign Investors
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- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

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- Requirement collection
- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation

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- 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
- 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
- Copper & Copper Based Projects

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- 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
- 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
- Infrastructure Projects
- Jute & Jute Based Products

Sectors We Cover *Cont...*

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

Objective

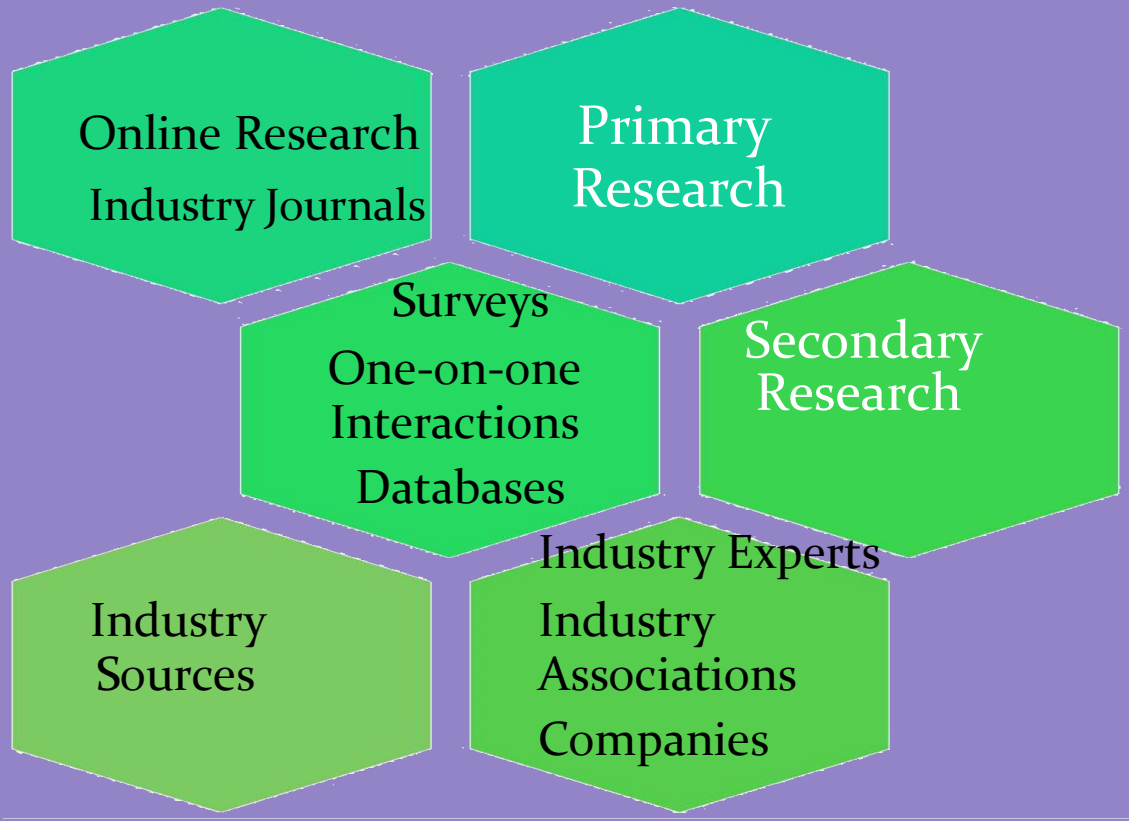
- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
  - Growth drivers of the industry
  - Latest market trends
  - Insights on regulatory framework
  - SWOT Analysis
  - Demand-Supply Situation
  - Foreign Trade
  - Porters 5 Forces Analysis
- 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

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