



Biobutanol -Investment Opportunity

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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

Introduction

Butanol ($C_4H_{10}O$) or butyl alcohol is an alcohol that can be used as a solvent or fuel. Biobutanol refers to butanol that has been produced from biomass. Biobutanol is produced by a microbial fermentation, similar to ethanol and can be made from the same range of sugar, starch or cellulosic feed stocks. Biobutanol production is currently more expensive than ethanol so it has not been commercialized on a large scale.

However, biobutanol has several advantages over ethanol and is currently the focus of substantial research and development

Bio butanol industry offers a unique set of investment opportunities, depending on the location and proximity of available biomass as well as demand and dynamics.

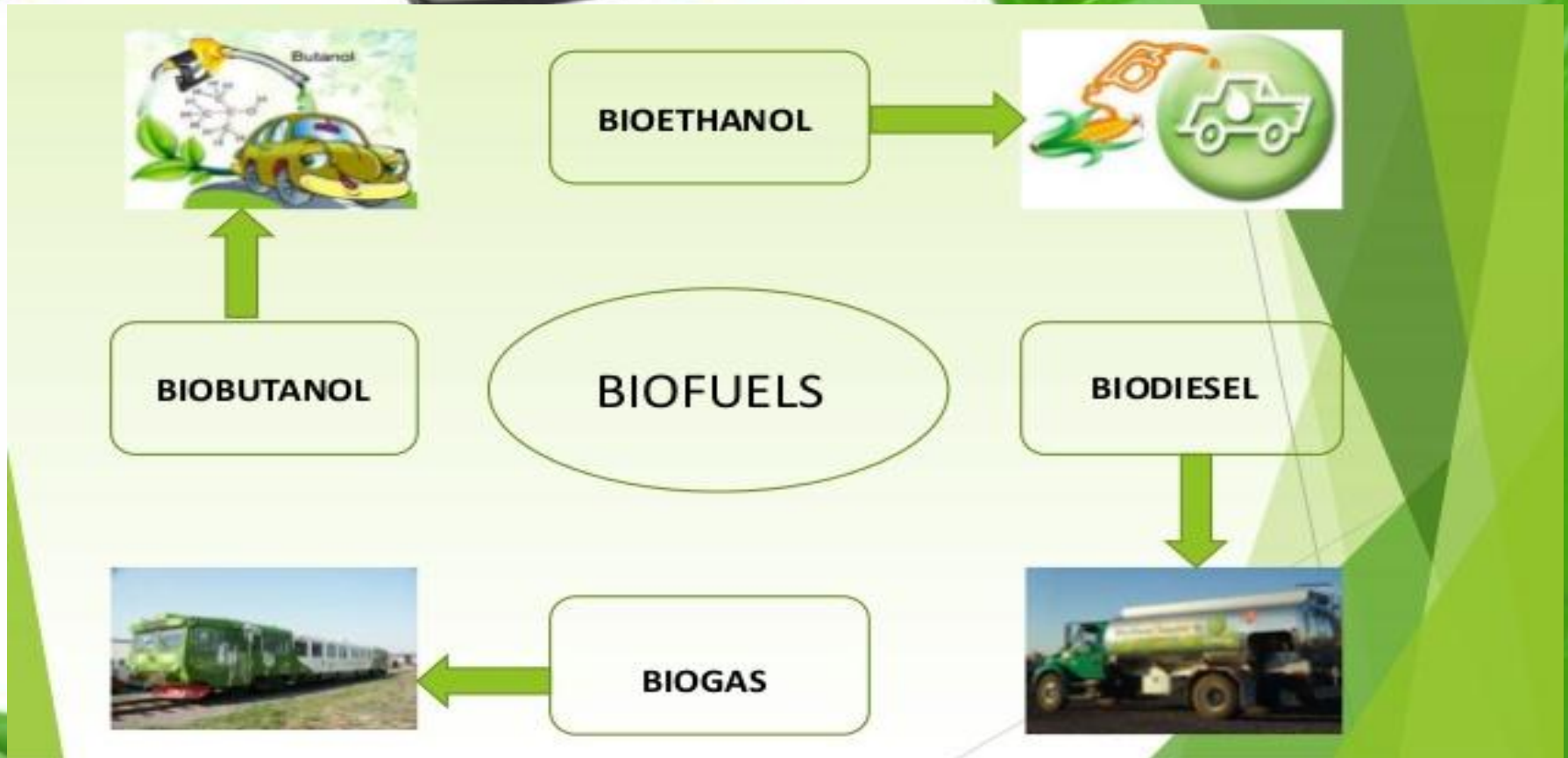
Similar to synthetic butanol, bio butanol is used in paints, lacquers and other surface coatings; chemical markets including plastics and synthetic rubber; and for fuels production.

Bio Butanol Blended Fuels

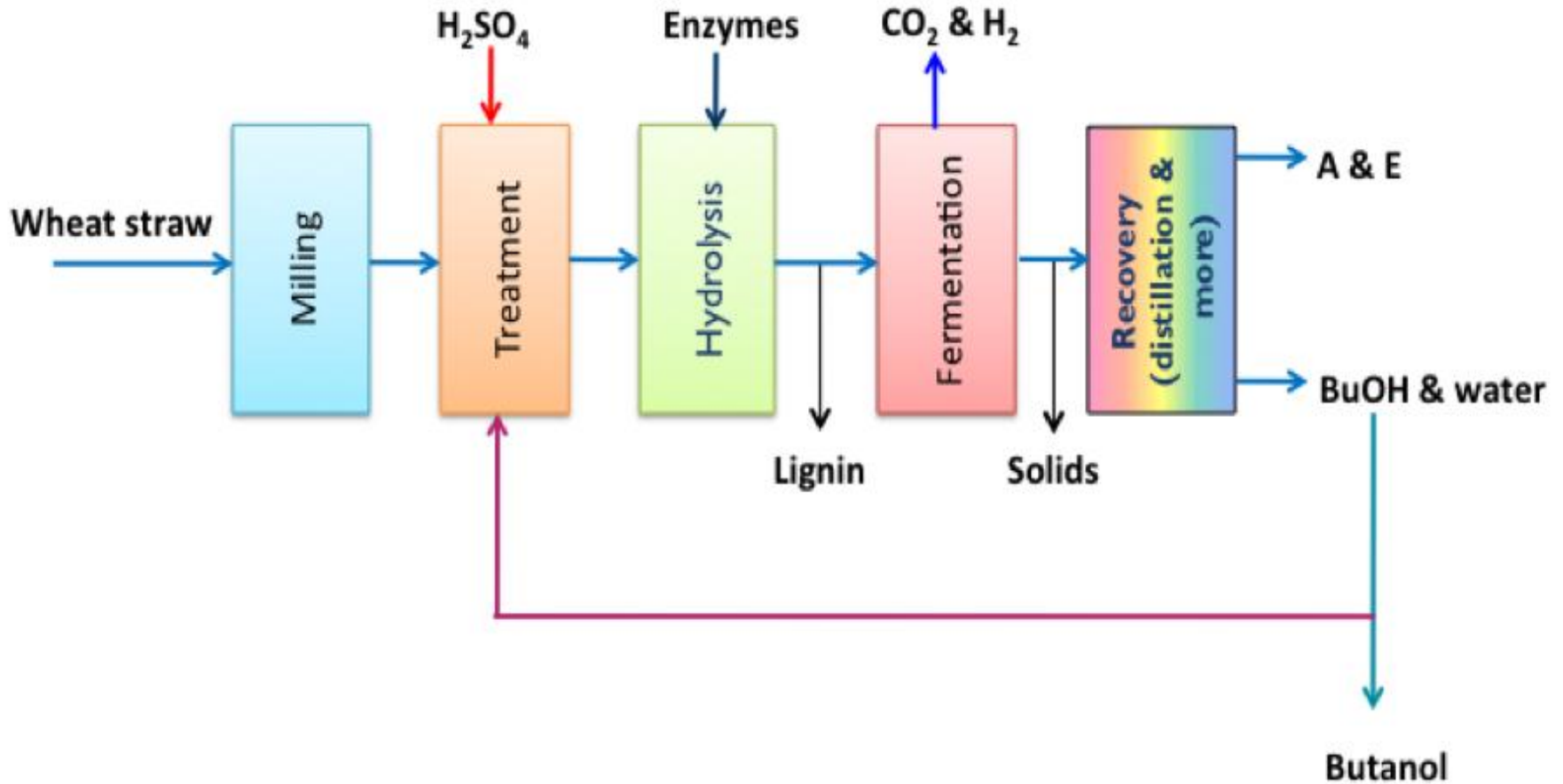
Bio butanol blended fuels are especially valuable for use in marine engines, as they are highly resistant to phase separation in the presence of water and have been demonstrated to offer a high level of compatibility with the materials commonly employed in engines and fuel-handling equipment.



Biobutanol



Biobutanol Production



Market Outlook

Bio-butanol is expected to fulfill about 20% of the global domestic gas and diesel requirement. Butanol is being considered as a suitable and safe biofuel alternative to ethanol. Bio-butanol is mixed in various proportions with gasoline to be used as Bio-Fuels, as a gasoline, diesel and jet fuel replacement. It is used in adhesives, paints, personal care products, cleaners and other high end applications-jet fuel, bio based plastics and synthetic rubber, fibres etc.

Butanol is seen as a potential alternative to ethanol as it has 30 percent more energy per gallon than ethanol. The current global demand for butanol is exceeding 1.2 billion gallons per year and it has been valued over \$6 billion annually. This high-value market will expand significantly as bio-butanol will make pathways to other chemical derivatives. In other industrial chemical markets it has a global presence of over \$5 billion.

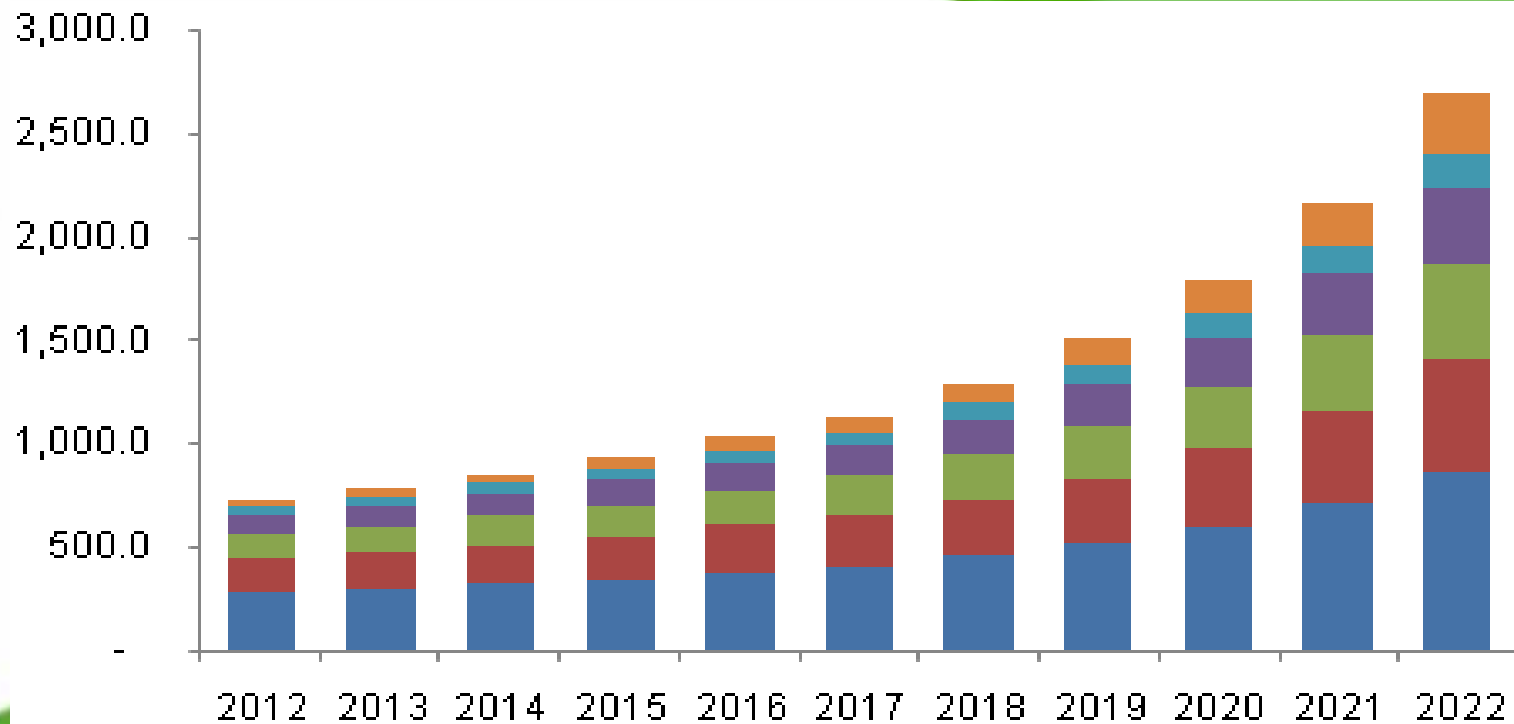
Indian Import of Butanol

Year (April to March)	Import In metric tonne
2012-13	72579
2013-14	89366
2014-15	56953
2015-16	62511

The global bio-butanol market is expected to reach USD 17.78 billion by 2022.

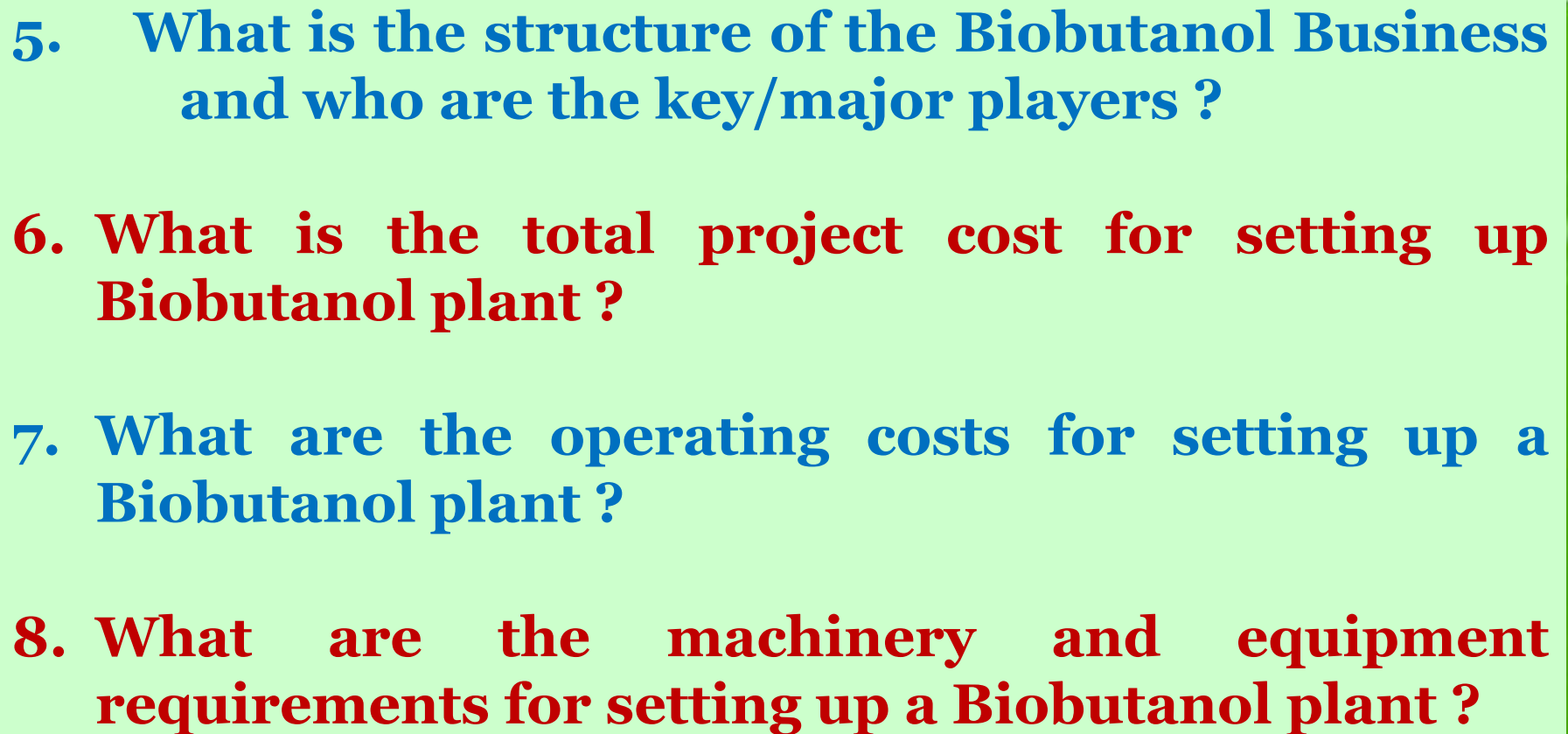
Bio-butanol demand in acetates exceeded 780 kilo tons in 2014. Growing demand from the textile industry is expected to stimulate growth over the next seven years. They are increasingly being used in detergents, cleaners and polishes which has augmented growth.

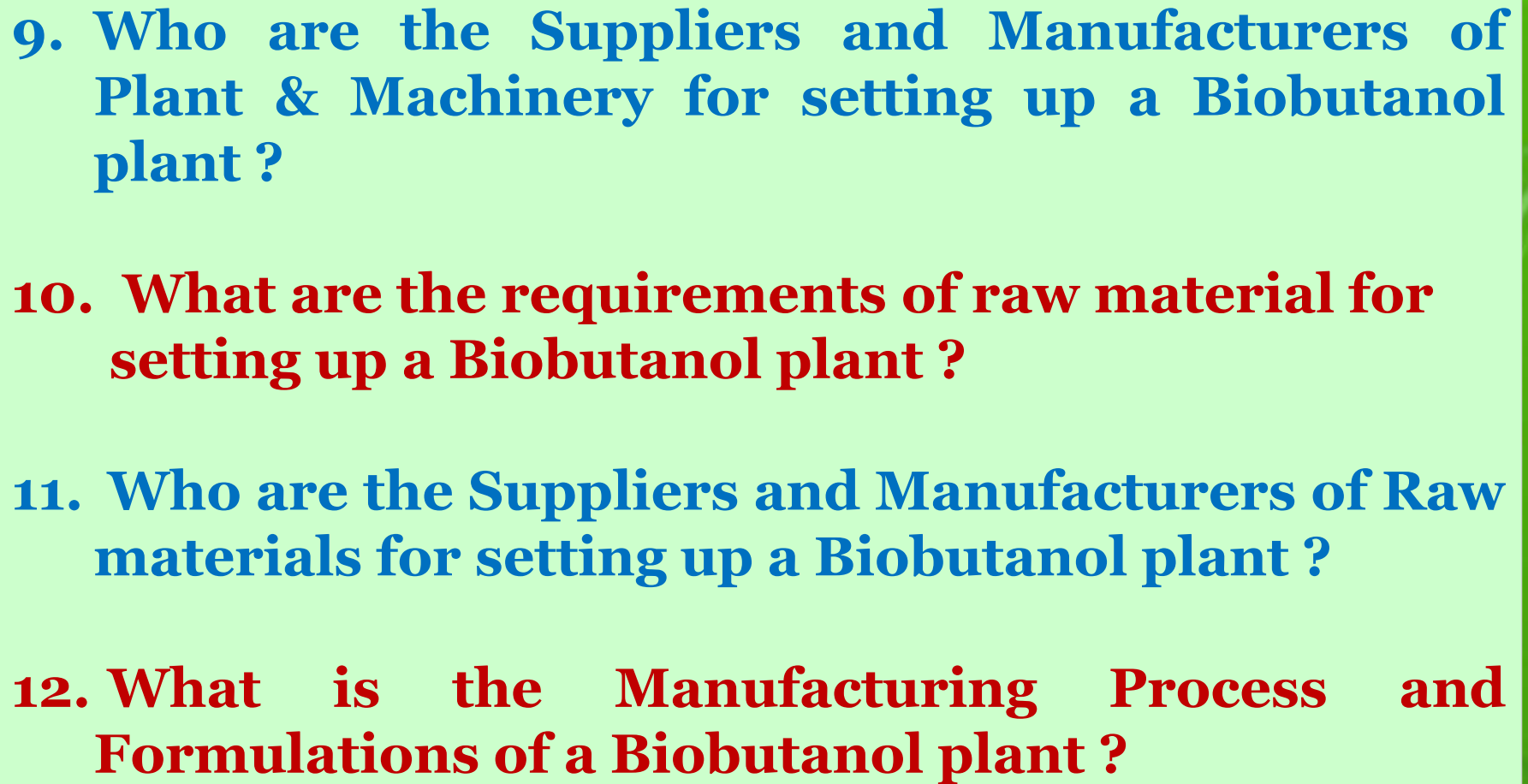
Bio-Butanol Market



Major Queries/Questions Answered in the Report?

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

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

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- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Biobutanol plant ?**
- 10. What are the requirements of raw material for setting up a Biobutanol plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Biobutanol plant ?**
- 12. What is the Manufacturing Process and Formulations of a Biobutanol plant ?**

13. What is the total size of land required for setting up a Biobutanol plant ?

14. What will be the income and expenditures for a Biobutanol plant ?

15. What are the Projected Balance Sheets of a Biobutanol plant ?

16. What are the requirement of utilities and overheads for setting up a Biobutanol plant?

17. What is the Built up Area Requirement and cost for setting up a Biobutanol Business?

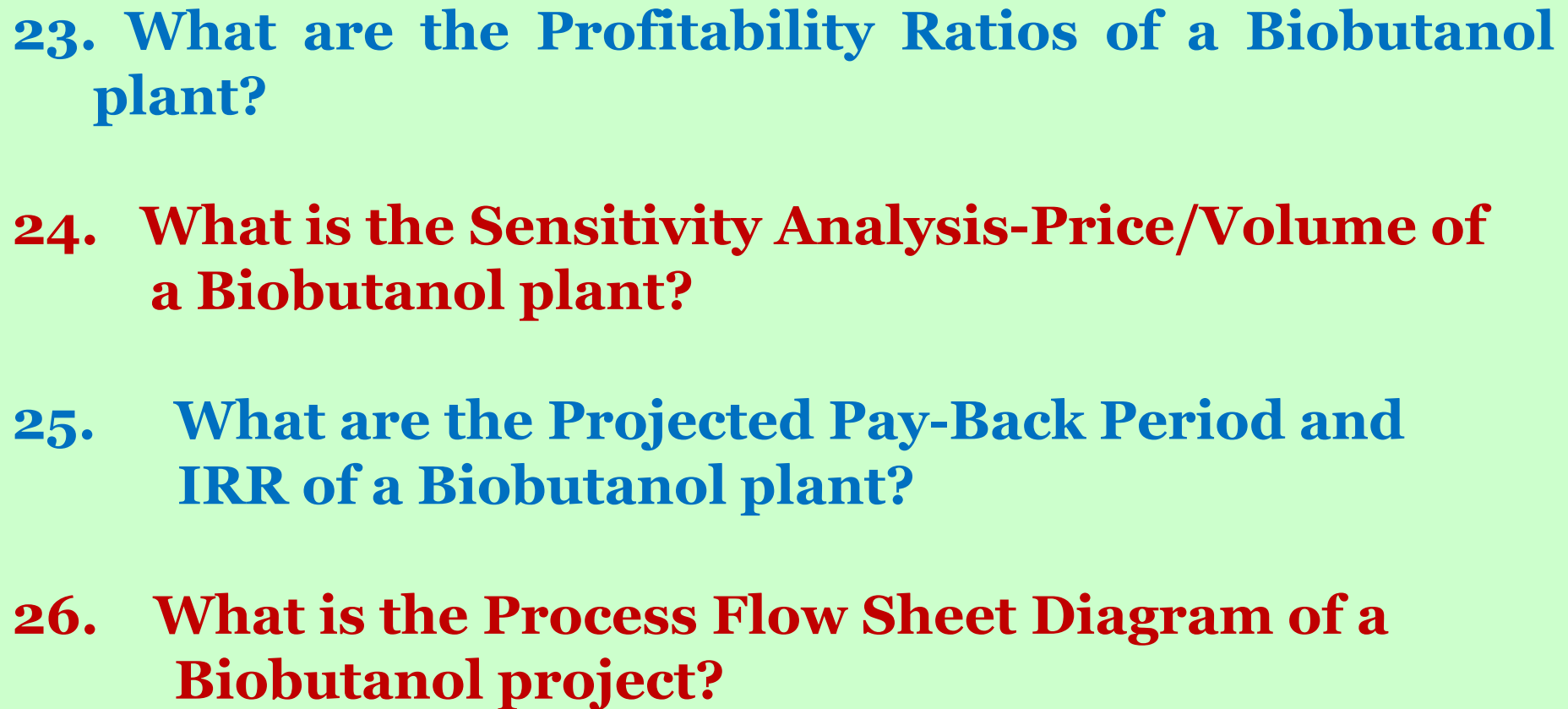
18. What are the Personnel (Manpower) Requirements for setting up a Biobutanol Business?

19. What are Statistics of Import & Export Biobutanol ?

20. What is the time required to break-even?

21. What is the Break-Even Analysis of a Biobutanol plant?

22. What are the Project financials of a Biobutanol plant?

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- 23. What are the Profitability Ratios of a Biobutanol plant?**
- 24. What is the Sensitivity Analysis-Price/Volume of a Biobutanol plant?**
- 25. What are the Projected Pay-Back Period and IRR of a Biobutanol plant?**
- 26. What is the Process Flow Sheet Diagram of a Biobutanol project?**

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- 27. What are the Market Opportunities for setting up a Biobutanol plant?**
- 28. What is the Market Study and Assessment for setting up a Biobutanol plant?**
- 29. What is the Plant Layout for setting up a Biobutanol Business?**

A green fuel nozzle and hose are shown against a white background. The nozzle is on the left, and the hose is coiled on the right. The text is overlaid on a light green rectangular background.

Table of Contents of the Project Report

Our Detailed Project Report contains

- Introduction
- Properties
- Uses & Applications
- List of Plant & Machineries
- Miscellaneous Items and Accessories
- Instruments, Laboratory Equipments and Accessories
- Electrification, Electric Load and Water
- Maintenance, Suppliers/Manufacturers of Plant and Machineries
- Process of Manufacture

- Flow Sheet Diagram
- List of Raw Materials
- Availability of Raw Materials
- Requirement of Staff & Labour
- Skilled & Unskilled Labour
- Requirement of Land Area
- Built up Area
- Plant Layout.

Along with financial details as under:

- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building
 - 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
 - Utilities & Overheads (Power, Water and Fuel Expenses etc.)
 - Royalty and Other Charges
 - Selling and Distribution Expenses
- Salary and Wages
- Turnover Per Annum
- Share Capital
 - Equity Capital
 - Preference Share Capital

- **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-Var./Semi-Fixed Exp.

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
- **Annexure 21** :: Employees Expenses
- **Annexure 22** :: Fuel Expenses
- **Annexure 23** :: Power / Electricity
Expenses
- **Annexure 24** :: Royalty & Other
Charges

- **Annexure 25** :: Repairs & Maintenance Exp.
- **Annexure 26** :: Other Mfg. Expenses
- **Annexure 27** :: Administration Expenses
- **Annexure 28** :: Selling Expenses
- **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**

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

Tags

Butanol Production, Biobutanol Production, Industrial Production of Butanol, Production Process of Biobutanol, Biobutanol Production Process, Commercial Biobutanol Production, Process for Production of Biobutanol, Biobutanol Manufacturing Plant, Production of Biobutanol, Butanol Manufacture, Manufacture of Biobutanol, Biofuels Business Plan, Business Plan for Biobutanol Manufacturing, Manufacturing Business Plan for Butanol, Small Production Business Ideas for Biobutanol, Process for Producing Biofuels, Process for Manufacture of Biobutanol, Biobutanol Production Plant, Method for Manufacturing of Butanol, Production Plant for Biobutanol, Small Scale Biobutanol Manufacturing Business Ideas & Opportunities, Butanol Manufacture Business Plan, Profitable Chemical Business Ideas, Startup Guide for Biobutanol Manufacturing Business, Small Scale Biobutanol Manufacturing Business Ideas, Project Report on Biobutanol Manufacturing, Preparation Method for Biobutanol, Butyl Alcohol Manufacturing Business, Biobutanol Processing Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Biobutanol Manufacturing Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Biobutanol Production Industry in India, Biobutanol Production Projects, New Project Profile on Biobutanol Processing Industries, Project Report on Biobutanol Manufacturing Industry,

Detailed Project Report on Biobutanol Production, Project Report on Biobutanol Production, Pre-Investment Feasibility Study on Biobutanol Production, Techno-Economic Feasibility Study on Biobutanol Production, Feasibility Report on Butyl Alcohol Manufacturing, Free Project Profile on Biobutanol Production, Project Profile on Biobutanol Production, Download Free Project Profile on Butyl Alcohol Manufacturing, Industrial Project Report, Project Consultant, Project Consultancy, NPCS, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project for Butanol, Production, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, Project Report for Bank Loan, Project Report for Bank Finance, Project Report Format for Bank Loan in Excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Detailed Project Plan Reports

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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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

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Contact us

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A green fuel nozzle and a green fuel canister are shown against a white background. The nozzle is on the left, and the canister is on the right. The text "Niir Project Consultancy Services" is overlaid on the nozzle.

Niir Project Consultancy Services

An ISO 9001:2008 Company




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

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 *Cont...*

- *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 & Hospitality 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*

Contact us

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