Bamboo Charcoal Manufacturing Business.
Production of Activated Charcoal from Bamboo

[NPCS/5106/23468]
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Bamboo charcoal powder consists of pieces of bamboo plants, which are harvested after a minimum of five years. It is manufactured using the pyrolysis or carbonization process, which usually consists of heat treatment at the temperature of 800°C to 1200°C. The process imparts high adsorption properties to the bamboo charcoal powder, thus making it useful for a wide range of applications. Bamboo charcoal powder can attract and hold a variety of materials, minerals, chemicals, humidity, radio waves, odors, and other substances.
Thus, it provides these materials with healing and detoxification characteristics. The use of bamboo charcoal powder is also popular because it is an environmentally-friendly product.

Bamboo charcoal can be used as household fuel for heating and cooking, as well as in a range of purification and absorption applications, such as purifying drinking water, in air filters, in mattresses and pillows as a deodorizer, and for certain industrial purification uses. Bamboo vinegar, a by-product of the manufacturing process, is also used as an ingredient in health products.
Bamboo is an excellent resource for charcoal because of its high surface area (up to 385 m²/g) and the ability to reach high temperatures (the surface temperature of bamboo charcoal can reach 700°C). Bamboo grows naturally because of the country’s largely undisturbed forests and the limited agriculture practiced in areas where bamboo proliferates. Four dzongkhags have a significant production of bamboos. These are Samtse, Samdrup Jongkhar, Tsirang and Zemgang.

_Bamboo charcoal can be used for a wide range of different purification and absorption application._

**Reduce Indoor Air Pollution** - Bamboo charcoal absorbs harmful chemicals in the air. It is especially useful for absorbing formaldehyde, ammonia, benzene from paints and strong adhesives, or when antifreeze is kept indoors. It also reduces smog as it absorbs carbonic oxide, ammonia, formaldehyde, benzopyrene, nicotine, and tar.
Purifying Drinking Water - As bamboo is naturally anti-bacterial and anti-fungal, bamboo charcoal also possesses similar properties. Bamboo charcoal also absorbs 2, 4-dichloro-hydroxybenzene, a major harmful pollutant in drinking water. Bamboo charcoal also eliminates harmful substances such as surplus chlorine, chloroform, and contains rich natural mineral, like, potassium, magnesium, sodium, calcium etc. Water quality is improved when bamboo charcoal is used in cooking and boiling.

Adjusting Humidity - Bamboo charcoal is both an effective natural humidifier and dehumidifier, a result of the pores present in its substructure which can trap and release moisture.
**Promote Metabolism and Blood Circulation** - As bamboo charcoal absorbs and emit far infrared rays, it promotes blood circulation. Bamboo charcoal in mattresses, cushions and comforters help to warm the body faster. Due to its absorbent properties, bamboo charcoal is often used in refrigerators, trash cans, shoe insoles, etc. to absorb odor. Bamboo charcoal products are not only functionally sound, but also good for protecting the environment.
Market Outlook

Based on the raw material required for manufacturing bamboo charcoal, bamboo charcoal market is categorized into raw bamboo charcoal and bamboo briquette charcoal. Raw bamboo charcoal and bamboo briquette charcoal are prepared from branches, roots, and culms of bamboo plants. Different manufacturing method for preparation of bamboo charcoal powder include the brick kiln process and mechanical process. The bamboo charcoal market is broadly categorized into three major segments based on the application type such as food industry, textile industry and cosmetics industry.
Cosmetics industry segment is growing rapidly in the bamboo charcoal market with substantial revenue generation in the last few years. Growing popularity of bamboo charcoal in cosmetics industry segment is attributed to the increasing product penetration in newer market and increasing use in household applications.

The global charcoal market is estimated to value $5,813.2 million in 2017 and is projected to grow at a CAGR of 2.0% during the forecast period. The growing demand for charcoal as a metallurgical fuel in the metal and mining industries is driving the growth of the market.
On the basis of type, the charcoal market is segmented into lump charcoal, charcoal briquettes, Japanese charcoal, sugar charcoal, and others. Others include various forms of activated charcoal. In terms of value, lump charcoal is estimated to contribute the largest share, of more than 67.0%, to the market in 2017. Lump charcoal burns quickly and produces a high amount of heat on burning. Owing to these properties, the demand for lump charcoal is growing for barbecue cooking purposes.
Global Charcoal Market, By Application, Kilotons (2013–2023)
Charcoal is increasingly being used in the production of steel, ferroalloys, aluminum, lead, cast iron, tin, copper, lanthanides, nickel, and some rare metals. It is also employed in the smelting of certain types of brass and bronze. The demand for charcoal is increasing due to technological developments and growing inclination toward the use of clean and renewable resources. Charcoal briquettes compressed from biomass materials produce less ash and reduce greenhouse gas emissions. They are therefore more preferred than traditional fuels. Such environmental sustainability benefits are fueling their demand among users, which, in turn, is driving the growth of the charcoal market.
Asia-Pacific region is estimated to hold a major share in the bamboo charcoal market with massive growth in forecast period. Countries such as India, China and Singapore are leading the Asia-Pacific market with strong economic growth, rapid industrialization, rising demand form end-use industries, and significant investment by leading industry players considering potential growth opportunities in the region.

Machinery Photographs

Rotary Kiln

Rotary Coolers
### Project at a Glance

#### COST OF PROJECT

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## Project at a Glance

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## Project at a Glance

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# Project at a Glance

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Major Queries/Questions Answered in the Report?

1. What is Bamboo Charcoal Manufacturing industry?

2. How has the Bamboo Charcoal Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Bamboo Charcoal Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Bamboo Charcoal Manufacturing plant?
5. What is the structure of the Bamboo Charcoal Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Bamboo Charcoal Manufacturing Business?

7. What are the operating costs for setting up Bamboo Charcoal Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Bamboo Charcoal Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bamboo Charcoal Manufacturing plant?

10. What are the requirements of raw material for setting up Bamboo Charcoal Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bamboo Charcoal Manufacturing Business?

12. What is the Manufacturing Process of Bamboo Charcoal?
13. What is the total size of land required for setting up Bamboo Charcoal Manufacturing plant?

14. What will be the income and expenditures for Bamboo Charcoal Manufacturing Business?

15. What are the Projected Balance Sheets of Bamboo Charcoal Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Bamboo Charcoal Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Bamboo Charcoal Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Bamboo Charcoal Manufacturing Business?

19. What are Statistics of Import & Export for Bamboo Charcoal?

20. What is the time required to break-even of Bamboo Charcoal Manufacturing Business?

21. What is the Break-Even Analysis of Bamboo Charcoal Manufacturing plant?

22. What are the Project financials of Bamboo Charcoal Manufacturing Business?
23. What are the Profitability Ratios of Bamboo Charcoal Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Bamboo Charcoal Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Bamboo Charcoal Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Bamboo Charcoal Manufacturing project?
27. What are the Market Opportunities for setting up Bamboo Charcoal Manufacturing plant?

28. What is the Market Study and Assessment for setting up Bamboo Charcoal Manufacturing Business?

29. What is the Plant Layout for setting up Bamboo Charcoal Manufacturing Business?
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   1.1.2. Demographics
   1.1.3. Geography
   1.1.4. Topography
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   1.1.7. Climate
   1.1.8. Administrative Setup
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   1.1.11. Transport

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4. USES AND APPLICATIONS
   4.1. USES OF ACTIVATED CHARCOAL
   4.2. APPLICATION OF ACTIVATED CHARCOAL

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   5.1. PHYSICAL PROPERTIES
   5.2. CHEMICAL PROPERTIES

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   6.1. GRANULAR ACTIVATED CHARCOAL (GAC)
6.2. POWDERED ACTIVATED CHARCOAL (PAC)
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8. B.I.S. SPECIFICATIONS
8.3. IS 8366 (1989): ACTIVATED CARBONS, POWDERED [CHD 1: INORGANIC CHEMICALS]

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10.1. EXPORT: ALL COUNTRIES
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11.2. PROFITS & APPROPRIATIONS
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11.4. TOTAL ASSETS
11.5. NET CASH FLOW FROM OPERATING ACTIVITIES
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11.6.2. Name of Director(S)
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11.6.4. Plant Capacity
11.6.5. Location of Plant
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11.7.7. Liabilities
11.7.8. Liquidity Ratios
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11.7.11. Return Ratios
11.7.12. Structure of Assets & Liabilities (%)
11.7.13. Working Capital & Turnover Ratios

12. COMPANY PROFILE OF MAJOR PLAYERS

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14. PRESENT MANUFACTURERS

15. USAGE OF ACTIVATED CHARCOAL
15.1. EDIBLE OIL INDUSTRY
15.2. PHARMACEUTICAL INDUSTRY
15.3. BEVERAGE INDUSTRY
15.4. OTHER INDUSTRIES

16. RAW MATERIAL REQUIREMENTS
16.1. CHEMICAL COMPOSITION OF BAMBOO
16.2. ENVIRONMENTAL ASPECTS

17. MANUFACTURING PROCESS
17.1. BASIC RAW MATERIAL REQUIRED
17.2. BASIC PLANT & MACHINERIES REQUIRED
17.3. PROCESS DETAILS

18. PROCESS FLOW DIAGRAM

19. EXPERIMENTAL TESTS AND ANALYSIS
19.1. PARAMETRIC CALCULATIONS
19.2. REMOVAL EFFICIENCY
19.3. EFFECTS OF PH
19.4. EFFECT OF CONTACT AND TIME
19.5. EFFECT OF AMOUNT OF ACTIVATED CHARCOAL
20. MAJOR CONSUMERS OF ACTIVATED CHARCOAL

21. BUYER’S LIST

21.1. CONTACT DETAILS OF BUYER’S
21.2. NAME OF DIRECTOR(S)
21.3. PLANT CAPACITY
21.4. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

22. SUPPLIERS OF RAW MATERIAL

23. SUPPLIERS OF PLANT & MACHINERY

24. PHOTOGRAPHS/IMAGES FOR REFERENCES

24.1. MACHINERY PHOTOGRAPHS
24.2. RAW MATERIAL PHOTOGRAPHS
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- Production Schedule
- Land & Building

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- 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
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  ▪ Gross Profit
  ▪ Financial Charges
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  - Debt Equity Ratio
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- Semi-Variable/Semi-Fixed Expenses
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- Fixed Expenses / Cost
- B.E.P
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- Resultant D.S.C.R
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- Resultant DER
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- Resultant BEP
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- Equity Capital
- Preference Share Capital

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- Determined Capacity P.A of Products/Services
- Achievable Efficiency/Yield % of Products/Services/Items
- Net Usable Load/Capacity of Products/Services/Items
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• 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
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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

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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 Activated Charcoal from Bamboo.” provides an insight into Bamboo Charcoal market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Bamboo Charcoal project. The report assesses the market sizing and growth of the Indian Bamboo Charcoal 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 Bamboo Charcoal sector in India along with its business prospects. Through this report we have identified Bamboo Charcoal project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Bamboo Charcoal Manufacturing Business. Production of Activated Charcoal from Bamboo

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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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- 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.
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- We have two decades long experience in project consultancy and market research field.
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- We help catalyze business growth by providing distinctive and profound market analysis.
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- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
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