Bamboo-Based Activated Carbon Manufacturing Business.

Production of Activated Carbon from Natural Sources







Introduction

Bamboo, (subfamily Bambusoideae), subfamily of tall treelike grasses of the family Poaceae, comprising more than 115 genera and 1,400 species. Bamboos are distributed in tropical and subtropical to mild temperate regions, with the heaviest concentration and largest number of species in East and Southeast Asia and on islands of the Indian and Pacific oceans.

Activated carbon was produced from bamboo residues using carbonisation and steam activation in a high temperature reactor.





Activate bamboo charcoal works great to regulate humidity, which is important for the health of hair and body. Bamboo charcoal can absorb the odors from all over the house, and can even prevent the growth of harmful bacteria.

The minerals in bamboo charcoal purify water by removing harmful substances and mineralizing the water with beneficial substances. The water particles become smaller, which improves the flavor of water.

Bamboo charcoal has been used for medicinal purposes for many centuries. Records indicate that charcoal was used in Hippocrates era for epilepsy, dizziness, and anemia. In Eastern medicine, it's quite common to use charcoal as an ingredient in natural medicines.





Uses and Application:

Activated carbon is used in wide range of applications in gas, vapor, and liquid treatment. The value chain of activated carbon includes raw material suppliers, production process, product supply channels, enduse industries and post sales service.

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.



Market Outlook

The major end users of activated carbon are the chemical, pharmaceutical and food industries. The demand for powdered activated carbon is closely related to the need for purification and dicolorization of several industrial products.

The global activated carbon market is projected to reach USD 8.12 billion by 2021 at a CAGR of 9.4% while in terms of volume the overall market is projected to grow at a CAGR of 8.4% and reach 3,857.9 KT by 2021 led by powdered activated carbon.



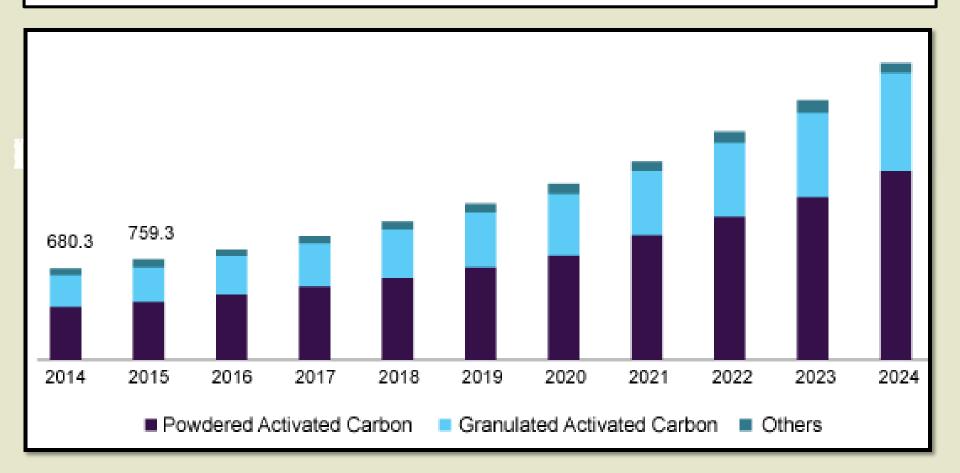


The growing use of activated carbon in industrial applications has led to an increase in its share in the gaseous phase applications, which is expected to drive the activated carbon market in the Asia-Pacific region. Moreover, the growing use of activated carbon for soil remediation applications, as well as in pharmaceutical applications have witnessed high growth during the last five years, and is further expected to boost the growth of the activated carbon market. However, the scarcity of raw material, especially in the Asia-Pacific region is a major factor restraining the growth of the activated carbon market globally.





U.S. Activated Carbon Market Size by Product, 2014-2024 (USD Million)





Activated carbon demand is strongly influenced by regulations and trends in manufacturing. In industrial air treatment, mercury removal standards at coal-fired power plants have been a major contributor to growth in demand for powdered activated carbon.





Global Activated Carbon Demand (Thousand Metric Tons)

WORLD ACTIVATED CARBON DEMAND (thousand metric tons)

				% Annual Growt	
Item	2010	2015	2020	2010- 2015	2015- 2020
Activated Carbon Demand	1080.0	1430.0	1910.0	5.8	6.0
North America	311.5	418.0	522.0	6.1	4.5
Western Europe	189.0	216.5	271.0	2.8	4.6
Asia/Pacific	353.8	504.0	738.0	7.3	7.9
Central & South America	87.8	101.5	127.0	2.9	4.6
Eastern Europe	77.1	105.0	138.0	6.4	5.6
Africa/Mideast	60.8	85.0	114.0	6.9	6.0



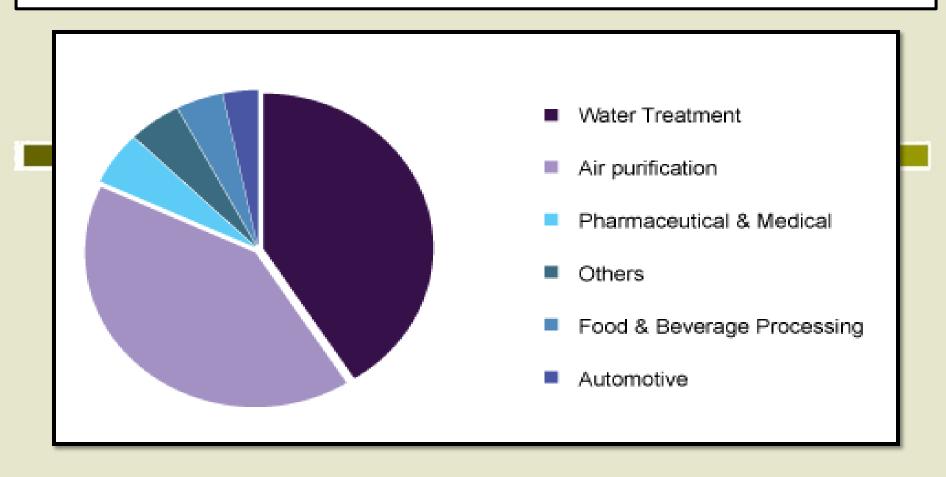
Activated carbon is highly used in water treatment processes. These carbons are said to reduce the specific volatile organic compounds as well as chlorine from drinking water. It also removes lead, dissolved radon, and other odor-causing compounds. Significant sources of these contaminants include pesticides, solvents, industrial wastes, or pollutants from leaking underground storage tanks.

The activated carbon filter is a widely used technology, in greenhouses, for reducing the odor and control emissions from greenhouses and other growing applications. After circulating through the filter, the ambient air is returned to the greenhouse or is discharged outside.





Global Activated Carbon Market Share by End-use, 2015 (%)





Machinery Photographs



Vertical Kiln



Bamboo Cutter





Bamboo Slicer



Boiler



Project at a Glance

			4				
PROJECT AT A GLANCE							(`in lacs)
COST O	F PROJE	CT		MEAN	NS OF FINA	ANCE	
Particulars	Existing	Proposed	Total	Particulars	Existing	Propose d	Total
Land & Site Development		_					
Exp.	0.00	60.00	60.00	Capital	0.00	95.00	95.00
Buildings	0.00	77.75	77.75	Share Premium	0.00	0.00	0.00
_				Other Type Share			,
Plant & Machineries	0.00	133.90	133.90	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	42.75	42.75	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00		Long/Medium Term Borrowings	0.00	284.99	284.99
Preliminary& Pre- operative Exp	0.00			Debentures / Bonds	0.00		0.00
Provision for				Unsecured	7		
Contingencies	0.00	11.50		Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	17.09	17.09				
TOTAL	0.00		379.99	TOTAL	0.00	379.99	379.99



Project at a Glance

Year	Ann	ualised	Book Value		Divide nd		ined ings	Payou t	Probab le Market Price		Yield Price/ Book Value
	EP				Per					No.of	
	S	CEPS	Per S	Share	Share	Per S	Share			Times	
	`	•	`	`	`	%	`	%	`		%
	5.2					100.0					
1-2	8	9.26	15.28	24.00	0.00	0	5.28	0.00	5.28	1.00	0.00
	8.3					100.0					
2-3	2	11.80	23.60	18.00	0.00	0	8.32	0.00	8.32	1.00	0.00
	11.					100.0					
3-4	28	14.33	34.88	12.00	0.00	0	11.28	0.00	11.28	1.00	0.00
	14.					100.0					
4-5	13	16.81	49.01	6.00	0.00	0	14.13	0.00	14.13	1.00	0.00
	16.					100.0					
5-6	85	19.22	65.86	0.00	0.00	0	16.85	0.00	16.85	1.00	0.00



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PIC	nject at a	a Giance
Yea	D. S. C. R.	Debt / Equity 7

Pro	oject at a	a Glance	
Yea	D. S. C. R.	Debt / Equity To	otal Retur

all

Debt

3.00

1.57

0.76

0.34

0.12

0.00

(Number of

times)

3.00

1.57

0.76

0.34

0.12

0.00

%

1.93

1.03

0.55

0.28

0.13

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Net

Wort

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%

GPM

%

23.43

%

26.94

%

29.30

%

30.88

31.90

%

PBT

%

18.10%

22.04%

24.82%

26.78%

12.48% 8.85%

Profitability Ratio

PAT

%

%

%

%

Asset Curre

Turno Ratio

nt

0.92

1.39

2.00

2.72

5.93

S

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Ratio

1.41

1.52

1.53

1.46

1.36

P/V

%

%

%

%

%

%

Net

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0

11.94 421.2 63.69

9

14.17 481.4 63.69

6

15.78 541.6 63.68

3

16.94 601.8 63.68

0

Contri Ratio

361.7 63.79

	oject at a	Gla	ince	
Yea	D. S. C. R.	Debt /	Equity	Total
r		-	as-	Net
		Depo	Equity	Wort
		sits		h

Individ Cumula Over

(Number of times)

1.35

1.50

1.67

1.85

2.05

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2.05

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Initi al

1-

1.35

2-3 1.67

3-4 2.06

2.51

3.05

2

4-5

5-6

Project at a Glance

R		
L	_	

BEP -	Maximum	Utilisation Year	

Cash BEP (% of Installed Capacity)

Total BEP (% of Installed Capacity)

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

Payback Period of the Project is (In Years) Fixed Assets Coverage Ratio (No. of times)







54.20%

57.93%

27.20%



Major Queries/Questions Answered in the Report?

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



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



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Activated Carbon Manufacturing plant?
- 10. What are the requirements of raw material for setting up Activated Carbon Manufacturing plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Activated Carbon Manufacturing Business?
- 12. What is the Manufacturing Process of Activated Carbon from Bamboo?



- 13. What is the total size of land required for setting up Activated Carbon Manufacturing plant?
- 14. What will be the income and expenditures for Activated Carbon Manufacturing Business?
- 15. What are the Projected Balance Sheets of Activated Carbon Manufacturing plant?
- 16. What are the requirement of utilities and overheads for setting up Activated Carbon Manufacturing plant?
- 17. What is the Built up Area Requirement and cost for setting up Activated Carbon Manufacturing Business?



- 18. What are the Personnel (Manpower) Requirements for setting up Activated Carbon Manufacturing Business?
- 19. What are Statistics of Import & Export for Activated Carbon?
- 20. What is the time required to break-even of Activated Carbon Manufacturing Business?
- 21. What is the Break-Even Analysis of Activated Carbon Manufacturing plant?
- 22. What are the Project financials of Activated Carbon Manufacturing Business?



- 23. What are the Profitability Ratios of Activated Carbon Manufacturing Project?
- 24. What is the Sensitivity Analysis-Price/Volume of Activated Carbon Manufacturing plant?
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- 26. What is the Process Flow Sheet Diagram of Activated Carbon Manufacturing project?



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



Tags

Production of Activated Carbon from Industrial Bamboo Wastes, Production of Activated Carbon from Bamboo, Preparation of Activated Carbon from Bamboo, Activated Bamboo, Activated Carbons Prepared from Bamboo, Preparation of Activated Carbon, Producing Activated Carbon from Bamboo, Activated Carbon and Its Application, Production of Activated Carbon Pdf, Activated Carbon Preparation and Characterization, Activated Carbon Production Process, Activated Carbon Production Plant, Preparation of Activated Carbon from Bamboo, Preparation of Bamboo-Based Activated Carbon, Project Report on Activated Carbon manufacturing Industry, Detailed Project Report on Activated Carbons Prepared from Bamboo, Project Report on Preparation of Bamboo-Based Activated Carbon, Pre-Investment Feasibility Study on Production of Activated Carbon from Bamboo, Techno-Economic feasibility study on Preparation of Bamboo-Based Activated Carbon,



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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:

- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- 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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- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)



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- 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



Contact us

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