



Bamboo Charcoal Manufacturing Business.

**Production of
Activated Charcoal
from Bamboo**

[NPCS/5106/23468]

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Introduction

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.

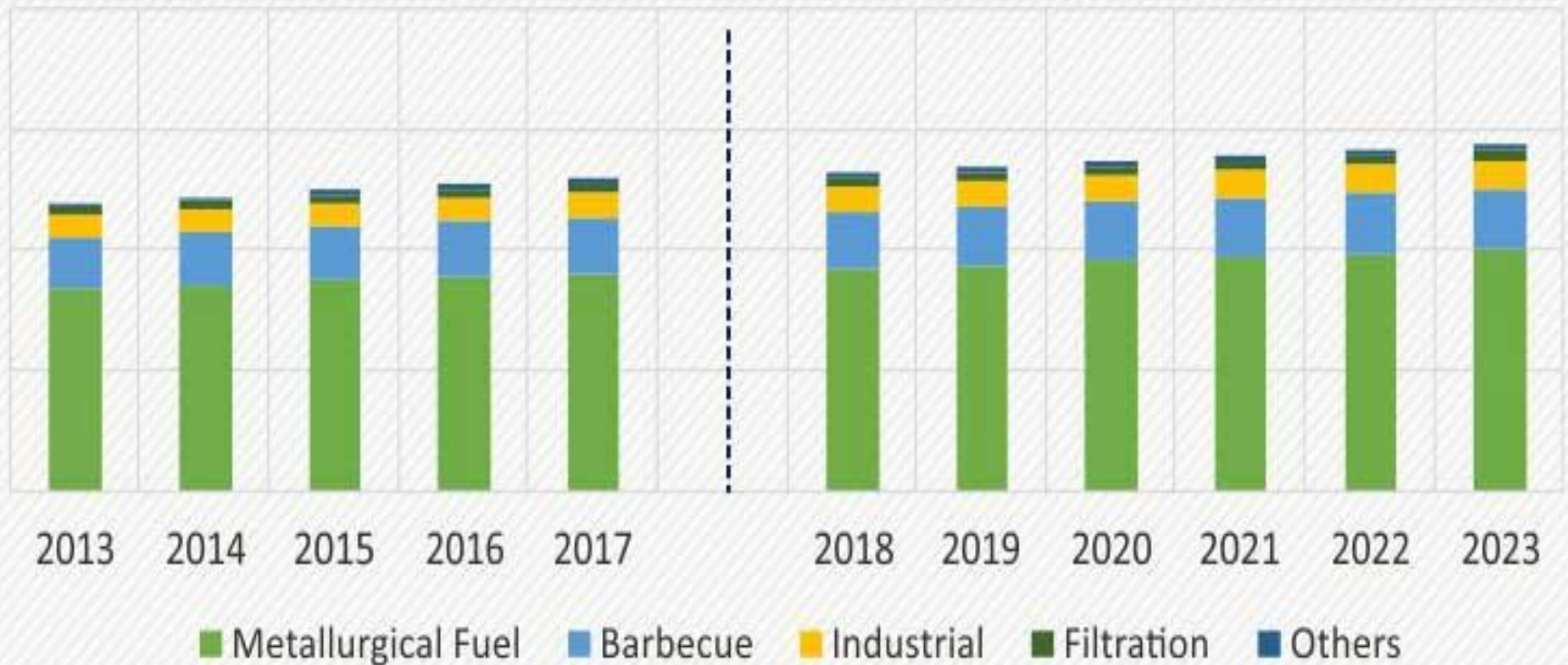
The global charcoal market is estimated to value \$5,813.2 million in 2017 and is projected to grow at a CAGR of 2.0% during the forecast period. The growing demand for charcoal as a metallurgical fuel in the metal and mining industries is driving the growth of the market.



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.



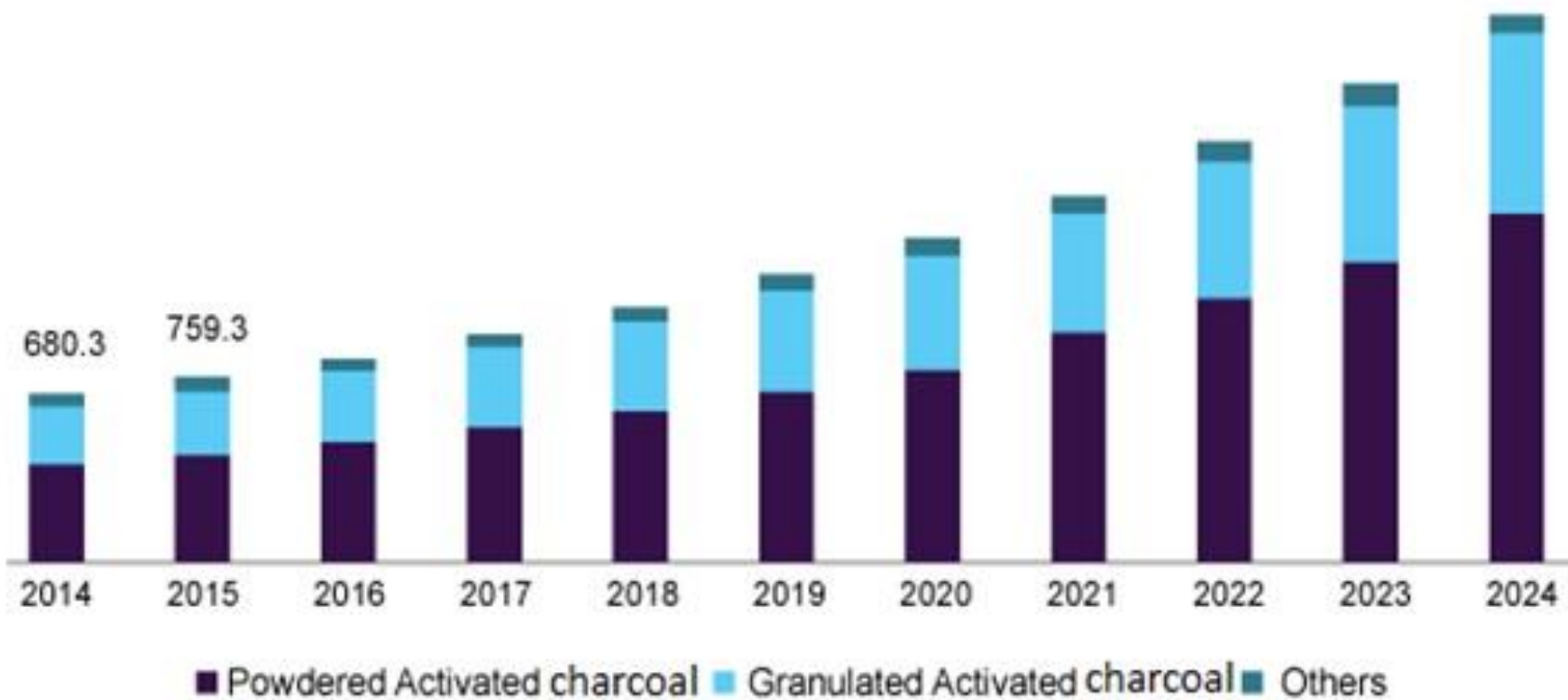
Global Charcoal Market, By Application, Kilotons (2013–2023)



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.



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



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 from end-use industries, and significant investment by leading industry players considering potential growth opportunities in the region.

The key players in the bamboo charcoal market are Hangzhou Fuyang Motor Carbon Ltd., Guilin Hsinchu Nature Biomaterials, Apex Biotechnology Corp., Jiangshan City Green, The Charcoal House, Japan Daisentakuzumi Corp., Quzhou Modern Carbon Industry, Shanghai Hainuo Carbon Industry, and the Suichang Bamboo Charcoal Factory.

Machinery Photographs



Rotary Kiln



Rotary Coolers



Hopper



Chimney

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propose d	Total
Land & Site							
Development Exp.	0.00	35.00	35.00	Capital	0.00	111.44	111.44
Buildings	0.00	122.75	122.75	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	186.10	186.10	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	41.75	41.75	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	20.00	20.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	334.31	334.31
Preliminary& Pre- operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	17.50	17.50	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	12.65	12.65				
TOTAL	0.00	445.75	445.75	TOTAL	0.00	445.75	445.75

Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS				Per Share	Per Share				
						%		%			%
1-2	5.48	9.98	15.48	24.00	0.00	100.00	5.48	0.00	5.48	1.00	0.00
2-3	8.36	12.27	23.84	18.00	0.00	100.00	8.36	0.00	8.36	1.00	0.00
3-4	11.18	14.60	35.02	12.00	0.00	100.00	11.18	0.00	11.18	1.00	0.00
4-5	13.94	16.93	48.96	6.00	0.00	100.00	13.94	0.00	13.94	1.00	0.00
5-6	16.59	19.22	65.55	0.00	0.00	100.00	16.59	0.00	16.59	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
Initial	(Number of times)			(Number of times)		%	%	%	%	%		%		
1-2	1.43	1.43		3.00	3.00			34.82%	19.64%	14.15%	361.89	83.77%	0.96	0.90
2-3	1.73	1.57		0.76	0.76	0.88		39.79%	27.81%	18.47%	421.97	83.72%	1.04	1.60
3-4	2.09	1.73	2.09	0.34	0.34	0.44		43.16%	33.55%	21.63%	482.25	83.72%	1.05	2.51
4-5	2.52	1.90		0.12	0.12	0.20		45.45%	37.65%	23.96%	542.52	83.72%	1.01	3.58
5-6	3.05	2.09		0.00	0.00	0.06		46.99%	40.59%	25.68%	602.80	83.72%	0.94	12.00



Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	46.65%
Total BEP (% of Installed Capacity)	51.51%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	28.17%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	2.972

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?**
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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 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.

Tags

#ABC_(Activated_Bamboo_Charcoal), #Bamboo_Charcoal, #Bamboo_Charcoal_and_Activated, Activated Charcoal, How to Make Activated Charcoal, How to Make Activated Bamboo Charcoal, #Production_of_Activated_Charcoal_from_Bamboo_Wastes, #Production_of_Activated_Charcoal, Production of Activated Charcoal, #Bamboo_Based_Activated_Charcoal_Manufacturing Business, Bamboo Charcoal, Bamboo Charcoal Making, #Bamboo_Charcoal_Production, Bamboo Charcoal Making Business, Bamboo Charcoal Production Process, How to Make Bamboo Charcoal, Bamboo Charcoal Uses, Bamboo Charcoal Making Unit, Bamboo Charcoal Production Business, Bamboo Charcoal Business, Charcoal Making Business, Charcoal Manufacturing Plant, 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 Production Process, Activated Carbon Production Plant, Bamboo Charcoal Powder, Preparation of Activated Carbon from Bamboo, Preparation of Bamboo-Based Activated Carbon, Charcoal Manufacturing Plant Business, #Project_Report_on_Charcoal_Manufacturing_Industry, Detailed Project Report on ABC (Activated Bamboo Charcoal) Manufacturing Business, Project Report on Charcoal Manufacturing Plant, #ABC_(Activated_Bamboo_Charcoal)_Production, Pre-Investment Feasibility Study on Bamboo-Based Activated Charcoal Manufacturing, #Techno_Economic_feasibility_study_on_Bamboo_Charcoal_Production, Feasibility report on Charcoal Manufacturing Plant, Free Project Profile on ABC (Activated Bamboo Charcoal) Production, Project profile on Bamboo Charcoal Production, Download free project profile on Bamboo Charcoal Production, Bamboo Charcoal Manufacture, Production of Activated Charcoal from Natural Sources

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**Production of Activated Charcoal
from Bamboo**

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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.



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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.

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](#)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

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

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**Thank
You**

For more information, visit us at:

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