





# Activated Carbon from Rice Husk, Saw Dust & Coconut Shell

Based Industry Business Plan

How to Make Activated Carbon from Rice Husk, Saw Dust & Coconut Shell

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#### Introduction

Charcoal in the form of activated carbon has undergone processing to make it porous. Coal or peat is combined with an acid and a base, such as limestone, to create activated carbon. The mixture is then heated in a retort, a type of oven where it can remain hot for up to 24 hours. This causes the material to develop pores. It can be applied to numerous industrial processes that call for filtration or purification, including water treatment facilities.

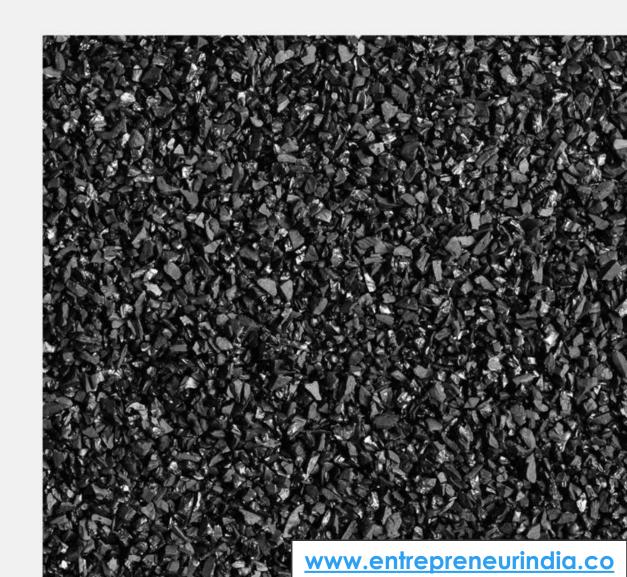
Visit this Page for More Information: Start a Business in Activated Carbon Industry



### **Uses and Applications**

The use of activated carbon in industrial and commercial settings has increased. The elimination of pollutants from wastewater and air is one such use. Activated carbon is used in the wastewater business to remove solvents, phenols, and hydrocarbons. It is used to absorb fine particulate particles in the air filtration sector so that it won't otherwise be released into the atmosphere and cause respiratory problems.

Related Business Plan: <u>Set Up Activated</u>
<u>Carbon From Rice Husk, Saw Dust & Coconut</u>
<u>Shell Manufacturing Business Plan</u>





A further application is in animal feed, where it can aid in digestion by eliminating contaminants and too much protein. When combined with manure, it can also be blended with other chemicals, such as lime, to help remove odours. However, because the two materials are so similar chemically, many individuals are substituting activated charcoal because of its high cost-effectiveness ratio.

Watch Video: <u>Activated Carbon | Activated Charcoal Powder |</u>
<u>Activated Coal Manufacturing Plant</u>



### **Manufacturing Process**

- 1) Compile all the production's raw materials.
- 2) Let rice husks soak in water for the entire night. The rice husks should be drained and laid out on a tarp. Give the rice husks enough time to dry up and disintegrate into tiny pieces on their own.





3) In a big container, mix sawdust and activated carbon powder (in a 1:5 ratio). Put the mixture in the oven and bake it until it reaches about 300 degrees. The carbon atoms are made to harden and become active by heat. After completing this stage, allow the mixture to cool before filtering it through a mesh screen or another sort of filter to get rid of any extraneous particles. Activated Carbon, or AC, is the final product.

Related Feasibility Study Reports: <u>Manufacturing</u>
<u>Business Plan for Activated Carbon from Rice Husk</u>,
<u>Saw Dust & Coconut Shell</u>



# Benefits of Starting Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Manufacturing Business

Creating a company to manufacture activated carbon can be lucrative. This is due to the fact that activated carbon is employed in numerous businesses and everyday items. There is a tonne of room for profit because of the rise in demand. Starting a company to manufacture activated carbon might be a terrific method to increase and stabilize your income. If you wish to establish your own business but lack the necessary funding, it can also be a fantastic option for you.





#### Market Size in India

The market prognosis in India is favorable for activated carbon made from rice husk, sawdust, and coconut shell. Coal-based facilities account for 48% of India's total consumption, with gasbased plants accounting for 33%. Has grown in popularity recently due to its capacity to filter out pollutants like mercury and arsenic that coal-based power plants emit into the environment. However, because it is expensive to buy.

Read Similar Articles: ACTIVATED CARBON





#### Global Market Outlook

Due to the growing demand for an environmentally acceptable replacement for plastics, the forecast for the global market for activated carbon made from rice husk, sawdust, and coconut shell is positive. Over the next five years, this \$14 billion business is expected to rise by 20%. At a CAGR of 5.6% over the forecast period, it is expected that the global market for activated carbon would increase from \$4.98 billion in 2022 to \$7.73 billion in 2030. Due to the significant demand for the product from numerous end-use industries, including water treatment and air & gas purification, activated carbon is the market category with the quickest growth.

Read our Books Here: <u>The Complete Book on Biomass Based</u> <u>Products (Biochemicals, Biofuels, Activated Carbon)</u>



### **Key Players**

- 1. CarbPure Technologies
- 2. Boyce Carbon
- 3. Cabot Corporation
- 4. Kuraray Co.
- CarboTech AC GmbH
- Donau Chemie AG
- 7. Haycarb (Pvt) Ltd.
- 8. Jacobi Carbons Group
- 9. Kureha Corporation
- 10. Osaka Gas Chemicals Co., Ltd.

- 11. Evoqua Water Technologies LLC
- 12. Oxbow Activated Carbon LLC
- 13. Carbon Activated Corporation
- 14. Hangzhou Nature Technology Co., Ltd.
- 15. Datong Coal Jinding Activated Carbon Co.
- 16. CarbUSA
- 17. Sorbent JSC
- 18. Henkel AG and Company KGaA
- 19. Avery Dennison Corporation



# PROJECT ATA GLANCE

COST OF PROJECT			MEANS OF FINANCE	MEANS OF FINANCE						
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total			
Land & Site Development Exp.	0.00	65.00	65.00	Capital	0.00	151.61	151.61			
Buildings	0.00	103.50	103.50	Share Premium	0.00	0.00	0.00			
Plant & Machineries	0.00	334.00	334.00	Other Type Share Capital	0.00	0.00	0.00			
Mater Vehicles	0.00	9.00	9.00	Dagoryag 9 Curplus	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	34.00	34.00	Cash Subsidy	0.00	0.00	0.00			
Cinco / totomanon Eqo.p.momo		000		- Jan Garage	0.00					
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00			
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	454.84	454.84			
Preliminary& Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00			
Provision for Contingencies	0.00	32.00	32.00	Unsecured Loans/Deposits	0.00	0.00	0.00			
Margin Money - Working Capital	0.00	11.96	11.96							
TOTAL	0.00	606.46	606.46	TOTAL	0.00	606.46	606.46			

Year	Annualised				valised Book Debt D		Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/ Book Value	
										No.of Times				
	EPS	CEPS	Per Share		Per Share	Per Share								
	•		`	`	`	%	`	%			%			
1-2	5.42	10.10	15.42	24.00	0.00	100.00	5.42	0.00	5.42	1.00	0.00			
2-3	7.75	11.78	23.17	18.00	0.00	100.00	7.75	0.00	7.75	1.00	0.00			
3-4	10.08	13.57	33.25	12.00	0.00	100.00	10.08	0.00	10.08	1.00	0.00			
4-5	12.39	15.41	45.64	6.00	0.00	100.00	12.39	0.00	12.39	1.00	0.00			
5-6	14.66	17.27	60.30	0.00	0.00	100.00	14.66	0.00	14.66	1.00	0.00			

Year	D. S. C. R.				Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio				Assets Turnover Ratio	Current Ratio	
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contributio n	P/V Ratio		
	(Number of t	imas)		(Number of	limas)	%	%	%	%	%		%		
	(Number of t	iiiles)		(Number of t	iiiies)	/•	/0	/6	/•	/0		/0		
Initial				3.00	3.00									
1-2	1.47	1.47		1.56	1.56	1.73		30.43%	20.15%	15.22%	356.99	66.11%	0.86	0.87
2-3	1.71	1.58		0.78	0.78	0.91		35.07%	27.46%	18.64%	415.54	65.96%	0.96	1.51
3-4	2.00	1.71	2.01	0.36	0.36	0.47		38.21%	32.62%	21.23%	474.88	65.96%	0.99	2.29
4-5	2.35	1.85		0.13	0.13	0.22		40.37%	36.33%	23.20%	534.22	65.95%	0.97	3.18
5-6	2.77	2.01		0.00	0.00	0.07		41.84%	39.03%	24.70%	593.56	65.95%	0.93	9.97

BEP	
VL:	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	34.12%
Total BEP (% of Installed Capacity)	40.79%
IRR, PAYBACK and FACR	
Internal Rate of Return ( In %age )	24.70%
Payback Period of the Project is (In Years)	2 Years 3 Months
rayback relied of the froject is ( in reals )	Z Tedis o Monins
Fixed Assets Coverage Ratio ( No. of times )	2.681



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#### 4.GRADES OF ACTIVATED CARBON

- 1.Grade I
- 2.Grade II
- 3.Grade III
- 4. Grade IV

#### 5.CLASSIFICATION OF ACTIVATED CARBON

- **6.TESTING**
- 7.FACTORS THAT EFFECT THE PERFORMANCE OF ACTIVATED CARBON





#### 8.MAJOR CONSUMERS OF ACTIVATED CARBON

- 1.Edible Oil Industry
  - 2.Pharmaceutical Industry
  - 3. Beverage Industry
  - 4.Other Industries

#### 9.B.I.S. SPECIFICATIONS

1.IS 877: 1989 (Reaffirmed Year: 2021) Methods of Sampling and Test for

**Activated Carbons, Powdered and Granular** 

1.IS 2752: 1995 (Reaffirmed Year: 2021) Activated Carbons, Granular

2.IS 8366: 1989 (Reaffirmed Year: 2021) Activated Carbons, Powdered

3.IS 13360: Part 8: Sec 4: 2018 Plastics — Methods of Testing Part 8

Permanece/Chemical Properties Section 4 Determination of Loss of

Plasticizers — Activated Carbon Method (First Revision)

#### **10.MARKET SURVEY**

- 1.Status of Industry in India
- 2.Future of Industry

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AN ISO 9001 : 2015 CERTIFIED COMPANY

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- 3. Total Liabilities
- 4.Total Assets
- **5.Net Cash Flow from Operating Activities**
- 6.Section I
  - 1.Name of Company with Contact Details
  - 2.Name of Director(S)



- • • 3.Credit Ratings
- 4.Plant Capacity
- • • 5.Location of Plant
  - 6.Name of Raw Material(S) Consumed With Quantity & Cost

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- 1.Assets
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- 3.Cost as %ge of Sales
- 4. Forex Transaction
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- 11.Profits
- 12.Return Ratios
- 13. Structure of Assets & Liabilities (%)
- 14. Working Capital & Turnover Ratios

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#### 15.EXPORT & IMPORT STATISTICS OF INDIA

- 1. Export Statistics of Activated Carbon
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#### 17.DIFFERENT PROCESS OF ACTIVATION

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- 3. Chemical Activation
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- 19.MANUFACTURING PROCESS
- 20.PROCESS FLOW DIAGRAM



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- 1. Contact Details of Buyer's
- 2.Name of Director(S)
- 3. Credit Ratings
- **4.Plant Capacity**
- 5.Location of Plant
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- 24.PHOTOGRAPH/IMAGES FOR REFERENCE
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  - 2. Machinery Photographs
  - 3. Product Photographs
- **25.PLANT LAYOUT**
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#### **TAGS**



#Activated, #Carbon, #ActivatedCarbon, #RiceHusk, #Rice, #Husk, #Saw, #SawDust, #Coconut, #Shell, #CoconutShell, #Dust, #Business, #BusinessOpportunity, #Manufacturingbusinessplan, #Mostprofitablebusiness, #Startup, #NPCS, #Entrepreneurindia, #Profitablebusiness, #StartyourownIndustry, #StartupBusinessIdeas,



## Major Queries/Questions Answered in Business Plan



- 1. How has the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business performed so far and how will it perform in the coming years?
- 2. What is the Business Feasibility Study of Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 3. What are the requirements of Working Capital for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business Plan?



- 4. What is the structure of Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business and who are the key/major players?
- 5. What is the total Startup cost for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 6. What are the operating costs for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 7. What are the machinery and equipment requirements for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?



- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 9. What are the requirements of raw material for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?



11. What is the Manufacturing Process of Activated Carbon from

Rice Husk, Saw Dust & Coconut Shell Business?

12. What is the total size of land required for setting up the

Activated Carbon from Rice Husk, Saw Dust & Coconut Shell

**Business?** 

13. What will be the income and expenditures for Activated Carbon

from Rice Husk, Saw Dust & Coconut Shell Business?





- 14. What are the Projected Balance Sheets of Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?

15. What are the requirement of utilities and overheads for setting up the

- 16. What is the Built up Area Requirement and cost for setting up the
  - **Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?**
- 17. What are the Personnel (Manpower) Requirements for setting up the
  - Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?



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- 20.What is the Break-Even Analysis of the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 21. What are the Project financials of the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?
- 22. What are the Profitability Ratios of Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?





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24. What are the Projected Pay-Back Period and IRR of Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?

25. What is the Process Flow Sheet Diagram of Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?





26. What are the Market Opportunities for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?

27. What is the Market Study and Assessment for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?

28. What is the Plant Layout for setting up the Activated Carbon from Rice Husk, Saw Dust & Coconut Shell Business?



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Project at a Glance

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Factory Land & Building
Site Development Expenses

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Land & Building.



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	Other Machineries (Miscellaneous, Laboratory etc.)
•	Other Fixed Assets

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• Turnover Per Annum ......10

• Share Capital......11

Equity Capital
Preference Share Capital





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- Annexure 2 :: Profitability and Net Cash Accruals
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- Expenses/Cost of Products/Services/Items
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- Financial Charges
- Total Cost of Sales
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- Net Cash Accruals





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**Net Working Capital** 

Working Note for Calculation of Work-in-process

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- ✓ This Business Plan provides vital information on the product like it's characteristics and segmentation
- ✓ This Business Plan helps you market and place the product correctly
  by identifying the target customer group of the product





- ✓ This Business Plan helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
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- ✓ The Business Plan provides forecasts of key parameters which
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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 Business Plan 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 help catalyze business growth by providing distinctive and profound market analysis
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- Corporates
- Government Undertakings
- Individual Entrepreneurs
- o NRI's
- Foreign Investors
- o Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations





### Our Approach



#### Requirement collection

Thorough analysis of the project

**Economic feasibility study of the Project** 

Market potential survey/research

**Report Compilation** 



#### **Sectors We Cover**





- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- o Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- o Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- o Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
- o Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- o 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





#### Sectors We Cover cont..



- Dairy/Milk Processing
- o Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- o Essential Oils, Oils & Fats And Allied
- o 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
- o 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
- o Organic Farming, Neem Products Etc.
- o Paints, Pigments, Varnish & Lacquer
- o Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- o Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- o Plastic Film, Plastic Waste And Plastic Compounds
- o Plastic, PVC, PET, HDPE, LDPE Etc.





#### Sectors We Cover cont...



- Potato And Potato Based Projects
- Printing And Packaging
- o 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

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- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

Click here for list





## Scope & Coverage AN ISO SOOT : 2015 CERTIFIED COMPANY



Primary Online Research Research **Industry Journals** Surveys Secondary One-on-one Research Interactions **Databases Industry Experts** Industry Industry Associations Sources Companies











©Our research team comprises of experts from various financial fields:

∞MBA's

**∞**Industry Researchers

research veterans with decades of experience



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