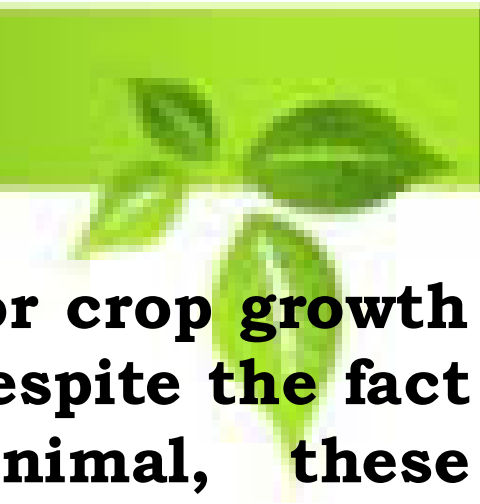


Investment and Business Plan for Manufacturing of

Micronutrients Fertilizer

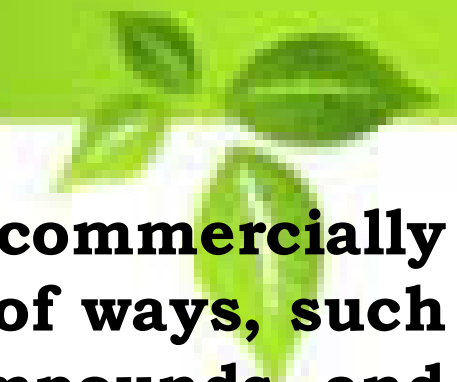
Business Opportunities in Fertilizer Sector





Micronutrients are important nutrients for crop growth that are only needed in trace amounts. Despite the fact that micronutrient demands are minimal, these nutrients have a direct impact on crop growth and development. Other requirements for plant growth and soil health are secondary nutrients (S, Ca, and Mg) and micronutrients, which include iron, manganese, zinc, boron, molybdenum, and copper, in addition to the basic three essential nutrients of nitrogen, phosphorus, and potassium.





These secondary micronutrients are commercially available for agricultural use in a number of ways, such as additives to granular micronutrient compounds, and are used either directly or as minor components of bulk NPK blends. Sulfur and other secondary nutrients are often supplied in prilled or pastillated form. Granular high magnesium and calcium analysis products are also available on the market. Micronutrient fertilizers, like any other particulate fertilizer content, can break down and produce dust as they age and go through multiple handling steps during processing, storage, transportation, and application.



Dust production and product degradation can be minimized with the use of a properly engineered dust control coating and application system. Micronutrient deficiency has emerged as one of the main constraints to crop productivity in Indian soils. Though there are large areas of the country that are deficient in zinc, iron, boron, and manganese, copper and molybdenum deficiency has also been observed in several districts. Soil acidity, which affects a wide area in eastern and southern states, and soil alkalinity, which is widespread in northern states, have exacerbated the problem, as crops grown on such soils suffer from nutritional problems and toxicities.

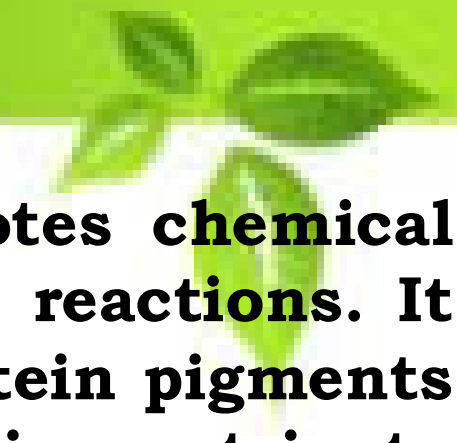
Uses and Types of Micronutrients

The following are some examples of how each micronutrient is used:

Boron: is an essential nutrient that promotes healthy cell growth and aids pollen formation. Boron deficiency can also stifle plant growth.

Chlorine: which is found mainly in small grains such as wheat, aids plants in managing water stress and resisting fungal diseases.





Copper: Copper is a catalyst that promotes chemical reactions while not being a part of those reactions. It also helps animals and humans shape protein pigments in red blood cells, making it an effective micronutrient.

Iron: This nutrient promotes root role in legumes like peanuts and beans by serving as a catalyst in the formation of chlorophyll.

Manganese: is a chlorophyll catalyst that also aids in the regulation of many plant enzymes. Providing enough manganese to plants results in manganese-rich food for humans.



Molybdenum: This nutrient aids in the productive use of nitrogen and phosphorus (two of the "Big 3") by plants, resulting in higher yields and a higher return on fertilizer investment for farmers.

Zinc: is an essential nutrient that is important for both human and plant health. It aids in the formation of proteins, starches, and growth hormones in plants, which aids in the development of healthy skin and bones in humans. Each of these micronutrients plays an important role in the diet of plants, livestock, and humans. Fertility of the soil and therefore fertilizer are critical components in feeding the world's population. The fertilizer industry and farmers who responsibly and sustainably use available nutrient resources have allowed us to have plentiful, high-quality, and affordable food.

Process of Production

The fertilizer found inside is micronutrient fertilizer trace elements in various amounts. Chelated trace elements in fertilizer may be present or absent. Micronutrient fertilizers are available in liquid or powder form. These fertilizers can be applied to leaves and drippings. Micronutrients support and complement the solid growth and structure that main and secondary nutrients provide. The majority of micronutrients have an impact on development.





Manganese (MN), iron (Fe), and copper (Cu), for example, all have an effect on photosynthesis, the mechanism by which plants use sunlight to develop. Iron deficiency is common – for example, in seed fruits – and has the effect of reducing chlorophyll production. Crops suffer as a result, and younger leaves suffer from excessive yellowing or chlorosis.

Boron (B) is needed for the growth of shoots and roots, as well as during the flowering and fruiting stages of plants.





Zinc (Zn) is needed for the development of key plant hormones such as auxin. Zinc deficiency causes structural defects in plants' leaves and other organs.

Molybdenum (Mo) Plant enzyme systems that regulate nitrogen metabolism include molybdenum (Mo).



Market Outlook

The Global Micronutrient Fertilizers Market is expected to expand at a rate of 10.2% over the next five years. However, the prevalence of micronutrients in soil is now decreasing at a faster rate, allowing for their artificial addition. This is where the micronutrient fertilizer industry has a lot of room to expand.





Based on form, the global Micronutrients Fertilizers market is segmented into the following categories: Boron, Copper, Iron, Manganese, Molybdenum, Zinc, and Others. The demand for micronutrient fertilizers would be driven by a rise in soil depletion due to intensive agriculture and shrinking farmland. Furthermore, rising demand for high-value crops such as fruits and vegetables would push up demand for micronutrient fertilizers. The micronutrient fertilizers market is likely to be hindered by limited product availability.





Increased agricultural investment in developed countries, on the other hand, would open up opportunities for the micronutrient fertilizer industry. Based on feature, the global market for micronutrient fertilizers is divided into the following segments: soil, foliar, fertigation, and others. The agricultural micronutrients market is expected to expand due to factors such as rising soil micronutrient deficiencies and rising knowledge about food security.





In terms of both value and volume, Asia-Pacific was the largest market for crop micronutrients. The growing demand for high-quality food, as well as farmers' increased awareness and acceptance of micronutrients, are some of the major factors driving the crop micronutrients market in Asia Pacific. Furthermore, the crop micronutrients market in this area is expected to be driven by an increase in agricultural practices and the demand for high-quality agricultural produce.



Government Policy on Micronutrients Fertilizers

India is a zinc-deficient country, according to an ICAR report under the Ministry of Agriculture and Farmers Welfare, with about 37% of soil samples analyzed for accessible zinc being found deficient. Owing to zinc deficiency, the World Health Organization (WHO) estimates that about 800,000 people die each year as a result of zinc deficiency, with 450,000 of them being children under the age of five. Low zinc intake could affect 60-70 percent of the population in Asia and Sub-Saharan Africa, according to estimates.



This amounts to about 2 billion people in Asia and 400 million people in Sub-Saharan Africa in absolute terms. Zinc malnutrition has resulted from widespread zinc deficiency in humans, especially in developing countries like India. This has drew the attention of India's government and politicians, raising consciousness about the value of zinc in human health. In terms of fertilizer policy, the position of zinc was targeted through an Rs 500 per tonne additional subsidy under the Nutrient Based Subsidy (NBS) Scheme, which was launched in 2010.



Under the National Food Security Mission (NFSM), the government is actively promoting the use of zinc by providing farmers with an additional subsidy of Rs 500 per hectare for using micronutrients, including zinc fertilizers. Big fertilizer companies are also making forays into the zinc fertilizer market in India.





- 1. Abellon Agrisciences Ltd.**
- 2. Agro Extracts Ltd.**
- 3. Aries Agro Ltd**
- 4. Bayer Cropscience Ltd.**
- 5. Champion Agro Ltd.**
- 6. Coromandel Agro Products & Oils Ltd.**
- 7. Good Value Mktg. Co. Ltd.**

Machinery Photographs

MIXER



GRINDER



PULVERIZER



REACTION VESSEL





FILTER BAGS WITH DUST COLLECTOR



SCREW FEEDER



ELECTRIC CONTROLLING SYSTEM

WEIGHING SCALE





STORAGE BIN



AUTOMATIC PACKAGING MACHINES

CENTRIFUGE



DISTILLATION UNIT





DRYER



EQUIPMENTS IN LAB



Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	100.85	100.85	Capital	0.00	86.34	86.34
Buildings	0.00	89.75	89.75	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	58.29	58.29	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	12.00	12.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	31.20	31.20	Cash Subsidy	0.00	0.00	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	259.03	259.03
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Debentures/ Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	5.33	5.33	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	27.95	27.95				
TOTAL	0.00	345.37	345.37	TOTAL	0.00	345.37	345.37

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				
						%		%		No.of Times	%
1-2	6.50	9.40	16.50	24.00	0.00	100.00	6.50	0.00	6.50	1.00	0.00
2-3	9.49	12.05	25.98	18.00	0.00	100.00	9.49	0.00	9.49	1.00	0.00
3-4	12.38	14.65	38.37	12.00	0.00	100.00	12.38	0.00	12.38	1.00	0.00
4-5	15.15	17.16	53.52	6.00	0.00	100.00	15.15	0.00	15.15	1.00	0.00
5-6	17.78	19.56	71.30	0.00	0.00	100.00	17.78	0.00	17.78	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		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.39	1.39		1.45	1.45	1.95		29.64%	16.35%	10.84%	368.46	71.20%	1.27	1.05
2-3	1.74	1.56		0.69	0.69	1.05		32.40%	21.04%	13.57%	391.75	64.89%	1.35	1.44
3-4	2.14	1.74	2.13	0.31	0.31	0.59		34.23%	24.30%	15.49%	446.81	64.75%	1.34	1.92
4-5	2.60	1.93		0.11	0.11	0.33		35.44%	26.57%	16.85%	501.86	64.65%	1.28	2.48
5-6	3.13	2.13		0.00	0.00	0.18		36.20%	28.13%	17.80%	556.92	64.57%	1.19	4.50

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	52.53%
Total BEP (% of Installed Capacity)	55.29%

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)	27.35%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	3.967

Major Queries/Questions Answered in the Report?



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



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



- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Micronutrients Fertilizer Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Micronutrients Fertilizer Manufacturing plant ?**
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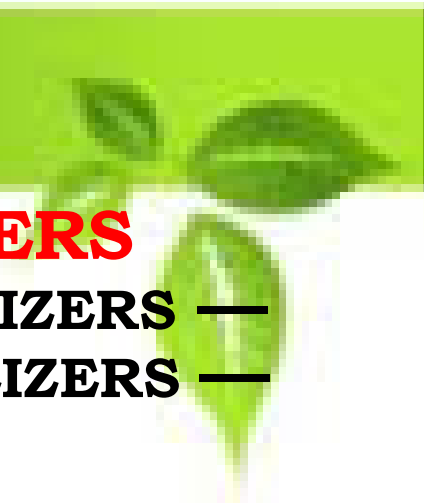
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Reasons for Buying our Report:

- **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**

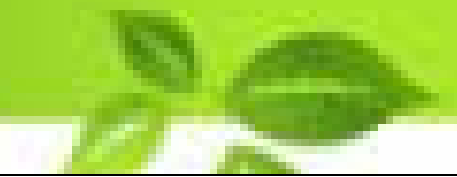
Our Approach:



- 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 Micronutrients Fertilizer.” provides an insight into Micronutrients Fertilizer market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Micronutrients Fertilizer project. The report assesses the market sizing and growth of the Indian Micronutrients Fertilizer 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



- **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 Micronutrients Fertilizer sector in India along with its business prospects. Through this report we have identified Micronutrients Fertilizer project as a lucrative investment avenue.



- #DetailedProjectReport**
- #BusinessPlan**
- #entrepreneurindia**
- #ProjectReport**
- #businessopportunity**
- #MicronutrientsFertilizerMarket**
- #FertilizerMarket**
- #MicronutrientFertilizersManufacturing**
- #MicronutrientFertilizersProduction**
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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

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](#)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

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<https://goo.gl/VstWkd>



NIIR PROJECT CONSULTANCY SERVICES

**AN ISO 9001: 2015
CERTIFIED 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



MARKET RESEARCH REPORTS



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



Objective

- ∞ 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



Clientele

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

[Click here for list](#)



Data Sources



Scope & Coverage





Our Team

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

∞ MBA's

∞ Industry Researchers

∞ Financial Planners

∞ Research veterans with decades of experience



Structure of the Report

- 1. Overview
- 2. Market Analysis
 - 2.1 Growth Drivers
 - 2.2 Emerging Trends in the Industry
 - 2.3 Regulatory Framework
 - 2.4 SWOT Analysis
 - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players



Structure of the Report

Cont

- ⌘5. Key Financials and Analysis
 - ⌘5.1 Contact Information
 - ⌘5.2 Key Financials
 - ⌘5.3 Financial comparison
- ⌘6. Industry Size & Outlook



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Thank You

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