

Opportunities in
Mining of Mineral Ore with
Processing and Beneficiation
for Manufacturing of
Red Iron Oxide



Introduction



Iron ore is a very important industrial source, is an iron oxide ore, a [mineral](#) aggregate containing iron elements or iron compounds which will be economically utilized, and there are many varieties of ore. Among them, the iron smelting products mainly include Magnetite, siderite, and hematite then on. Iron exists in nature as a compound, and iron ore are often gradually selected after natural iron ore is crushed, milled, magnetically selected, flotation, and reselected. Therefore, iron ore is a very important raw material within the field of steel production; generally iron ore grade but 50% must undergo the dressing before smelting and utilization.

Related projects:- [Mining, Quarrying, Mineral and Ore Processing, Coal, Iron Ore, Limestone, Chromite and Granite Mining Projects](#)

At present, the present status of the integrated industry and therefore the resource characteristics of China's iron ore resources must be continuously improved in China's metallurgical ore beneficiation process so as to market the rapid development of the industry, equipment investment in crushing and grinding operations, production costs, electricity consumption and steel consumption and other factors will largely determine the event of the industry and market efficiency. Ores containing very high quantities of hematite or magnetite (greater than about 60% iron) are referred to as "natural ore" or "direct shipping ore", meaning they will be fed directly into iron-making blast furnaces. ore is that the staple wont to make pig iron, which is one in every of the most raw materials to form steel—98% of the mined iron ore is used to form steel.

Books:- [BOOKS & DATABASES](#)

Usage of Iron Ore

Main application areas of iron ore is that the steel industry. In nowadays, steel products are widely utilized in the financial set-up and people's daily lives, is that the basic material necessary for social production and life, steel together of the most important structural materials within the economy, occupies a particularly important position and has become a very important pillar for social development. Steel, steel production, variety, quality has always been a measure of a country's industrial, agricultural, national defense and science and technology a very important symbol of the extent of development, of which iron because the basic raw material for the steel industry, is a very important staple supporting the whole steel industry, ore plays a huge role in steel industry, are often smelted into pig iron, iron , ferroalloy, carbon steel, alloy steel, special steel, pure magnetite also can be used as a catalyst for ammonia.

Related Project: - [Mining Of Mineral Ore With Processing And Beneficiation For Production Of Red Iron Oxide](#)

Processing of Iron Ore

The processing of ore involves crushing, screening, washing and in some cases beneficiation and agglomeration. Crushing and screening are adopted mainly for sizing the ore and also for removing the adherent gangue minerals. Dry and wet grinding is additionally resorted to in some cases. The lumps and fines of iron ore are marketed after washing, screening and beneficiation. Fines are converted into sinters to be used in steel plants while pellets made up of concentrates/fines are predominantly exported and are also utilized for internal consumption in sponge iron units.

Market Research:- Market Research Report

Mining operations are essentially administered by open cast method. Iron ore mining is fully mechanized, comprising of sort of heavy earth moving equipment. Most of the large mines even have mineral beneficiation plants comprising crushers, classifiers, hydrocyclones, log washers and magnetic separators.



Mining operations are being administered by conventional open cast mining method forming systematic benches using shovel - dumper combination and therefore the pits are laterally extended piecemeal altogether directions with increasing depths. Generally, bench height and width are maintained at 7m and 15m respectively. The pit configurations are planned in such how that the general pit slopes remains at 30o or less with the horizontal. Sequence of mining operations involves systematic removal of laterite over burden and mining lumpy ore zone followed by powdery ore zone. Soft laterite is removed by ripping and dozing. Drilling and blasting is practiced in hard laterite and lumpy ore zone where ever necessary. To extract a tonne of iron ore, a mean of 2.5–3 tonnes of O.B material is required to be removed. This O.B material, which consists of laterite, laterite clay, manganiferous clay and phyllites, is dumped generally within the leasehold along Capitol Hill slopes, road sides and valleys. In some cases, O.B. material is being transported to dumping sites acquired outside the leasehold area. **Feasibility Reports:- [Feasibility Reports List](#)**

Market Outlook

Demand for iron is increasing at a high pace across the world. The quantity of extraction and usage are often directly correlated with any country. Iron is widely utilized in structural engineering application, maritime purpose, automobiles and general industrial application. Hence, the demand for iron ore is expected to grow driving the worldwide mining industry. Ore mining business is tremendously capital intensive as ample amount of capital is invested in heavy equipment and machinery necessary for mining activities. Various governments are introducing new policies and perks to draw in private investors within the mining business. Elevated mineral prices, liberalization in mining policies and advancement in technology provide opportunities to the mining sector.

Related Project: - [Mining Of Mineral Ore With Processing And Beneficiation For Production Of Red Iron Oxide](#)

Global "Iron Ore Market" is expected to grow at a CAGR of roughly 8.8% over the next five years, will reach 252200 million USD in 2024, from 152400 million USD in 2020.

India is the third largest producer of coal. Coal production in the country stood at 729.10 million tonnes (MT) in FY20 and reached 55.42 MT in FY21 (till April 2020). India ranks fourth in terms of iron ore production globally. Production of iron ore in FY20 stood at 205.70 MT. [India](#) has around eight per cent of the world's iron ore deposits. India became the world's second largest crude steel producer in 2019 with production at 111.2 MT. Production of aluminium stood at 3.65 MT in FY20. Aluminium export from the country reached US\$ 18.24 million in FY20 (till January 2020).

Projects:- [Project Reports & Profiles](#)

Market Dynamics

Thus, the rise in worldwide demand for iron ore production is that the primary driver for the market. In terms of production, Australia and Brazil are the highest exporters of iron ore. China is that the largest importer of iron ore. Thus Chinese demand dictates the ore market. The most important restraint for iron ore Market is that the environmental pollution and its impact on human health associated with the mining, beneficiation, and transportation of iron ore.

Related Videos: - Mineral and Ore Processing

The adverse effects such pollution has on the standard of air, water and species of the surrounding area have left many to question the process of iron ore excavation.

Recent government-initiated crackdown on pollution and outdated machinery by the Chinese authorities has resulted in losses incurred by the businesses. Since Chinese demand controls the market, the regulations have impacted the growth rate of the worldwide market.

Owing to the strong demand from China, iron ore export from India touched an eight-year high within the first half of 2020 and therefore the prices reached a new high. However, the beneficiaries were miners within the eastern states as restrictions on the export from [Karnataka](#) and therefore the ban on Goa mining continues. The iron pellet demand within the first half of 2020. The worldwide economy is likely to witness a big rebound from 2021, which is probably going to spur the iron ore pellets industry growth within the near future.

Related Project: - [Mining Of Mineral Ore With Processing And Beneficiation For Production Of Red Iron Oxide](#)

Key Players:-

- A Narrain Mines Ltd.
- Arya Iron & Steel Co. Pvt. Ltd.
- Bonai Industrial Co. Ltd.
- Brahmani River Pellet Ltd.
- Essel Mining & Inds. Ltd.
- Idcol Kalinga Iron Works Ltd.
- Mandovi Pellets Ltd.
- Mineral Enterprises Ltd.
- Obulapuram Mining Co. Pvt. Ltd.

- Odisha Mining Corpn. Ltd.
- Manganese & Minerals Ltd.
- Rajaram Bandekar (Sirigao) Mines Pvt. Ltd.
- Rameshwara Jute Mills Ltd.
- Rashi Steel & Power Ltd.
- Samruddha Resources Ltd.
- Sri Santhipriya Minerals Pvt. Ltd.
- Vikas Metaliks & Energy Ltd.
- Xindia Steels Ltd.

Machinery Photographs



Storage Hopper



Bagging Machine



Fuel Storage Tank



Pipeline & Pumps

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	180.00	180.00	Capital	0.00	449.64	449.64
Buildings	0.00	802.00	802.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	527.10	527.10	Other Type Share 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	102.00	102.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	40.00	40.00	Internal Cash			
Franchise & Other Deposits	0.00	0.00	0.00	Accruals	0.00	0.00	0.00
Preliminary & Pre-operative Exp	0.00	5.00	5.00	Long/Medium Term Borrowings	0.00	1348.91	1348.91
Provision for Contingencies	0.00	50.00	50.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Margin Money - Working Capital	0.00	82.44	82.44	Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	1798.54	1798.54	TOTAL	0.00	1798.54	1798.54

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	Per Share				No. of Times	
						%		%			%
1-2	5.53	9.57	15.53	24.00	0.00	100.00	5.53	0.00	5.53	1.00	0.00
2-3	8.93	12.48	24.46	18.00	0.00	100.00	8.93	0.00	8.93	1.00	0.00
3-4	12.20	15.32	36.66	12.00	0.00	100.00	12.20	0.00	12.20	1.00	0.00
4-5	15.30	18.04	51.96	6.00	0.00	100.00	15.30	0.00	15.30	1.00	0.00
5-6	18.20	20.62	70.16	0.00	0.00	100.00	18.20	0.00	18.20	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Retur n on Net Wort h	Profitability Ratio					Assets Turno ver Ratio	Curre nt Ratio
								GPM	PBT	PAT	Net Contr ibutio n	P/V Ratio		
	Indivi dual	Cumul ative	Over all											
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.38	1.38		1.55	1.55	1.75		29.90 %	17.42 %	11.99 %	1989. 37	95.9 4%	1.10	0.93
2-3	1.75	1.56		0.74	0.74	0.88		35.30 %	25.46 %	16.60 %	2318. 04	95.8 2%	1.19	1.61
3-4	2.18	1.75	2.17	0.33	0.33	0.44		38.87 %	31.00 %	19.84 %	2649. 12	95.8 2%	1.18	2.52
4-5	2.68	1.95		0.12	0.12	0.20		41.20 %	34.83 %	22.12 %	2980. 20	95.8 1%	1.12	3.62
5-6	3.27	2.17		0.00	0.00	0.07		42.63 %	37.43 %	23.68 %	3311. 28	95.8 1%	1.03	10.94

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	57.63%
Total BEP (% of Installed Capacity)	60.91%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	29.50%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	3.339

Major Queries/Questions Answered in the Report?

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

5. What is the structure of the Red Iron Oxide Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Red Iron Oxide Manufacturing Business?

7. What are the operating costs for setting up Red Iron Oxide Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Red Iron Oxide Manufacturing plant ?

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Red Iron Oxide Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Red Iron Oxide Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Red Iron Oxide Manufacturing Business?**
- 12. What is the Manufacturing Process of Red Iron Oxide ?**

- 13. What is the total size of land required for setting up Red Iron Oxide Manufacturing plant ?**
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The background of the slide is a light gray world map with a grid of latitude and longitude lines. The map is centered on the Indian subcontinent.

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

Tags

#RedIronOxide #mineralore #MiningBusiness #mineralore #mining
#Miningore #ironore #IronOreProduction #IronOreMining #ironoremarket
#ironmarket #steelore #steelindustry #DetailedProjectReport
#businessconsultant #BusinessPlan #feasibilityReport #NPCS

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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.

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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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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

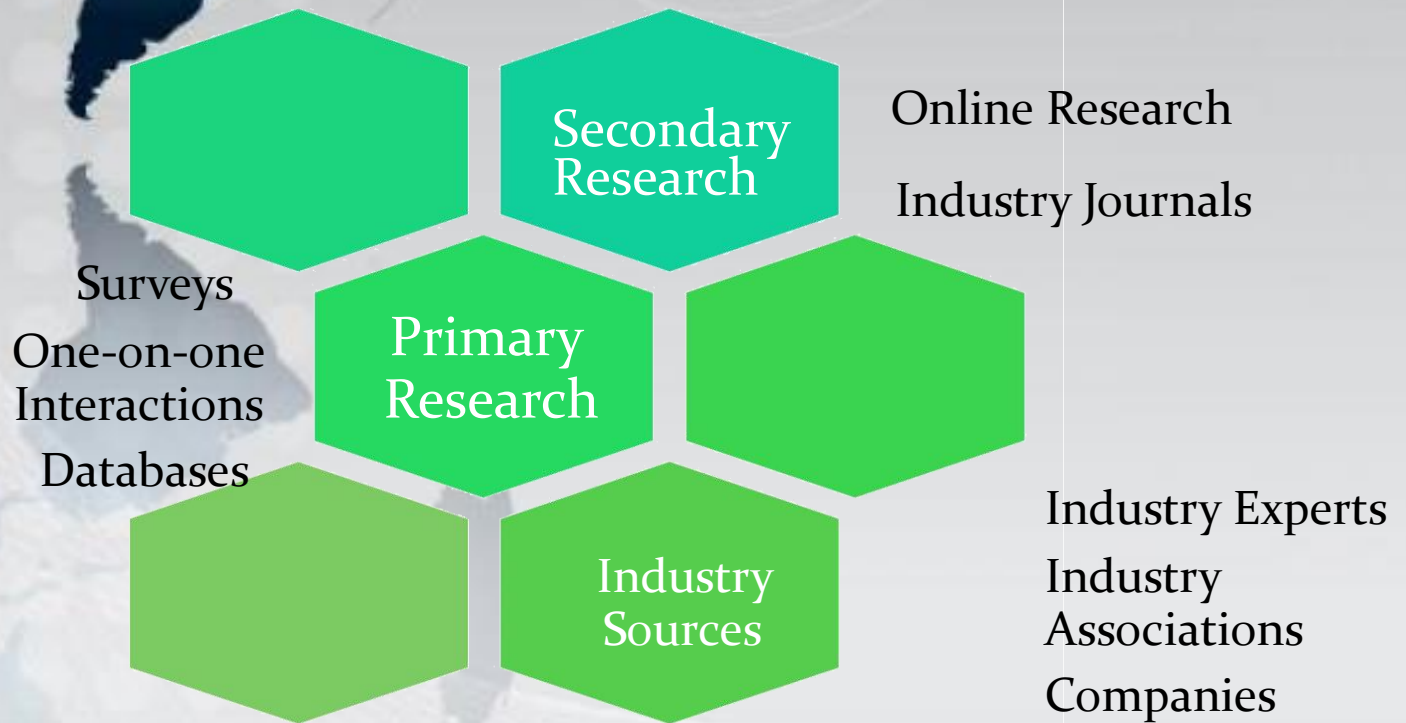
- ∞ To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ∞ To evaluate 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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Contact us

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THANK YOU

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www.niir.org

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