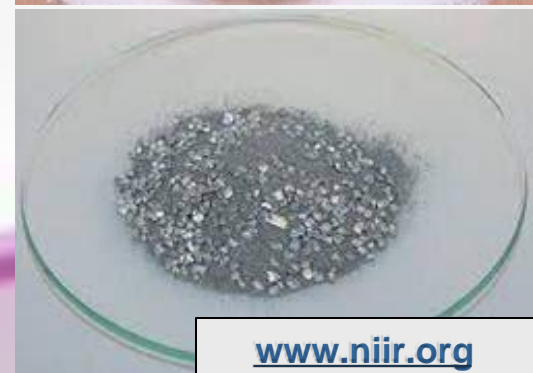


Business Opportunity in Production of

Magnesium **Powder**

from Dolomite Stone





Magnesium (Mg) is a chemical element with the atomic number 12 and the symbol Mg. It's a solid, gleaming grey. Magnesium is the universe's ninth most abundant element. It is created by the sequential addition of three helium nuclei to a carbon nucleus in massive, ageing stars. Much of the magnesium in such stars is ejected into the interstellar medium when they explode as supernovas, where it may be recycled into new stars.





Magnesium is the eighth most abundant element in the Earth's crust and the fourth most common element overall (after iron, oxygen, and silicon), accounting for 13% of the planet's mass and a significant portion of its mantle. After sodium and chlorine, it is the third most abundant element dissolved in seawater. Magnesium is only found in nature in combination with other elements, and it still has a +2 oxidation state.





The free element (metal) can be synthesized artificially and is highly reactive (though it is coated in a thin layer of oxide in the atmosphere, which partially inhibits reactivity – see passivation). The free metal emits a distinctive brilliant-white light. The metal is now primarily produced by electrolysis of magnesium salts extracted from brine and is primarily used as a component in aluminum-magnesium alloys, also known as magnalium or magnelium.



Magnesium is the eleventh most abundant element in the human body by mass, and it is required for the proper functioning of all cells and 300 enzymes. Magnesium ions bind to polyphosphate molecules like ATP, DNA, and RNA. Magnesium ions are required for the function of hundreds of enzymes. Magnesium compounds are used as laxatives, antacids (e.g., milk of magnesia), and to stabilize abnormal nerve excitation or blood vessel spasm in eclampsia.





Dolomite Stone is a sedimentary rock composed primarily of the mineral dolomite, $\text{CaMg}(\text{CO}_3)_2$. Dolomite can be found in sedimentary basins all over the globe. It's thought to have been caused by groundwater rich in magnesium causing a post-depositional change of limestone mud and limestone. In hydrothermal veins, dolomite is also a common mineral.





Dolomite has a stoichiometric ratio of magnesium and calcium that is approximately equal. Before lithification, most dolomite rock formed as a magnesium substitution of limestone or lime mud. Dolomite rock is resistant to erosion and can be found with or without bedded layers. Although it is less soluble in weakly acidic groundwater than limestone, it can still grow solution features (karst) over time. Dolomite rock can be used as a natural gas and oil reservoir.





Magnesium Powder aids in the normal functioning of muscles. Magnesium Powder with Vitamin B2 helps to maintain a healthy energy-producing metabolism. Magnesium Powder helps to maintain electrolyte balance in the body. Magnesium Powder and Vitamin B2 help to alleviate tiredness and fatigue. Zinc is necessary for proper carbohydrate metabolism. Magnesium Powder is widely used for constipation, as an antacid for heartburn, for low magnesium levels, for pregnancy complications such as pre-eclampsia and eclampsia, and for a specific type of irregular heartbeat (torsade de pointes).



Raw Materials

Magnesium is the eighth most abundant element in nature, accounting for 2.4 percent of the Earth's crust. It does not exist in its natural state due to its high reactivity, but it can be found in a variety of compounds in seawater, brines, and rocks. The carbonates dolomite (a compound of magnesium and calcium carbonates, $MgCO_3 \cdot CaCO_3$)...





...and magnetite are the most common ore minerals (magnesium carbonate, $MgCO_3$). The hydroxide mineral brucite ($Mg(OH)_2$) and the halide mineral carnallite ($MgCl_2 \cdot KCl \cdot 6H_2O$, a compound of magnesium and potassium chlorides and water) are both less common. Despite the fact that seawater contains only about 0.13 percent magnesium, it is an almost limitless source.



Extraction and Refining



Magnesium is a powerful chemical reagent that reacts with oxygen and chlorine in both liquid and gaseous states, forming stable compounds. This means that extracting metal from raw materials is a time-consuming and energy-intensive process that necessitates advanced technology....





...Commercial production uses one of two methods: electrolysis of magnesium chloride or the Pidgeon process, which involves thermal reduction of magnesium oxide. Approximately 75% of world magnesium production used to come from electrolysis. However, when China became the world's leading magnesium producer in the early twenty-first century, the low cost of labour and energy in China made the Pidgeon process economically feasible, despite being less efficient than electrolysis.

Electrolytic Processes



The process consists of two steps: the preparation of a magnesium chloride feedstock and the electrolytic dissociation of this compound into magnesium metal and chlorine gas. Various molten salts containing anhydrous (essentially water-free) magnesium chloride, partially dehydrated magnesium chloride, or anhydrous carnallite are used as cell feeds in industrial processes. Dehydrated artificial carnallite is made by controlled crystallisation from heated magnesium- and...



...potassium-containing solutions to prevent impurities found in carnallite ores. The Dow process, which involves mixing seawater with lightly burned reactive dolomite in a flocculator, produces partially dehydrated magnesium chloride. Insoluble magnesium hydroxide settles to the bottom of a settling tank, from which it is pumped as a slurry, filtered, converted to magnesium chloride by reaction with hydrochloric acid, and dried in a series of evaporation steps to a moisture content of 25%. Smelting is the final step in the dehydration process.



Thermal reduction



Dolomite is calcined to produce magnesium oxide (MgO) and lime (CaO), which are then reduced by silicon (Si) to produce magnesium gas and a dicalcium silicate slag.



Chemical equation.

This is endothermic, which means that heat is required to start and maintain it. Heat requirements can be very high when magnesium reaches a vapour pressure of 100 kilopascals (1 atmosphere) at 1,800 °C (3,270 °F). Vacuum is used in industrial processes to reduce reaction temperatures. There are three main processes, each with its own way of providing heat. Ground and calcined dolomite is combined with finely ground ferrosilicon, briquetted, and charged into cylindrical nickel-chromium-steel retorts in the Pidgeon process.





A number of retorts are stacked horizontally in an oil or gas-fired furnace, with their lids and condenser structures extending outward. Magnesium crystals (called crowns) are removed from the condensers after a reaction cycle at 1,200 °C (2,200 °F) and a reduced pressure of 13 Pascals, slag is evacuated as a solid, and the retort is recharged. Dolomite-ferrosilicon briquettes are stacked on a special charge support system in the Bolzano process, which conducts internal electric heating to the charge. At 1,200 °C and 400 Pascals, a complete reaction takes 20 to 24 hours.



Refining

After extraction, crude magnesium metal is transported to cast shops for impurities to be removed, alloying elements to be added, and ingots, billets, and slabs to be formed. A layer of flux or a gas such as sulphur hexafluoride or sulphur dioxide protects molten magnesium metal and alloys from burning during melting and handling. To prevent corrosion during shipping and handling in harsh climatic conditions, suitable ventilated plastic or paper wrappings are required.




Magnesium Powder is a pretty fragmented market. While key companies continue to drive innovation and, in most cases, digital transformations, market leaders and emerging players with niche offerings dominate the overall competitive ecosystem. The market for Magnesium Powder can be segmented based on product types, main applications, and key regions.



The following are the major regions that play a significant role in the Magnesium Powder market:

- 
- 1. North America.**
 - 2. The European Union.**
 - 3. China.**
 - 4. Japan.**
 - 5. Africa and the Middle East.**
 - 6. India.**
 - 7. South America.**



The global magnesium powder market has been growing at a faster rate with significant growth rates over the last few years, and it is expected to increase significantly between 2020 and 2027.

Key Players:-

1. **Next-Generation Steels and Alloys.**
2. **Galaxy Corporation.**
3. **Neeraj Industries.**
4. **Jagada Industries.**
5. **Ar Mines Industries.**

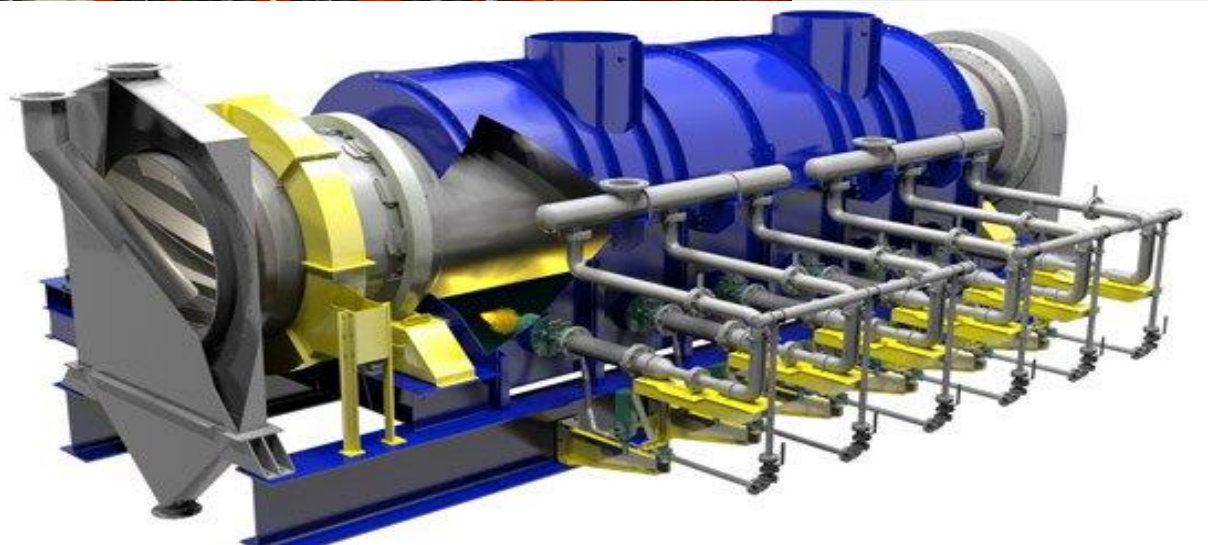


Machinery Photographs

Belt Conveyors



Kiln



Silo



Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	60.00	60.00	Capital	0.00	4761.70	4761.70
Buildings	0.00	11125.00	11125.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	5699.00	5699.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	50.00	50.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	692.00	692.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	200.00	200.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	14285.10	14285.10
Preliminary & Pre-operative Exp	0.00	50.00	50.00	Debentures/ Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	550.00	550.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	620.80	620.80				
TOTAL	0.00	19046.80	19046.80	TOTAL	0.00	19046.80	19046.80

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	
	USD	USD	USD	USD	USD	%	USD	%	USD		%
1-2	340.2 2	792.72	350.2 2	2400.0 0	0.00	100. 00	340.2 2	0.00	340.22	1.00	0.00
2-3	726.4 3	1123.43	1076. 65	1800.0 0	0.00	100. 00	726.4 3	0.00	726.43	1.00	0.00
3-4	1106. 21	1455.00	2182. 86	1200.0 0	0.00	100. 00	1106. 21	0.00	1106.21	1.00	0.00
4-5	1472. 78	1779.66	3655. 64	600.00	0.00	100. 00	1472. 78	0.00	1472.78	1.00	0.00
5-6	1823. 86	2094.23	5479. 49	0.00	0.00	100. 00	1823. 86	0.00	1823.86	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt/Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
								GPM	PBT	PAT	Net Contribution	P/V Ratio		
	Individual	Cumulative	Overall											
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.22	1.22		1.79	1.79	3.30		5.87%	2.99%	2.18%	30229.98	40.63%	2.73	0.89
2-3	1.64	1.42		0.87	0.87	2.00		8.39%	6.07%	3.99%	35137.37	40.48%	2.96	1.08
3-4	2.13	1.64	2.12	0.38	0.38	1.21		10.15%	8.29%	5.31%	40153.88	40.48%	2.99	1.34
4-5	2.69	1.87		0.13	0.13	0.76		11.40%	9.90%	6.28%	45170.39	40.48%	2.88	1.65
5-6	3.34	2.12		0.00	0.00	0.50		12.30%	11.07%	7.00%	50186.90	40.47%	2.69	2.35

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	70.04%
Total BEP (% of Installed Capacity)	72.60%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	25.53%
Payback Period of the Project is (In Years)	2 Years 4 Months
Fixed Assets Coverage Ratio (No. of times)	11.804

Major Queries/Questions Answered in the Report?

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

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

Tags

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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**
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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](#)



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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



- 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

- 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

- 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



- 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.



- 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



- 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



- ⌘ 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

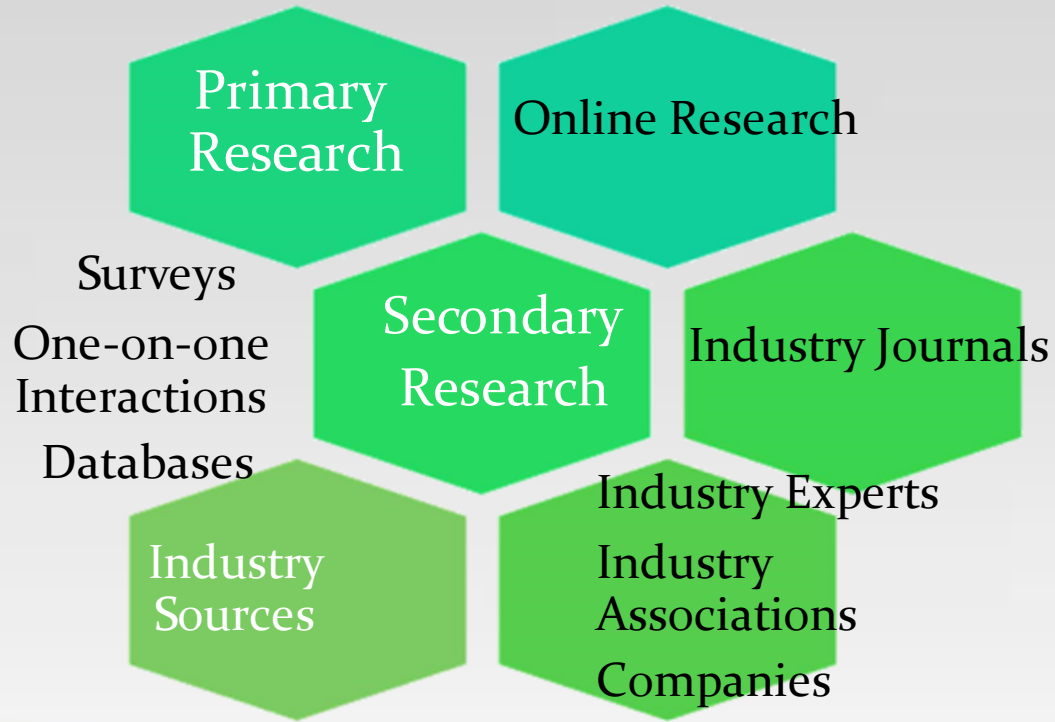


- ⌘ Venturist / Capitalists
- ⌘ Entrepreneur / Companies
- ⌘ Industry Researchers
- ⌘ Investment Funds
- ⌘ Foreign Investors, NRI's
- ⌘ Project Consultants / Chartered Accountants
- ⌘ Banks
- ⌘ Corporates

[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

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



Take a look at *NIIR PROJECT CONSULTANCY SERVICES* on
#Street View

<https://goo.gl/VstWkd>





Contact us

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Take a look at on #StreetView

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THANKYOU