





Oil and Gas Sector in India

Oil and Gas Sector in India is one of the **Fastest Growing Industry of the** economy. Crude oil output totals 267 million tonnes, accounting for 2% of global oil production, while natural gas production totals 636 billion cubic metres, accounting for 5% of global gas production. Since independence, India has discovered significant hydrocarbon resources on land and at sea. Only about 38% (1119 trillion cubic feet) of them have been examined.



At present usage rates, these reserves are expected to last more than 100 years. It is an appealing investment destination and a lucrative business prospect because of its enormous potential.

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Start a Business in Petroleum Industry







Indian energy demand is predicted to expand by 4-5 percent each year over the next 10 years, according to the **Petroleum Planning & Analysis Cell** (PPAC), a division of the Ministry of Petroleum & Natural Gas. This will need investments in the Oil and Gas Sector in India of \$250 billion (Rs 12 lakh crore). Rising incomes, increased urbanisation, industrialisation, population growth, and greater living standards will all contribute to this growth.



Rising Demand of Oil and Gas Sector in India

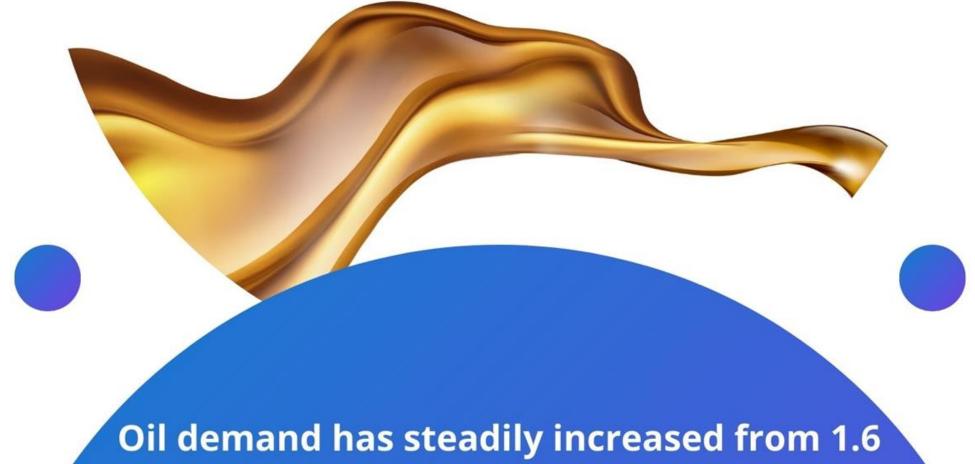
Total energy demand is expected to rise by more than a third between 2012 and 2035, according to the International Energy Agency, with fossil fuels accounting for the majority of this increase.

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Based Products

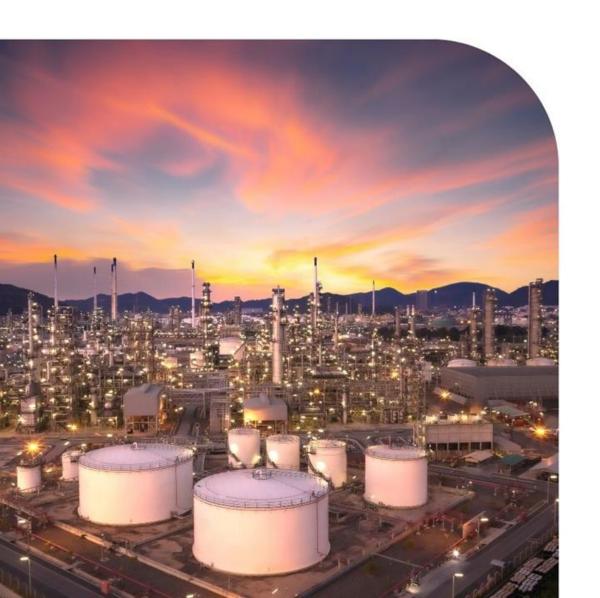






Oil demand has steadily increased from 1.6 billion tonnes in 2010 to roughly 1.8 billion tonnes (b/d) now, owing to economic expansion and fast modernization.





According to the latest IEA report, world oil demand will grow at an average pace of 1.2 million b/d from 2013 to 2030, surpassing 10 million b/d for the first time before 2030.

Petroleum Products, Refining, Greases, Lube Oil, Brake Fluid, Automotive & Industrial Lubricants, Gear Oils, Wax & Wax Products, Paraffin Wax, Polishes, Bitumen, Base Oil, Crude Oil, Fuel Oils, Lubricating Oils, Gear Oils, Kerosene





In other words, non-OECD nations, led by China and India, will account for almost two-thirds of new demand over that time span. With a population of over 1.3 billion people, India is expected to overtake the United States and China as the world's third largest consumer. Although only 2% of its population consumes motor gasoline, compared to 55% in the United States, it will overtake the United States as the third largest consumer in the next five years due to fast GDP growth.



Energy Market with the Fastest Growth

After China and the United States, India is the world's third largest energy and oil consumer.

India is the world's fourth-largest liquefied natural gas importer (LNG). In FY 2019-20, India utilised 213.13 MMT petroleum products and 64.14 BCM natural gas, respectively, up 0.4 percent and 5.5 percent from FY 2018-19 consumption levels.



04

India's oil demand will climb by about 4 million barrels per day by 2040, the biggest increase of any country.



- With a goal of reducing oil and gas import dependency by 10% by 2022.
- The overall number of petroleum retail outlets increased by 7.7% from 18,848 in 2002 to 77,094 in 2021. As of January 2022, this number had risen to 81,099 people.
 - By 2025, the goal is to have 20% ethanol blended into gasoline.



05

India is attempting to transition to a gas-based economy by boosting natural gas's portion of the country's energy mix from 6.3 percent to 15 percent by 2030.

06

The Pradhan Mantri Ji-VAN Yojana aims to set up 12 commercial scale 2G bio-ethanol projects with viability gap funding of up to INR 150 crore per project.

07

The Sustainable Alternative to Affordable Transportation (SATAT) Scheme aims to install 5000 compressed biogas (CBG) units.

08

Natural gas output grew by 19.5% in December 2021 compared to December 2020.



09

Production at petroleum refineries grew by 5.9% in December 2021 compared to December 2020.



Petroleum Products exports were valued at \$ 3732 million in January 2022, up 74.73 percent from \$ 2136 million in January 2021.



Total crude oil output from April to December 2021 was 22378.40 TMT, down 4.47 percent and 2.63 percent from the period's objective and production from the same period previous year, respectively.



Natural gas production totaled 25673.90 MMSCM from April to December 2021, up 21.51 percent from the same period previous year.

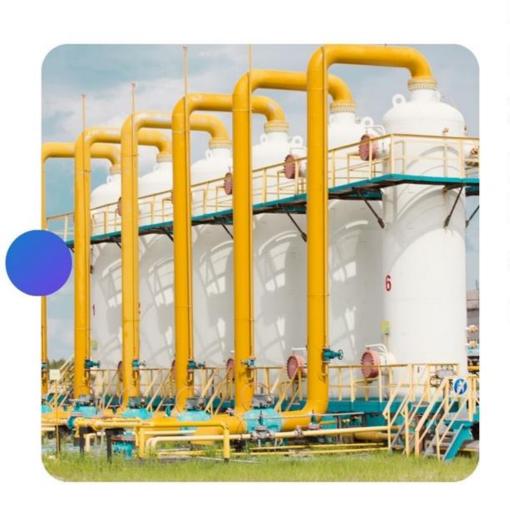


Situation in Industry

India's present refining capacity is 249 MMTPA, with 23 refineries (nine in the public sector, three in the private sector, and one in a joint venture). With a capacity of 80.5 MMTPA, Indian Oil Corporation (IOC) is the largest domestic refiner.



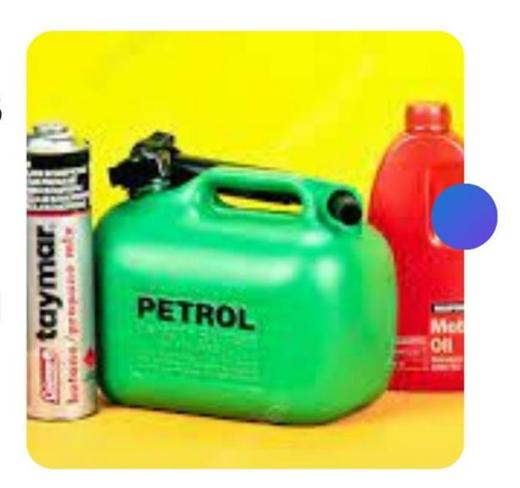




One Gas Grid, One Nation: Up until September 2021, a total of 21735 kilometres of pipelines have been installed as part of the Gas Grid. By 2024-25, India wants to increase pipeline coverage by 60%, to 34,500 kilometres. By 2027, all states should be connected by a trunk national pipeline network.



Over the years, India's output and consumption of petroleum products have steadily increased. Petroleum product production increased by 5.9% YoY to 250 MMT in 2021, compared to 236 MMT in 2020. Petroleum product consumption increased by 3.6 percent YoY to 201 MMT in 2021 from 194 MMT in 2020. Petroleum product exports totaled **USD 7730.20 million in April 2022,** representing a 113.21 percent increase over April 2021.







OMCs have adopted a number of efforts to encourage improved LPG consumption and avoid diversion and supply delays. From April to December 2021, PSU OMCs enlisted 141.15 lakh new domestic consumers. On both coastlines, LNG supply is advancing, with three new LNG terminals and one expansion project under construction on the west coast and two on the east coast. The total capacity will be 62.5 MMTPA when all of the projects are completed.



Opportunities for Entrepreneurs

Oil and Gas Sector in India is one of the fastest growing Industry in the world.





Huge investment opportunities await business entrepreneurs thanks to the government's Make in India campaign. Oil and Gas Sector in India accounts for roughly 8% of the country's GDP. It also employs over 2 million people, either directly or indirectly. Exploration, production, refining, and trading are some of the industries in which an entrepreneur might invest in the oil and gas industry.



The Indian government has made a number of steps to promote entrepreneurship in the oil and gas industry. The Department of Industrial Policy and Promotion, for example, has launched the Ease of Doing Business (EODB) project (DIPP). This project will assist firms in quickly establishing their operations with minimal paperwork. Aside from that, numerous states have created their own programs to encourage entrepreneurship in the Oil and Gas Sector in India.

Read our Books Here: <u>Petroleum, Greases, Petrochemicals,</u>
<u>Lubricants</u>



Future Outlook of Oil and Gas Sector in India



Petroleum is currently one of India's most important imports, accounting for roughly 18 percent of the country's trade deficit. With an annual cost of \$100 billion, oil imports account for the majority of its import bill. The Indian government has been attempting to stimulate renewable energy production in order to cut its oil import cost.



However, there is still a long way to go. Because it will import three times as much oil by 2030 as it does now. To put things in perspective, assuming everything goes according to plan, India's domestic production will increase from 80 mb/d to 120 mb/d by 2020. At present consumption rates, it would still require another 100 mb/d of imported crude. This means that even if India achieves oil production self-sufficiency and a higher GDP growth rate than it does now, it will remain a net importer until 2030.



As a result, the Indian government is taking steps to increase deepwater drilling activity while simultaneously planning to expand refining capacity and other downstream infrastructure. It also intends to spend a significant amount of money on R&D projects such as gas hydrate research. All of these measures are likely to attract private sector investment, which will aid future exploration efforts.

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Growth Factors



\$118 billion in investments by 2024: \$58 billion in exploration and production by 2023, and \$60 billion in natural gas infrastructure by 2024.



City Gas Distribution: The coverage area has increased from 20% to 70%.





Favorable Policies: National Data Repository (NDR), Discovered Small Field Policy (DSF), Natural Gas Marketing and Pricing Freedom, and Unappraised Areas National Seismic Program (NSP). A 48K LKM 2D seismic survey is planned.



Government Incentives: Early production royalty concessions of 10%, 20%, and 30% for Category I, II, and III basins are offered by the government.





Setting up LNG Stations: Even if they do not have a City Gas Distribution licence, any firm can set up LNG stations in any geographical area in India.



Natural Gas Reserve at 1.3 TCM is a plentiful raw material.



Industry Developments

Shale gas deposits of roughly 96 trillion cubic feet are recoverable.





Underground coal gasification is one of the government's captive mining policy's end uses.





Pipeline transportation accounts for 35% of all product mobility.





The Refining Industry:

A refining hub with 23 refineries and plans for expansion in export-oriented infrastructure.





Companies that provide E&P services and equipment: 48 percent of the country's sedimentary area is yet to be investigated.





Some Useful Links

Government Ministry/ Department

- Centre For High Technology
- Directorate General of Hydrocarbons
- Ministry of Petroleum & Natural Gas
- Oil Industry Development Board
- Oil Industry Safety Directorate
- Petroleum & Natural Gas Regulatory Board
- Indian Strategic Petroleum Reserves Ltd. (ISPRL)

Industry Associations

- Petroleum Conservation Research Association
- Petroleum Planning & Analysis Cell

TAGS



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Major Queries/Questions Answered in Business Plan

- 1. How has the industry performed so far and how will it perform in the coming years?
- 2. What is the Business Feasibility Study of the Plant?
- 3. What are the requirements of Working Capital for setting up the plant?
- 4. What is the structure of the industry and who are the key/major players?



- 5. What is the total Startup cost for setting up the plant?
- 6. What are the operating costs for setting up the plant?
- 7. What are the machinery and equipment requirements for setting up the plant?
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?
- 9. What are the requirements of raw material for setting up the plant?





- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?
- 11. What is the Manufacturing Process of the plant?
- 12. What is the total size of land required for setting up the plant?
- 13. What will be the income and expenditures for the plant?
- 14. What are the Projected Balance Sheets of the plant?





- 15. What are the requirement of utilities and overheads for setting up the plant?
- 16. What is the Built up Area Requirement and cost for setting up the plant?
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?
- 18. What are Statistics of Import & Export for the Industry?
- 19. What is the time required to break-even?





- 20. What is the Break-Even Analysis of the plant?
- 21. What are the Project financials of the plant?
- 22. What are the Profitability Ratios of the plant?
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?
- 24. What are the Projected Pay-Back Period and IRR of the plant?
- 25. What is the Process Flow Sheet Diagram of the plant?
- 26. What are the Market Opportunities for setting up the plant?
- 27. What is the Market Study and Assessment for setting up the
 - plant?
- 28. What is the Plant Layout for setting up the plant?



Financial Statements of the Business

Project at a Glance

Annexure

- Land & Building......4

Factory Land & Building Site Development Expenses



Plant & Machinery5
Indigenous Machineries
Other Machineries (Miscellaneous, Laboratory etc.)



- Salary and Wages9

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Equity Capital
Preference Share Capital



- Annexure 1 :: Cost of Project and Means of Finance
- Annexure 2 :: Profitability and Net Cash Accruals
- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals





• Annexure 3 :: Assessment of Working Capital requirements

Current Assets
Gross Working Capital
Current Liabilities
Net Working Capital

Working Note for Calculation of Work-in-process

• Annexure 4 :: Sources and Disposition of Funds





- Annexure 5 :: Projected Balance Sheets
- ROI (Average of Fixed Assets)
- RONW (Average of Share Capital)
- ROI (Average of Total Assets)
- Annexure 6 :: Profitability Ratios

- D.S.C.R
- Earnings Per Share (EPS)
- Debt Equity Ratio





• Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P





• Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP





- Annexure 12 :: Shareholding Pattern and Stake Status
- Equity Capital
- Preference Share Capital
- Annexure 13 :: Quantitative Details-Output/Sales/Stocks
- Determined Capacity P.A of Products/Services
- Achievable Efficiency/Yield % of Products/Services/Items
- Net Usable Load/Capacity of Products/Services/Items
- Expected Sales/ Revenue/ Income of Products/ Services/ Items





• Ann	exure 14	• •	Product wise Domestic Sales Realisation
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- Annexure 15 :: Total Raw Material Cost
- Annexure 16 :: Raw Material Cost per unit
- Annexure 17 :: Total Lab & ETP Chemical Cost
- Annexure 18 :: Consumables, Store etc.
- Annexure 19 :: Packing Material Cost
- Annexure 20 :: Packing Material Cost Per Unit





- Annexure 21 :: Employees Expenses
- Annexure 22 :: Fuel Expenses
- Annexure 23 :: Power/Electricity Expenses
- Annexure 24 :: Royalty & Other Charges
- Annexure 25 :: Repairs & Maintenance Expenses
- Annexure 26 :: Other Manufacturing Expenses
- Annexure 27 :: Administration Expenses
 - Annexure 28 :: Selling Expenses



- Annexure 29 :: Depreciation Charges as per Books (Total)
- Annexure 30 :: Depreciation Charges as per Books (P & M)
- Annexure 31 :: Depreciation Charges as per IT Act WDV (Total)
- Annexure 32 :: Depreciation Charges as per IT Act WDV (P & M)
- Annexure 33 :: Interest and Repayment Term Loans
- Annexure 34 :: Tax on Profits
- Annexure 35 :: Projected Pay-Back Period and IRR





Reasons for Buying Our Business Plan





- The Business Plan 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 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
- ✓ The Business Plan provides a glimpse of government regulations applicable on the industry
- ✓ The Business Plan provides forecasts of key parameters which helps anticipate the industry performance and make sound business decisions









- 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



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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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A trusted and leading name in the industry, we have been putting forth exceptionally integrated and comprehensive technical consultancy services. We believe that project consultancy serves as a critical element for the success of your projects. Moreover, we keep in mind that no client is the same and nor are the requirements. Therefore, we ensure uniqueness in every service you avail from us.

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- > Selection of Right Business Ideas For You (Project Identification)
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- Technology Books and Directory
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- > 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



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- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- o NRI's
- Foreign Investors
- 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,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- o 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



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- Dairy/Milk Processing
- o Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- o Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- o 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
- 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
- o Medical Plastics, Disposables Plastic Syringe, Blood Bags
- o Organic Farming, Neem Products Etc.
- o Paints, Pigments, Varnish & Lacquer
- 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
- o 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
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- 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





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

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Data Sources

AN ISO 9001 : 2015 CERTIFIED COMPANY

Scope & Coverage

Online Research Industry Journals Primary Research

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One-on-one Interactions

Databases

Secondary Research

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Industry
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