High Temperature Aluminium Based Paint Manufacturing Industry.

Production of Heat Resistant Aluminium Paint

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**Introduction**

It was specifically designed to provide a fantastic close-to-chrome look in temperatures up to 1200°F. This chrome-like look is achieved with metallic aluminum pigments. This high temperature aluminum paint is perfect for large equipment, stoves, grills, smokers, exhaust components, and more. High Temperature Aluminium Paint is a high quality enamel for use at temperatures up to 450°C indirect heat. High Temperature Aluminium Paint is ideal for use in areas prone to heat and may be used as a single coat for fire surrounds, radiators, and hot pipes.
Market Outlook

High temperature coatings are designed to withstand temperatures above 150°C (302°F) while providing protection against corrosion. Composed of either organic or inorganic materials, high temperature coating resins could either be an epoxy, epoxy phenolic, epoxy novolac, silicone, or a more specialized multi-polymeric matrix depending on the level of temperature resistance required.

The drivers identified for the high temperature coatings market are growing power & chemical plants and oil & industry, cookware, bakeware, & small appliances, woodstoves, gas stoves & barbecue grills, marine, automotive, and aerospace industries.
Countries such as China, U.S., and India, are the major markets of high temperature coatings. The market in countries of the Middle East and Africa are also growing. In developed countries such as the U.S., Spain, Germany, Japan, and Italy, the market is growing at a low-to-moderate rate.

The market size, in terms of value, of high temperature coatings was estimated to be about USD 3.39 Billion in 2015 and is projected to reach USD 4.24 Billion by 2020, at a CAGR of 4.56% between 2015 and 2020.
The drivers for the growth of the high temperature coatings market include the end-use industries, shift in preference toward solvent-free high temperature coatings, and the increased demand for high temperature coatings from the Asia-Pacific region. The restraints for the market include volatility in raw material prices and legislations curbing the use of hazardous chemicals. The opportunities for the high temperature coatings industry are leveraging technology requirements and regulations in higher value sectors and targeting current as well as potential markets where high temperature coatings can be used.
The automotive industry is expected to grow at a stable pace during the forecast period. In the automotive industry, high-temperature coatings are widely used to protect vehicles from rust and deterioration, thereby providing vehicles with a long lifespan. It is usually applied on the undercarriage of vehicles where it is more exposed to harsh conditions such as high temperature, pressure, and moisture content.
Paints & Coatings Industry

The Indian paint and coating industry is expected to grow steadily in the short and medium term on the back of strong growth in Indian economy. India’s young population represents a huge opportunity as more young Indians join the workforce and will have disposable income available.

Over the last few years, India has been experiencing a major growth in paint sales. Increasing levels of income, education and increasing urbanization has helped the paint market to grow considerably. In addition to this, usage of enamel and emulsion paints over traditional white wash, increasing penetration in the rural market and digitalization are also driving the paint industry.
US demand for paint and coatings is forecast to grow 3.8 percent annually to 1.4 billion gallons in 2019, valued at $31.5 billion. Gains will be driven by a strong rebound in construction activity, which will stimulate demand in the architectural market. Architectural markets for paint and coatings will continue to be the main outlet for the industry, growing at an above average rate through 2019 as demand is driven by an improved outlook for both residential and nonresidential construction.

The paints & coatings market is projected to reach USD 209.36 Billion by 2022, at a CAGR 5.45% from 2017 to 2022.
The market is largely driven by the increasing demand for paints & coatings from various end-use industries, such as construction, automotive, marine, protective, aerospace, transportation, rail coatings, wood coatings, packaging, and general industrial. The growth of the paints & coatings market can also be attributed to increased investments by the key players to launch efficient and cost-effective products, as well as for expansion and merger & acquisition activities.

Paints and coatings are mainly used to protect machines and equipment from rusting and corrosion in industries. As for consumer goods, they serve the purpose of keeping corrosion at bay and make products look better. Architectural and decorative paints and coatings are used mainly applied on interior and exterior walls of houses and corporate buildings. Based on their formulation, there are basically two types of architectural and decorative paints and coatings: water-based and solvent-based.
Heat Reflective Paints & Coatings Market:

The global market for heat reflective paints & coatings will continue to increase owing to the increased exposure of different end-user areas, such as residential & commercial infrastructure, automotive etc., in the global economy. These are the paints & coatings that reflect most part of the sunlight (both visible and invisible), thus reducing energy absorption by surface. Once applied on the exterior surface of the structure, it reduces the energy emittance toward the inside. Thus, for any building or structure, the air-conditioning load for maintaining the ambient temperature also reduces. This indirect way of reducing the energy load and controlling the emission is being supported by many governments across the globe. This trend is expected to continue during the forecast period 2016–2022, to further improve the heat reflective paints & coatings market at a CAGR of 6.5%, and take it to $26.07 billion by 2022.
The automotive sector is one of the major contributors toward the heat reflective paints & coatings market. The high growth in economies and the increasing per capita income among consumers in the developing countries are increasing the demand for automobiles. This, in turn, is increasing the demand for heat reflective paints & coatings in this area. This trend is expected to continue in the automotive sector, thus leading the market during the forecast period. In the emerging economies, such as China, India, and Brazil, industrial infrastructure & equipment market is growing, which is expected to impact the heat reflective paints & coating market positively. Further, the use of heat reflective paints & coatings is increasing in building & construction, industrial, consumer goods, and oil & gas industries.
Regionally, Asia Pacific dominates the global heat reflective paints & coatings market with the biggest contribution coming from the Chinese market. The developed economies are following with a close gap among each other, while the North American market has expecting slightly higher growth than Europe. The increasing market penetration in developing countries is also expected to push the global market potential giving boost to the market revenue growth.
Machinery Photographs

Ball Mill

Storage Tank
Filling and Sealing Machine
## Project at a Glance

### COST OF PROJECT

<table>
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<tr>
<th>Particulars</th>
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### MEANS OF FINANCE

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# Project at a Glance

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<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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<td>CEPS</td>
<td>Per Share</td>
<td>Per Share</td>
<td>Per Share</td>
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<td>%</td>
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## Project at a Glance

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<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as- Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Asset Turnover Ratio</th>
<th>Current Ratio</th>
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<td></td>
<td>Initial</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
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<td>%</td>
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<td>1.56</td>
<td>1.56</td>
<td>2.90</td>
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<td>5.02%</td>
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<td>1.71</td>
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<td>7.36%</td>
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<td>0.48</td>
<td>13.91%</td>
<td>10.79%</td>
<td>32.38%</td>
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**Notes:**
- **D. S. C. R.** stands for Debt Service Coverage Ratio.
- **GPM** stands for Gross Profit Margin.
- **PBT** stands for Profit Before Tax.
- **PAT** stands for Profit After Tax.
- **Net Contribution** indicates the net profit contribution.
- **P/V Ratio** stands for Price to Earnings Ratio.
## Project at a Glance

<table>
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<th>BEP</th>
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<td><strong>BEP - Maximum Utilisation Year</strong></td>
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<tr>
<td><strong>Cash BEP (% of Installed Capacity)</strong></td>
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<tr>
<td><strong>Total BEP (% of Installed Capacity)</strong></td>
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<tr>
<td><strong>IRR, PAYBACK and FACR</strong></td>
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<tr>
<td><strong>Internal Rate of Return .. ( In %age )</strong></td>
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<tr>
<td><strong>Payback Period of the Project is ( In Years )</strong></td>
<td>2 Years 3 Months</td>
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<tr>
<td><strong>Fixed Assets Coverage Ratio ( No. of times )</strong></td>
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Major Queries/Questions Answered in the Report?

1. What is High Temperature Aluminium Based Paint Manufacturing industry?

2. How has the High Temperature Aluminium Based Paint Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of High Temperature Aluminium Based Paint Manufacturing Plant?

4. What are the requirements of Working Capital for setting up High Temperature Aluminium Based Paint Manufacturing plant?
5. What is the structure of the High Temperature Aluminium Based Paint Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up High Temperature Aluminium Based Paint Manufacturing Business?

7. What are the operating costs for setting up High Temperature Aluminium Based Paint Manufacturing plant?

8. What are the machinery and equipment requirements for setting up High Temperature Aluminium Based Paint Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up High Temperature Aluminium Based Paint Manufacturing plant?

10. What are the requirements of raw material for setting up High Temperature Aluminium Based Paint Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up High Temperature Aluminium Based Paint Manufacturing Business?

12. What is the Manufacturing Process of High Temperature Aluminium Based Paint?
13. What is the total size of land required for setting up High Temperature Aluminium Based Paint Manufacturing plant?

14. What will be the income and expenditures for High Temperature Aluminium Based Paint Manufacturing Business?

15. What are the Projected Balance Sheets of High Temperature Aluminium Based Paint Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up High Temperature Aluminium Based Paint Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up High Temperature Aluminium Based Paint Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up High Temperature Aluminium Based Paint Manufacturing Business?

19. What are Statistics of Import & Export for High Temperature Aluminium Based Paint?

20. What is the time required to break-even of High Temperature Aluminium Based Paint Manufacturing Business?

21. What is the Break-Even Analysis of High Temperature Aluminium Based Paint Manufacturing plant?

22. What are the Project financials of High Temperature Aluminium Based Paint Manufacturing Business?
23. What are the Profitability Ratios of High Temperature Aluminium Based Paint Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of High Temperature Aluminium Based Paint Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of High Temperature Aluminium Based Paint Manufacturing plant?

26. What is the Process Flow Sheet Diagram of High Temperature Aluminium Based Paint Manufacturing project?
27. What are the Market Opportunities for setting up High Temperature Aluminium Based Paint Manufacturing plant?

28. What is the Market Study and Assessment for setting up High Temperature Aluminium Based Paint Manufacturing Business?

29. What is the Plant Layout for setting up High Temperature Aluminium Based Paint Manufacturing Business?
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      1.1.2. Physical Characteristics
      1.1.3. Languages and Culture
      1.1.4. Climate & Rainfall
      1.1.5. Map
      1.1.6. Transportation and Communications
      1.1.7. Economy & Industry

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4. PRODUCT DETAILS

5. USES & APPLICATIONS

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   6.1. HIGH TEMPERATURE COATINGS MARKET
   6.2. TECHNOLOGY SEGMENT
   6.3. END-USE SEGMENT
   6.4. GROWING TRANSPORTATION INDUSTRY IN ASIA-PACIFIC
   6.5. EPOXY-BASED HEAT RESISTANT COATINGS TO DOMINATE THE MARKET
   6.6. MAJOR PLAYERS
   6.7. HIGH TEMPERATURE COATINGS MARKET TRENDS & GROWTH
   6.8. SEGMENTATION BASED ON RESIN TYPE
7. **EXPORT & IMPORT: ALL COUNTRIES**

7.1. EXPORT: ALL COUNTRIES

7.2. IMPORT: ALL COUNTRIES

8. **FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES**

8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE

8.2. PROFITS & APPROPRIATIONS

8.3. TOTAL LIABILITIES

8.4. TOTAL ASSETS

8.5. NET CASH FLOW FROM OPERATING ACTIVITIES

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8.6.2. Name of Director(S)

8.6.3. Plant Capacity

8.6.4. Credit Ratings

8.6.5. Location of Plant

8.6.6. Name of Raw Material(S) Consumed with Quantity & Cost

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8.7.1. Assets

8.7.2. Cash Flow

8.7.3. Cost as % of Sales

8.7.4. Forex Transactions

8.7.5. Growth in Assets & Liabilities

8.7.6. Growth in Income & Expenditure

8.7.7. Income & Expenditure

8.7.8. Liabilities

8.7.9. Liquidity Ratios

8.7.10. Profitability Ratio
8.7.11. Profits
8.7.12. Return Ratios
8.7.13. Structure of Assets & Liabilities (%)
8.7.14. Working Capital & Turnover Ratios

9. COMPANY PROFILE OF MAJOR PLAYERS

10. EXPORT & IMPORT STATISTICS DATA OF INDIA

10.1. EXPORT STATISTICS DATA OF ALUMINIUM PAINT
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12. RAW MATERIALS DESCRIPTION

13. MANUFACTURING PROCESS

13.1. COMPOSITION OF PRODUCT
13.2. PLANT & MACHINERY
13.3. PROCESS DETAILS

14. PROCESS FLOW DIAGRAM

15. TEST METHODS

16. PACKING AND MARKING
17. MATERIAL HANDLING

17.1. LARGE SPILLAGES
17.2. APPROPRIATE ENGINEERING CONTROLS
17.3. WASTE GENERATION

18. BUYER’S LIST

18.1. CONTACT DETAILS OF BUYER’S
18.2. NAME OF DIRECTOR(S)
18.3. PLANT CAPACITY
18.4. CREDIT RATINGS
18.5. LOCATION OF PLANT
18.6. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

19. SUPPLIERS OF PLANT & MACHINERY

20. SUPPLIERS OF RAW MATERIAL

21. PHOTOGRAPHS / IMAGES FOR REFERENCE

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21.2. RAW MATERIAL PHOTOGRAPHS
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- Plant Economics
- Production Schedule
- Land & Building

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  Preference Share Capital
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- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
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  - Gross Working Capital
  - Current Liabilities
  - Net Working Capital
  - Working Note for Calculation of Work-in-process

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- RONW (Average of Share Capital)
- ROI (Average of Total Assets)

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- Semi-Variable/Semi-Fixed Expenses
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- B.E.P
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- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
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- Preference Share Capital

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• Annexure 17 :: Total Lab & ETP Chemical Cost

• Annexure 18 :: Consumables, Store etc.

• Annexure 19 :: Packing Material Cost

• Annexure 20 :: Packing Material Cost Per Unit
<table>
<thead>
<tr>
<th>Annexure 21</th>
<th>Employees Expenses</th>
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<td>Annexure 24</td>
<td>Royalty &amp; Other Charges</td>
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<td>Annexure 25</td>
<td>Repairs &amp; Maintenance Expenses</td>
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<td>Other Manufacturing Expenses</td>
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<td>Administration Expenses</td>
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<td>Annexure 28</td>
<td>Selling Expenses</td>
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• Annexure 29 :: Depreciation Charges – as per Books (Total)
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• Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)
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• Annexure 33 :: Interest and Repayment - Term Loans
• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
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 its characteristics and segmentation.

• This report helps you market and place the product correctly by identifying the target customer group of the product.

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• 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.
The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on High Temperature Aluminium Based Paint.” provides an insight into High Temperature Aluminium Based Paint market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of High Temperature Aluminium Based Paint project. The report assesses the market sizing and growth of the Indian High Temperature Aluminium Based Paint 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 High Temperature Aluminium Based Paint sector in India along with its business prospects. Through this report we have identified High Temperature Aluminium Based Paint project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on High Temperature Aluminium Based Paint Manufacturing Industry.

Production of Heat Resistant Aluminium Paint

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Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

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Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites......Read more
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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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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients’ in India & abroad

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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.
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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
Our Approach

1. Requirement collection
2. Thorough analysis of the project
3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation

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