Low Carbon Silicomanganese Production. Manufacturing Project of Low Carbon Silico Manganese.

Production of Ferroalloys.

Global Ferroalloys market expected to reach USD 53.5 billion by 2020, expanding at 5.4% CAGR between 2014 and 2020.
Introduction

Low Carbon Silico Manganese which is popularly known as LCSiMn is a ferrous alloy with content of carbon, silica and manganese. A large number of steel producing companies extensively demand low carbon silico managanese for reducing total production treatment by using these at the time of slag reduction instead of HCFeMn and decarburization process. Low level carbon silico manganese is extensively appreciated for reducing the lining attack that may cause due to less fluid slag (less MnO).
Manganese alloys are mostly used in steelmaking and foundry activities. Manganese is a gray-white metal resembling iron. It is a hard metal and is very brittle, fusible with difficulty, but easily oxidized. Manganese metal and its common ions are paramagnetic. This means that, while manganese metal does not form a permanent magnet, it does exhibit strong magnetic properties in the presence of an external magnetic field.
Market Outlook

The future of the global ferroalloys market is healthy, expanding at an estimated CAGR of 5.9% during the forecast period of 2017 to 2025. The prosperity of the building and construction industry in a number of emerging economies is another key driver of the global ferroalloys market, wherein the development of lightweight and high strength steel grades is expected to open new opportunities. On the other hand, stringent governmental regulations pertaining to the environment and high operational costs are two glaring restraints over the global ferroalloys market.
The market for ferroalloys, worldwide, is projected to reach a valuation of US$188.7 bn by the end of 2025, significantly up from its evaluated worth of US$112.8 bn in 2016.
Global Ferroalloys Market Share (%)

By Region (2017)

- North America: XX.X
- Latin America: XX.X
- Europe: XX.X
- Middle East and Africa: XX.X

79.5% Asia Pacific

CAGR 5.9%
(2017 – 2025)
## Ferro Alloy

### Demand: Past and Future

<table>
<thead>
<tr>
<th>Year</th>
<th>(In '000 Metric Tonne)</th>
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<tbody>
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<td>560</td>
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<td>2000-01</td>
<td>838</td>
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<tr>
<td>2001-02</td>
<td>682</td>
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<tr>
<td>2002-03</td>
<td>842</td>
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<td>960</td>
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<td>2005-06</td>
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<td>2016-17</td>
<td>1600</td>
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<td>2017-18</td>
<td>1675</td>
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<td>2018-19</td>
<td>1785</td>
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<tr>
<td>2019-20</td>
<td>1845</td>
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<tr>
<td>2024-25</td>
<td>2445</td>
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</tbody>
</table>
Machinery Photographs

Submerged Arc Furnace

Submerged Arc Furnace Profile

Vibrating Feeder
Few Indian Major Players are as under

• Acme Ferro Alloys Pvt. Ltd.
• Balasore Alloys Ltd.
• Hitech Electro Thermics & Hydro Power Limited
• Jagat Alloys Pvt. Ltd.
• Padmavati Ferrous Ltd.
• Shri Girija Alloy & Power (India) Pvt. Ltd.
# Project at a Glance

## PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
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<td>Land &amp; Site Development</td>
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<td>475.00</td>
<td>Capital</td>
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<td>Exp.</td>
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<td>Other Type Share</td>
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<td>Plant &amp; Machineries</td>
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<td>Capital</td>
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<td>15.00</td>
<td>Reserves &amp; Surplus</td>
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<td>Equipments</td>
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<td>Technical Knowhow Fees &amp; Exp.</td>
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<td>50.00</td>
<td>Internal Cash Accruals</td>
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<td>Franchise &amp; Other Deposits</td>
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<td>Long/Medium Term Borrowings</td>
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<td>3.50</td>
<td>Debentures / Bonds</td>
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<td>Unsecured Loans/Deposits</td>
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## Project at a Glance

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<th>Year</th>
<th>Annualised Book Value</th>
<th>Debt : Equity Ratio</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value</th>
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<td>EPS</td>
<td>CEPS</td>
<td>Per Share</td>
<td>Per Share</td>
<td>%</td>
<td>%</td>
<td>No.of Times</td>
<td>%</td>
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<td>1-2</td>
<td>5.36</td>
<td>9.43</td>
<td>15.36</td>
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<td>0.00</td>
<td>100.0</td>
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<td>17.33</td>
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## Project at a Glance

<table>
<thead>
<tr>
<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>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<tr>
<td></td>
<td>Individu...</td>
<td>(Number of times)</td>
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<td></td>
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<td></td>
<td>Cumulative</td>
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<td></td>
<td>Overall</td>
<td></td>
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<td></td>
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<tr>
<td>Initial</td>
<td>3.00</td>
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<td>1-2</td>
<td>1.37</td>
<td>1.37</td>
<td>1.56</td>
<td>1.56</td>
<td>2.00</td>
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<td>0.76</td>
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<td>1.09</td>
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<td>0.59</td>
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<td>0.32</td>
<td>24.99%</td>
<td>22.29%</td>
<td>14.17%</td>
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<td>5-6</td>
<td>3.12</td>
<td>2.08</td>
<td>0.00</td>
<td>0.00</td>
<td>0.16</td>
<td>26.22%</td>
<td>24.28%</td>
<td>15.36%</td>
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<td>BEP</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>-----</td>
<td>------------------------------------------------------------------</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>55.26%</td>
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<td></td>
<td></td>
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<td>IRR, PAYBACK and FACR</td>
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<tr>
<td>Internal Rate of Return .. ( In %age )</td>
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<td>Payback Period of the Project is ( In Years )</td>
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<td>Fixed Assets Coverage Ratio ( No. of times )</td>
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<td></td>
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Major Queries/Questions Answered in the Report?

1. **What is Low Carbon Silicomanganese Manufacturing industry?**

2. **How has the Low Carbon Silicomanganese Manufacturing industry performed so far and how will it perform in the coming years?**

3. **What is the Project Feasibility of Low Carbon Silicomanganese Manufacturing Plant?**

4. **What are the requirements of Working Capital for setting up Low Carbon Silicomanganese Manufacturing plant?**
5. What is the structure of the Low Carbon Silicomanganese Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Low Carbon Silicomanganese Manufacturing plant?

7. What are the operating costs for setting up Low Carbon Silicomanganese Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Low Carbon Silicomanganese Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Low Carbon Silicomanganese Manufacturing plant?

10. What are the requirements of raw material for setting up Low Carbon Silicomanganese Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Low Carbon Silicomanganese Manufacturing plant?

12. What is the Manufacturing Process of Low Carbon Silicomanganese?
13. What is the total size of land required for setting up Low Carbon Silicomanganese Manufacturing plant?

14. What will be the income and expenditures for Low Carbon Silicomanganese Manufacturing plant?

15. What are the Projected Balance Sheets of Low Carbon Silicomanganese Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Low Carbon Silicomanganese Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Low Carbon Silicomanganese Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Low Carbon Silicomanganese Manufacturing Business?

19. What are Statistics of Import & Export for Low Carbon Silicomanganese?

20. What is the time required to break-even of Low Carbon Silicomanganese Manufacturing plant?

21. What is the Break-Even Analysis of Low Carbon Silicomanganese Manufacturing plant?

22. What are the Project financials of Low Carbon Silicomanganese Manufacturing plant?
23. What are the Profitability Ratios of Low Carbon Silicomanganese Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of Low Carbon Silicomanganese Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Low Carbon Silicomanganese Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Low Carbon Silicomanganese Manufacturing project?
27. What are the Market Opportunities for setting up Low Carbon Silicomanganese Manufacturing plant?

28. What is the Market Study and Assessment for setting up Low Carbon Silicomanganese Manufacturing plant?

29. What is the Plant Layout for setting up Low Carbon Silicomanganese Manufacturing Business?
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6.2. Demand Drivers of Ferro Alloys
6.3. Domestic Market
6.4. Export Market
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7.1. Export: All Countries
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8.6. Section – I
8.6.1. Name of Company with Contact Details
8.6.2. Name of Director(S)
8.6.3. Plant Capacity
8.6.4. Location of Plant
8.6.5. Name of Raw Material (S) Consumed with Quantity & Cost
8.7. Section – II
8.7.1. Assets
8.7.2. Cash Flow
8.7.3. Cost as % ge of sales
8.7.4. Forex Transaction
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 (%)
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14.2. Name of Director(S)
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15. SUPPLIERS OF PLANT & MACHINERY

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   17.2. Raw Material Photographs
   17.3. Product Photographs

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- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building
- Factory Land & Building
- Site Development Expenses

Annexure
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Annexure

- Factory Land & Building
- Site Development Expenses

www.entrepreneurindia.co
- **Plant & Machinery**
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

- **Other Fixed Assets**
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies

- **Working Capital Requirement Per Month**
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
- Overheads Required Per Month and Per Annum: 8
- Utilities & Overheads (Power, Water and Fuel Expenses etc.)
- Royalty and Other Charges
- Selling and Distribution Expenses

- Salary and Wages: 9

- Turnover Per Annum: 10

- Share Capital: 11

Equity Capital
Preference Share Capital
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- Expenses/Cost of Products/Services/Items
- 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
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- RONW (Average of Share Capital)
- ROI (Average of Total Assets)

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- Debt Equity Ratio
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- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
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- Resultant DER
- Resultant ROI
- Resultant BEP
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  - Equity Capital
  - Preference Share Capital
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  - Determined Capacity P.A of Products/Services
  - Achievable Efficiency/Yield % of Products/Services/Items
  - Net Usable Load/Capacity of Products/Services/Items
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• Annexure 16 :: Raw Material Cost per unit

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• Annexure 18 :: Consumables, Store etc.

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- **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

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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 its 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.

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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 Low Carbon Silicomanganese” provides an insight into the Low Carbon Silicomanganese market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Low Carbon Silicomanganese project. The report assesses the market sizing and growth of the Indian Low Carbon Silicomanganese 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 Low Carbon Silicomanganese sector in India along with its business prospects. Through this report we have identified Low Carbon Silicomanganese project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Low Carbon Silicomanganese Production. Manufacturing Project of Low Carbon Silico Manganese. Production of Ferroalloys. Global Ferroalloys market expected to reach USD 53.5 billion by 2020, expanding at 5.4% CAGR between 2014 and 2020.

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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.

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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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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
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- 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
Contact us

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