Production of Low Carbon Ferrochrome


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High Carbon Ferro- manganese containing about 7% carbon is not suitable for the production of steels or other alloys containing manganese in which it is desired to maintain the carbon at low level. For the manufacture of such materials the manganese must be added either as the relatively pure metal or in the form of an addition alloy with a low content of carbon.
It is a Ferro alloy with high content of manganese. It gives strength to steel and is used in making of high tension steel. Low carbon Ferro manganese is widely used in the manufacturing of tool steels, alloys steel & structural steels. Its property causes it to have a high affinity with sulphur in the steel and on combining produces Manganese Sulphide (MnS) which floats up to the metal surface.
Low Carbon Ferro Manganese is used as a de-oxidizer and hence finds its usage in the manufacture of 18-8 Austenitic non-magnetic stainless steel.
Market Outlook

India’s Ferrochrome (FeCr) industry, with 1mntpa production, contributes 9% of the 11mnt global FeCr output. India exports ~50% of annual FeCr production.
India Contributes 9% of Global FeCr Output
India’s FeCr Production

![Graph showing India's FeCr Production from 2010 to 2021F. The production has increased from 500 ktpa in 2010 to 1,400 ktpa in 2021F.](Image)
Nearly 60 percent of the world's production of global chrome ore -- used to make stainless steel raw material ferrochrome. Global steel demand will rise by a meagre 0.2 percent this year.
Few Indian Major Players are as under

- Acme Ferro Alloys Pvt. Ltd.
- Anjaney Ferro Alloys Ltd.
- Balasore Alloys Ltd.
- Impex Ferro Tech Ltd.
- Indian Metals & Alloys Ltd.
- Indsil Hydro Power & Manganese Ltd.
# 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>1472.15</td>
<td>Other Type Share</td>
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<td><strong>4001.28</strong></td>
<td><strong>TOTAL</strong></td>
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## Project at a Glance

<table>
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<th>Year</th>
<th>Annualised EPS</th>
<th>Annualised CEPS</th>
<th>Annualised Book Value</th>
<th>Annualised Debt</th>
<th>Annualised Dividend</th>
<th>Annualised Retained Earnings</th>
<th>Annualised Payout</th>
<th>Annualised Probable Market Price</th>
<th>Annualised P/E Ratio</th>
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## Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as-Deposits Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>GPM</th>
<th>PBT</th>
<th>PAT</th>
<th>Net Contribution</th>
<th>P/V Ratio</th>
<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<tr>
<td>Individ -Cumulative</td>
<td>Overall</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<td>0.64</td>
<td>22.79</td>
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<td>23.93</td>
<td>22.06%</td>
<td>13.96%</td>
<td>6001.71</td>
<td>50.01%</td>
<td>1.57</td>
<td>4.52</td>
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## Project at a Glance

<table>
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<tr>
<th>BEP</th>
<th>Maximum Utilisation Year</th>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<tr>
<td>Total BEP (% of Installed Capacity)</td>
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<tr>
<td>IRR, PAYBACK and FACR</td>
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<tr>
<td>Internal Rate of Return (In %age)</td>
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<tr>
<td>Payback Period of the Project is (In Years)</td>
<td>2 Years 3 Months</td>
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<tr>
<td>Fixed Assets Coverage Ratio (No. of times)</td>
<td>5.209</td>
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</table>
Major Queries/Questions Answered in the Report?

1. What is Low Carbon Ferrochrome Manufacturing industry?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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16.1. Contact Details of Buyer’s
16.2. Name of Director(S)
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19. PRODUCT, MACHINERY & RAW MATERIAL PHOTOGRAPHS

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• Plant Economics

• Production Schedule

• Land & Building

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- Resultant ROI
- Resultant BEP

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• 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 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 projectfinancials

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

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Selection process starts with the generation of a product idea. In order to select the most promising project, the entrepreneur needs to generate a few ideas about the possible projects. Here’s we offer a best and easiest way for every entrepreneur to searching criteria of projects on our website www.entrepreneurindia.co that is “Instant Online Project Identification and Selection”
NPCS 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.

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Mobile: +91-9811043595
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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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- Market Research Reports
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- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)
How are we different?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*
Our Approach

- Requirement collection
- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
Sectors We Cover

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
Sectors We Cover

- 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

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Sectors We Cover

- 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

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover

- 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

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Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable
Contact us

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