Low Carbon Ferromanganese Production.

Manufacturing Project of Low Carbon Ferromanganese.

Production of Ferroalloys

[NPCS/3250/23379]

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Introduction

Low Carbon Ferro Manganese is widely used to manufacture tool steel and structural steel products. Low carbon ferro manganese required where carbon control in steel is strictly necessary 7% C and 74 - 78% Mn is a standard ferro manganese used for the purpose allowing and deoxidation.

Ferro Manganese Low Carbon is also a major constituent of Mild Steel Welding Electrodes (E6013) and other electrodes.
Ferromanganese is a ferroalloy that has high content of manganese; it is manufactured by heating mixture of oxides Fe2O3 and MnO2 along with carbon, which is usually coke and coal in an electric arc furnace or blast furnace. In the furnace, the oxides go through carbothermal reduction, hence, producing ferromanganese which is used as deoxidizer for steel. Main producing countries of Ferro Manganese are India, South Africa, Korea & Europe.

Manganese is largely used for creation of iron and steel alloys for building purposes, ceramics, bricks, catalyst and many more. Ferro Manganese is used in welding flux industry, in steel industry as a deoxidizer for steel and many other uses. Low Carbon Ferro Manganese that is widely acclaimed for its optimum quality and accurate composition.
Ferromanganese is segmented into two types namely, high carbon ferromanganese and medium carbon ferromanganese. The primary features of this element include good anti-oxidant properties, excellent chemical composition and low melting point. High carbon ferromanganese is an excellent antioxidant with high carbon content and is heat resistant. It has desulphurizing and anti-oxidant properties that has applications in metallurgy, chemical industry and steel industry among others.

The ferro-alloys industry in India has a capacity of around 5.15 million tonnes and is accounted for nearly 10% of the world’s ferroalloys production. It is among 10 largest producers of the material in the world.
Growing demand from the steel industry for ferromanganese is anticipated to fuel growth of global ferromanganese market. Manganese improves the workability, tensile strength, toughness, resistance to abrasion and hardness. Hence, high demand is reported for ferromanganese from the steel industry. In addition, growing demand for ferromanganese from the welding industry is also one among the factors driving the growth of ferromanganese market. Increasing demand from the ally sector is also anticipated to contribute to the growth of global ferromanganese market.
Ferroalloys Industry

Indian Ferro-alloys Industry has immense potential and capability to compete in the international market. There is a need to encourage the Indian Ferro-alloys Industry for setting up captive power plants and also allocate coal linkages for the same. The prospects for the Ferro-alloys industry are bright provided innovations are made in the process technology & plant equipment design, and new cost-effective product mix is frequented at. India is expected to show strong growth in usage of steel in the coming years because of its robust economy, massive infrastructure needs and expansion of industrial production.
India produces 3.5 million tonne (mt) of ferro alloys and consumes around 2.3 mt. The country exported 1.3 mt of ferro alloys, earning a foreign exchange of around Rs 8,900 crore. India's production of around 3.5 mt of ferro alloys consists of one million tonne of ferro chrome (FeCr) and 2.5 mt of manganese alloys. However, demand is expected to increase by 5% in 2017 supported by growth in stainless steel. Globally, stainless steel is tipped to grow by 2.9% in 2017 driven mainly by growth in China and India. India is expected to show strong growth in usage of steel in the coming years because of its robust economy, massive infrastructure needs and expansion of industrial production. India is expected to become one of the leading steel consuming nations in the next decade. In this scenario, the Ferro Alloy Industry estimates that the consumption of Ferro-alloys will increase domestically and internationally in the coming years. Some of the Ferro Alloy Producers have already gone for expansion and some new units are coming up.
<table>
<thead>
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<th>Year</th>
<th>(In '000 Metric Tonne)</th>
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<td>1990-91</td>
<td>560</td>
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<tr>
<td>2000-01</td>
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<tr>
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<td>1845</td>
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<tr>
<td>2024-25</td>
<td>2445</td>
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</table>
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)

- Asia Pacific: 79.5%
- North America: XX.X
- Latin America: XX.X
- Europe: XX.X
- Middle East and Africa: XX.X

CAGR 5.9% (2017 – 2025)
Ferroalloy market application segment has been categorized into manufacturing of carbon steel, alloy steel, and stainless steel. Stainless steel accounted for a significant chunk of the global ferroalloy market and will witness a substantial growth at over 6% owing to the growth of its various end-user industries. Ferroalloys market will develop on the account of the product properties to enhance the characteristics of steels by the introduction of specific elements in desirable quantities in a technically and economically feasible way. They play major role in steel production and industrial development. The major users of alloy steel are the automotive industry, tubes, railways, springs, forgings, and various other engineering industries.
Machinery Photographs

Vibrating Feeder

Jaw Crusher
Magnetic Separator

Vibrating Screen
# Project at a Glance

## Project at a Glance

### COST OF PROJECT

<table>
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<tr>
<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
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<td>Preliminary &amp; Pre-operative Exp.</td>
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<td>Provision for Contingencies</td>
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### MEANS OF FINANCE

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<td>5-6</td>
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## Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Deposits Debt 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>Individua</td>
<td>Cumulative</td>
<td>Over-all</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
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<td>9.41%</td>
<td>6.45%</td>
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<td>0.78</td>
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<td>16.97%</td>
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<td>21.96%</td>
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<td>5-6</td>
<td>3.14</td>
<td>2.07</td>
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<td>0.21</td>
<td>23.08%</td>
<td>21.14%</td>
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## Project at a Glance

### BEP

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<th>Value</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>5.852</td>
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</tbody>
</table>
1. What is Low Carbon Ferromanganese Manufacturing industry?

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

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

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

6. What is the total project cost for setting up Low Carbon Ferromanganese Manufacturing Business?

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

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

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

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

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

14. What will be the income and expenditures for Low Carbon Ferromanganese Manufacturing Business?

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

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

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

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

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

22. What are the Project financials of Low Carbon Ferromanganese Manufacturing Business?
23. What are the Profitability Ratios of Low Carbon Ferromanganese Manufacturing Project?

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

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   1.1.4. Map
   1.1.5. Demographics
   1.1.6. Health (Medical)
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   1.1.8. Economy
   1.1.9. Transport

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4. **USES OF MANGANESE ORE**
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5. **IMPURITIES IN MANGANESE ORE**
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7.1. IS: 1171 – 2011 INDIAN STANDARD SPECIFICATION FOR FERROMANGANESE
7.2. IS: 4763 – 2006 SPECIFICATION FOR MANGANESE ORE FOR PRODUCTION OF FERRO MANGANESE
7.3. IS: 12596 – 1989 SPECIFICATION FOR MANGANESE ORE SINTERS FOR BLENDING FOR FERROMANGANESE PRODUCTION
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8. MARKET SURVEY
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10.6.4. Plant Capacity
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10.7.4. Forex Transaction
10.7.5. Growth in Assets & Liabilities
10.7.6. Growth in Income & Expenditure
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10.7.8. Liabilities
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10.7.10. Profitability Ratio
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16.4. PLANT CAPACITY
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16.6. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

17. PLANT AND MACHINERY DETAILS

18. AIR ENVIRONMENT – MITIGATION MEASURES
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21. PHOTOGRAPHS/IMAGES FOR REFERENCE
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- Total Cost of Sales
- Net Profit After Taxes
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  - Gross Working Capital
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- Resultant DER
- Resultant ROI
- Resultant BEP
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• 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 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.
**Scope of the Report**

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Low Carbon Ferromanganese.” provides an insight into Low Carbon Ferromanganese market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Low Carbon Ferromanganese project. The report assesses the market sizing and growth of the Indian Low Carbon Ferromanganese 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:

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• 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 Ferromanganese sector in India along with its business prospects. Through this report we have identified Low Carbon Ferromanganese project as a lucrative investment avenue.

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Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Low Carbon Ferromanganese Production.

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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 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.
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- We have two decades long experience in project consultancy and market research field
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- 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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