Production of Ferro Molybdenum. 

Opportunities in Ferromolybdenum, Ferroalloys Industry
**Introduction**

Ferromolybdenum is an alloy formed by combining iron and molybdenum. It is an extremely versatile alloy used primarily in high-strength low alloys and stainless steels. It has numerous beneficial properties and can be used even in cast irons, some high-speed tool steels, and superalloy applications. Adding ferromolybdenum to a material helps to improve weldability, corrosion and wear resistance as well to increase ferrite strength.
Applications

The largest application area of ferromolybdenum is in the manufacture of ferrous alloys. Based on the range of molybdenum content, ferromolybdenum can be applied in the manufacture of machine tools and equipment, military hardware, refinery tubing, load-bearing parts and rotary drills.

Ferromolybdenum is also used in cars, trucks, locomotives and ships. Ferromolybdenum is added to stainless and heat-resisting steels that are used in synthetic fuel and chemical plants, heat exchangers, power generators, oil-refining equipment, pumps, turbine tubing, ship propellers, plastics and inside acid storage containers.
Uses of Ferro Molybdenum

The largest practical applications of Ferro Molybdenum are its use in ferrous alloys, and depending on the molybdenum content range, it is suited for machine tools and equipment, military hardware, refinery tubing, load-bearing parts and rotary drills. Ferro Molybdenum is also used in cars, trucks, locomotives and ships. In addition, Ferro Molybdenum is used in stainless and heat-resisting steels that are employed by synthetic fuel and chemical plants, heat exchangers, power generators, oil-refining equipment, pumps, turbine tubing, ship propellers, plastics and inside acid storage containers. Tool steels, with a high percentage range of Ferro Molybdenum, are used in high-speed machining parts, cold work tools, drill bits, screwdrivers, dies, chisels, heavy castings, ball and rolling mills, rolls, cylinder blocks, piston rings and large drill bits.
Ferromolybdenum can be used in any melting process to add molybdenum to all types of iron and steel, and is supplied in a range of sizes for furnace or ladle addition. The recovery should be substantially 100% if used correctly. For optimum recoveries with ladle additions, ferromolybdenum should be added after the molten metal has covered the bottom of the ladle and before it is three quarters full.
Market Outlook

The demand for ferro-molybdenum is driven by stainless steel (316 stainless is the main molybdenum grade), as well as alloy steel production, and tube and pipe is a big market for ferro-molybdenum too. Molybdenum demand is heavily dependent on the worldwide steel industry, which comprises approximately 80% of molybdenum demand. Additionally, the increase in industrial activities, accompanied by the infrastructural expansion in countries, like China, India, and Indonesia, are expected to witness a growth in demand for steel, which is likely to drive the market for molybdenum during the forecast period.
A large portion of the global Ferro Molybdenum supply is manufactured in China, USA, Russia and Chile. The most basic definition of the Ferro Molybdenum production process would be that the Molybdenum is first mined and then transformed into Molybdenum (VI) Oxide MoO$_3$. That oxide is mixed with iron oxide and aluminium and then reduced in an aluminothermy reaction. Electron-beam melting then purifies the Ferro Molybdenum, or the product can be packaged as-is. Typically the resulting alloy will be produced as either small briquettes or as a finer powder. Ferro Molybdenum is usually supplied in either bags or steel drums for shipping.

The global molybdenum market is expected to witness a CAGR of 3.5% during the forecast period of 2018 - 2023.
Production of Ferro-Molybdenum in India

Production of Ferro-molybdenum in India

<table>
<thead>
<tr>
<th>Year</th>
<th>Production (In Tonne)</th>
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<tr>
<td>2000-2001</td>
<td>1881</td>
</tr>
<tr>
<td>2001-2002</td>
<td>2152</td>
</tr>
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<td>2006-2007</td>
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<td>2007-2008</td>
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<td>2112</td>
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<td>2822</td>
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<td>2015-2016</td>
<td>1459</td>
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<td>2016-2017 (P)</td>
<td>1603</td>
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Ferroalloys are generally known as the alloys of iron metal in which one or more chemical additives are added into molten iron for steelmaking. Ferroalloys serve important function in the overall process of steelmaking by enhancing the general properties of iron metal. Steel making is one of the primary consumer of ferro alloys and consumes a significant part of the total ferroalloys produced around the globe.
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)
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.
Growing steel demand in end-user industries including automotive, ship building, construction, and several other sectors will likely be an important driver for the global ferroalloy market. The product finds extensive application in the manufacturing of different grades of steel such as carbon steel, stainless steel, etc. Abundancy of iron ore and growing demand of different steel grades due to lack of viable substitutes will boost the industry growth in the coming years. Global steel industry production volume was estimated at over 1.5 billion tons in 2015, and will likely cross 2.5 billion tons by the end of 2024, growing at close to 5% CAGR. Increasing automobile production will augment the demand for different grades of steel, hence boosting the ferroalloy market demand.
Machinery Photographs

Chimney
## PROJECT AT A GLANCE

### COST OF PROJECT

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<tr>
<th>Particulars</th>
<th>Existing</th>
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<th>Total</th>
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### MEANS OF FINANCE

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<td><strong>TOTAL</strong></td>
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# Project at a Glance

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<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>Per Share</td>
<td>Per Share</td>
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## Project at a Glance

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<th>D. S. C. R.</th>
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<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<td>%</td>
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<td>%</td>
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<td>Over all</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>GPM</td>
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<td>%</td>
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## Project at a Glance

### BEP

<table>
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<th>Value</th>
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<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<td>Total BEP (% of Installed Capacity)</td>
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<td>IRR, PAYBACK and FACR</td>
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<td>Internal Rate of Return (%)</td>
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<td>Payback Period of the Project is (In Years)</td>
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<tr>
<td></td>
<td>Months</td>
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<td>Fixed Assets Coverage Ratio (No. of times)</td>
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1. What is Ferro Molybdenum Manufacturing industry?

2. How has the Ferro Molybdenum Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Ferro Molybdenum Manufacturing Plant?

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

6. What is the total project cost for setting up Ferromolybdenum Manufacturing Business?

7. What are the operating costs for setting up Ferromolybdenum Manufacturing plant?

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

10. What are the requirements of raw material for setting up Ferro Molybdenum Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Ferro Molybdenum Manufacturing Business?

12. What is the Manufacturing Process of Ferro Molybdenum?
13. What is the total size of land required for setting up Ferromolybdenum Manufacturing plant?

14. What will be the income and expenditures for Ferromolybdenum Manufacturing Business?

15. What are the Projected Balance Sheets of Ferro Molybdenum Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Ferro Molybdenum Manufacturing plant?

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

19. What is the Plant Layout for setting up Ferro Molybdenum Manufacturing Business?

20. What is the time required to break-even of Ferro Molybdenum Manufacturing Business?

21. What is the Break-Even Analysis of Ferro Molybdenum Manufacturing plant?

22. What are the Project financials of Ferro Molybdenum Manufacturing Business?
23. What are the Profitability Ratios of Ferro Molybdenum Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Ferro Molybdenum Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Ferro Molybdenum Manufacturing plant?

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

28. What is the Market Study and Assessment for setting up Ferro Molybdenum Manufacturing Business?
Table of Contents of the Project Report
1. PROJECT LOCATION
1.1. CITY PROFILE AND GEOTECHNICAL SITE CHARACTERIZATION
1.1.1. General
1.1.2. Physical Characteristics
1.1.3. Climate and Rainfall
1.1.4. Map
1.1.5. Economy and Industry
1.1.6. Transport

2. INTRODUCTION

3. USES & APPLICATION

4. PROPERTIES
4.1. PHYSICAL PROPERTIES
4.2. CHEMICAL ANALYSIS

5. B.I.S. SPECIFICATIONS
5.1. IS: 1469 – 1993: FERROMOLYBDENUM – SPECIFICATION
5.2. IS: 12614.1.1998: METHODS OF CHEMICAL ANALYSIS OF FERROMOLYBDENUM
5.3. IS: 42614.2.1988: METHODS OF CHEMICAL ANALYSIS OF FERRO-MOLYBDENUM
5.4. IS: 12614.3.1998: METHODS OF CHEMICAL ANALYSIS OF FERRO-MOLYBDENUM
5.5. IS: 12614.4.1998: METHODS OF CHEMICAL ANALYSIS OF FERRO-MOLYBDENUM
5.6. IS: 12614.5.1998: METHODS OF CHEMICAL ANALYSIS OF FERRO-MOLYBDENUM
5.7. IS: 12614.6.1998: METHODS OF CHEMICAL ANALYSIS OF FERRO-MOLYBDENUM
5.8. IS: 12614.7.1988: METHODS OF CHEMICAL ANALYSIS OF FERRO-MOLYBDENUM

6. MARKET SURVEY
6.1. BULK FERRO-ALLOYS
6.2. GLOBAL MOLYBDENUM MARKET
6.3. MOLYBDIC OXIDE, FERRO-MOLYBDENUM
6.4. INDIAN FERRO ALLOYS PRODUCERS' ASSOCIATION (IFAPA)

7. **EXPORT & IMPORT: ALL COUNTRIES**
7.1. EXPORT: ALL COUNTRIES FOR FERRO-MOLYBDENUM
7.2. IMPORT: ALL COUNTRIES FOR FERRO-MOLYBDENUM

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
8.6. SECTION – I
8.6.1. Name of Director(S)
8.6.2. Credit Ratings
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 Income & Expenditure
8.7.6. Income & Expenditure
8.7.7. Liabilities
8.7.8. Liquidity Ratios
8.7.9. Profitability Ratio
8.7.10. Profits
8.7.11. Return Ratios
8.7.12. Structure of Assets & Liabilities (%)
8.7.13. Working Capital & Turnover Ratios

9. COMPANY PROFILE OF MAJOR PLAYERS

10. EXPORT & IMPORT STATISTICS DATA OF INDIA

10.1. EXPORT STATISTICS DATA FOR FERRO MOLYBDENUM
10.2. IMPORT STATISTICS DATA FOR FERRO MOLYBDENUM

11. RAW MATERIAL DETAILS

11.1. FERRO MOLYBDENUM PRODUCTION PROCESS

12. MANUFACTURING PROCESS

12.1. WATER AND POWER REQUIREMENT

13. PROCESS FLOW DIAGRAM

14. WASTE GENERATION & MANAGEMENT

14.1. SOLID WASTE GENERATION AND MANAGEMENT
14.1.1. Hazardous Waste
14.1.2. Green Belt & Plantation
14.1.3. Project Schedule

15. SUPPLIERS OF PLANT & MACHINERY

16. SUPPLIERS OF RAW MATERIAL

17. PHOTOGRAPHS/IMAGES FOR REFERENCE

17.1. PRODUCT PHOTOGRAPHS
17.2. MACHINERY PHOTOGRAPHS
17.3. RAW MATERIAL PHOTOGRAPHS

18. PLANT LAYOUT
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building
- Factory Land & Building
- Site Development Expenses
- Plant & Machinery .......................................................... 5
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

- Other Fixed Assets .................................................. 6
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies

- Working Capital Requirement Per Month .................... 7
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
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Equity Capital
Preference Share Capital

www.entrepreneurindia.co

www.npcs
• 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
• Annexure 14 :: Product wise Domestic Sales Realisation

• 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
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• 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 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.
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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 Ferromolybdenum sector in India along with its business prospects. Through this report we have identified Ferro Molybdenum project as a lucrative investment avenue.
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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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