

# **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  $\text{MoO}_3$ . 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 (2000-2001 to 2016-2017)

Year	(In Tonne) Production
2000-2001	1881
2001-2002	2152
2002-2003	3114
2003-2004	2949
2004-2005	2864
2005-2006	2827
2006-2007	3120
2007-2008	2899
2008-2009	2112
2009-2010	2822
2010-2011	3090
2011-2012	4362
2012-2013	1076
2013-2014	1231
2014-2015	1295
2015-2016	1459
2016-2017 (P)	1603



***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 serves 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.***

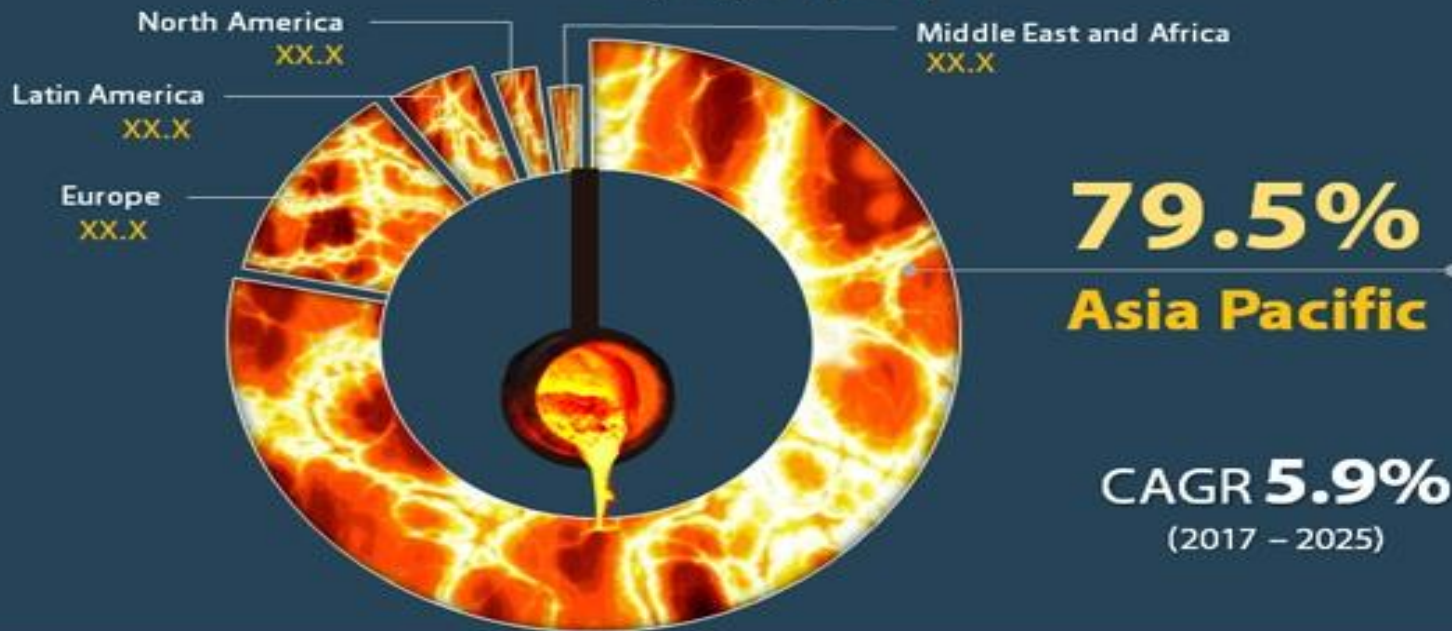


# Global Ferroalloys Market Share (%)



## Global Ferroalloys Market Share (%)

By Region (2017)



*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.*

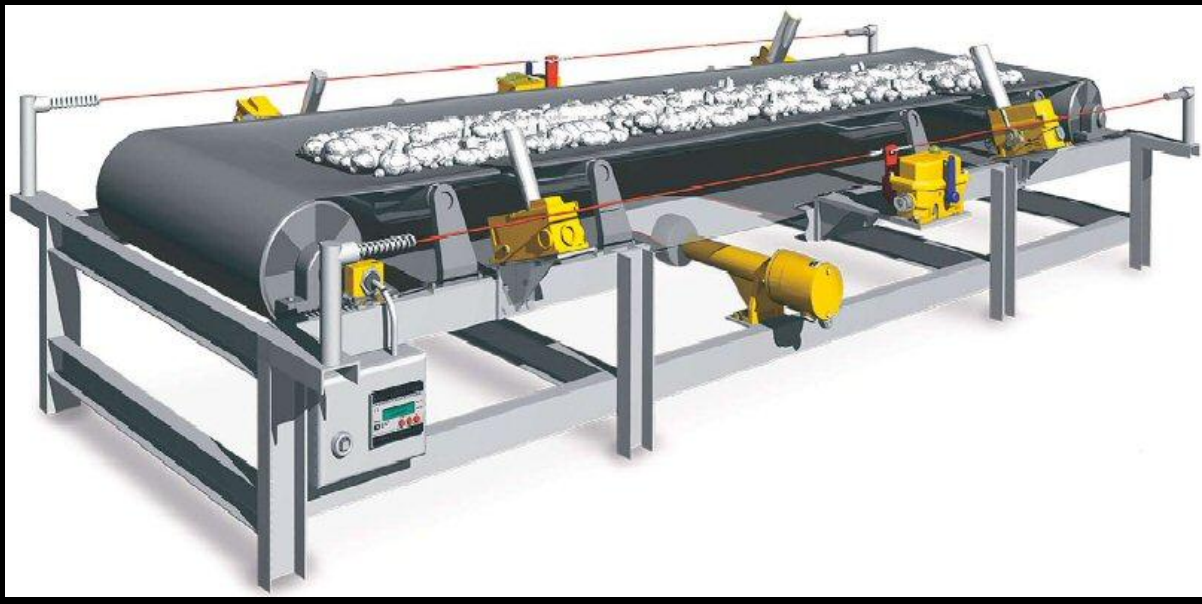
***Growing steel demand in end-user industries including automotive, ship building, construction, and several other sectors will likely be an important driver for the global ferroalloy market. The product finds extensive application in the manufacturing of different grades of steel such as carbon steel, stainless steel, etc. Abundance 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**



**Conveyor**



**Ball Mill**

# Project at a Glance

PROJECT AT A GLANCE				( in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	115.00	115.00	Capital	0.00	194.13	194.13
Buildings	0.00	126.00	126.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	135.00	135.00	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	50.00	50.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	35.00	35.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	582.38	582.38
Preliminary& Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	11.50	11.50	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	291.01	291.01				
TOTAL	0.00	776.51	776.51	TOTAL	0.00	776.51	776.51



# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`	s	%
1-2	6.01	8.30	16.01	24.00	0.00	100.00	6.01	0.00	6.01	1.00	0.00
2-3	9.27	11.28	25.28	18.00	0.00	100.00	9.27	0.00	9.27	1.00	0.00
3-4	12.72	14.49	38.00	12.00	0.00	100.00	12.72	0.00	12.72	1.00	0.00
4-5	16.11	17.68	54.11	6.00	0.00	100.00	16.11	0.00	16.11	1.00	0.00
5-6	19.40	20.80	73.51	0.00	0.00	100.00	19.40	0.00	19.40	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.25	1.25		1.50	1.50	8.21		2.71 %	1.20%	0.79%	1113.23	7.58 %	5.19	1.10
2-3	1.61	1.42		0.71	0.71	5.61		3.04 %	1.63%	1.05%	1298.66	7.58 %	5.33	1.13
3-4	2.08	1.62	2.08	0.32	0.32	4.04		3.27 %	1.98%	1.26%	1484.18	7.58 %	5.30	1.17
4-5	2.63	1.84		0.11	0.11	3.05		3.44 %	2.24%	1.42%	1669.70	7.58 %	5.20	1.22
5-6	3.29	2.08		0.00	0.00	2.40		3.57 %	2.43%	1.54%	1855.22	7.58 %	5.06	1.33



# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	66.44%
Total BEP (% of Installed Capacity)	67.90%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	31.06%
Payback Period of the Project is ( In Years )	2 Years 4 Months
Fixed Assets Coverage Ratio ( No. of times )	80.457

# Major Queries/Questions Answered in the Report?

- 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?**
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- **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**

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

# Tags

Ferro Molybdenum, Ferromolybdenum, Ferromolybdenum Production, Production of Ferromolybdenum, Process for Production of Ferromolybdenum, Ferromolybdenum Manufacturing Process, Ferroalloys Production, Ferro Molybdenum Production Process, Molybdenum Manufacture, Molybdenum and Ferromolybdenum Production, Ferro Molybdenum Manufacturing, Molybdenum Processing, How to Start Production of Ferroalloys, Process for Producing Ferromolybdenum, Ferro Molybdenum Manufacture in India, Ferro Molybdenum Uses, Project Report on Ferromolybdenum Manufacturing Industry, Detailed Project Report on Ferromolybdenum Manufacturing, Project Report on Ferromolybdenum Manufacturing, Pre-Investment Feasibility Study on Ferro Molybdenum Production, Techno-Economic feasibility study on Ferromolybdenum Manufacturing, Feasibility report on Ferromolybdenum Manufacturing, Free Project Profile on Ferro Molybdenum Production, Project profile on Ferro Molybdenum Production, Download free project profile on Ferro Molybdenum Production

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**Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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.**



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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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# **Contact us**

## **NIIR PROJECT CONSULTANCY SERVICES**

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



# 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*
- *Industry Trend*
- *Databases on CD-ROM*
- *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**

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