

Production of Low Carbon Ferro Chrome. Opportunities in Ferrochrome, Ferroalloys Industry



Introduction



Low Carbon Ferro Chrome offered comprise ferrochrome ortant chromium ore. It works as alloy of chromium & iron and comprises between 50% and 70% chromium content and provides usage as important iron niobium alloy with niobium content of 60-70%. Further, it is also used as main source for niobium alloying of HSLA steel.

Low carbon Ferro-alloys are used for DE oxidation of steels as well as for introduction of the alloying elements in the steel during the steel making process. By addition of



specialty ferroalloys during the production of steel, the properties (mechanical, joining etc.) of the steels are upgraded.

- Provides for wide usage in foundry and steel industry
- Made available with optimum chemical and physical properties
- Finding usage during steel production for correcting chrome percentage without causing undesirable variation in carbon/trace element percentage
- Also suitable as low cost alternative to metallic chrome for use in super alloys as well as other special melting



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 (MN's) 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 nonmagnetic stainless steel.



Market Outlook

Low Ferro chrome is an alloy of chromium & iron, it encloses 50% - 70% of chromium by weight. A ferrochrome manufacturing process is mostly conducted by the carbothermic reduction of chromite in an electric submerged arc furnace (SAF). In modern industries, one of the main ferrochrome uses is to produce stainless steel, as it imparts strength and durability. The global low ferrochrome market is growing significantly in the developing countries that are China, India, South Africa, Brazil and Indonesia, because of their large demand of stainless steel and other alloy steel in the construction industry. Low Ferrochrome market is increasing consolidated with several major ferrochrome producers leading the ferrochrome production globally. Meanwhile, the high production and rich reserves of metallurgical chromite and other raw materials in South Africa,

Global Ferrochrome Market, By Product

Global Ferrochrome Market, by Product



Zimbabwe, and Kazakhstan are also fuelling the ferrochrome market globally. At last, the increasing use of stainless steel around the world for various end-user industries, such as construction and automobile, is anticipated to be one of the major factors driving the global ferrochrome market forward throughout the forecast period.

Charge chrome and high carbon segment are expected to hold the largest ferrochrome market share during the forecast period. Charge chrome and high carbon ferrochrome provide boosted hardenability, temperature stability and corrosion resistance of stainless steel. The huge majority of FeCr produced is charge chrome from South Africa. With high carbon being the largest segment sectors of low carbon and intermediate carbon material. Stainless steel is dominating the global ferrochrome market. The use of chromium-grade and chromium manganese grade stainless steel in the construction and transportation industries is anticipated to have a huge positive impact on ferrochrome market.

Region-wise, the Asia Pacific region is presently the largest ferrochrome consumer, Europe and North America, owing to the fact that the Asia Pacific accounts for more than 70% of the global stainless steel production. The growing demand for stainless steel from the construction, transportation, and metallurgical industries in the Asia Pacific will be the main driver of the ferrochrome market growth over the upcoming year.

The slag processing plants help in the easy recovery of ferrochrome metal. The ferrochrome slag can be used as aggregate in construction industry. The growing environmental concerns about the proper ferrochrome waste slag is expected to foster market growth. The worldwide market for low Ferrochrome is expected to grow at a CAGR of roughly 10.1% over the next five years, will reach 21100 million US\$ in 2024, from 11900 million US\$ in 2019.

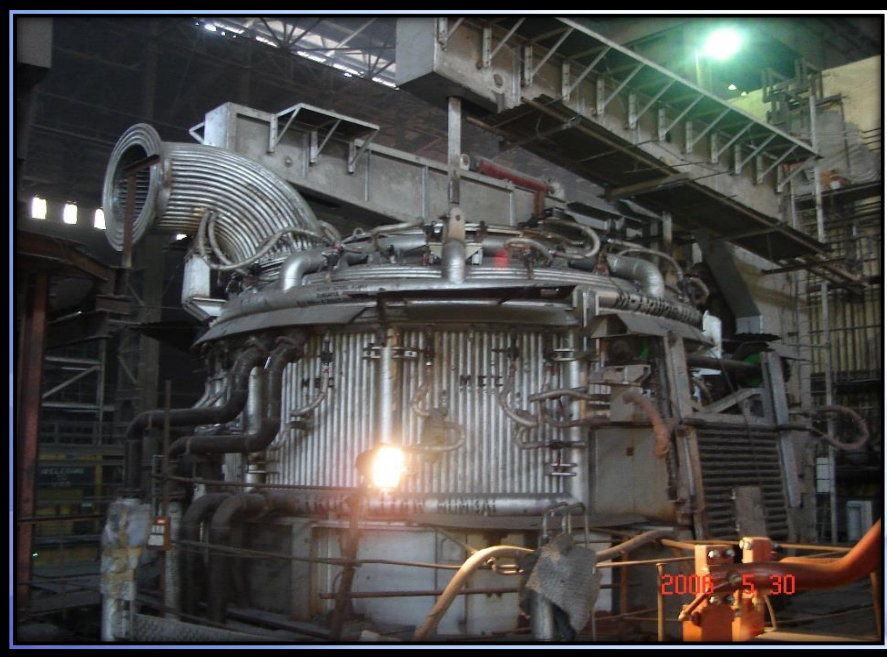


Key Players



Glencore-Merafe, Eurasian Resources Group, Samancor Chrome, Hernic Ferrochrome, IFM, FACOR, Mintal Group, Tata Steel, IMFA, Shanxi Jiang County Minmetal, Jilin Ferro Alloys, Ehui Group, Outokumpu, Samancor Chrome, Yildirim Group of Companies, Afarak, ENRC, GLENCORE, Tata Steel, Samancor, Hernic Ferrochrome, Fondel Corporation, Tharisa, Westbrook Resources, ICT Group, Sinosteel, Rohit Ferro Tech, Tennant Metallurgical Group, Ferro Alloys Corporation, ZIMASCO, ZimAlloys, Maranatha Ferrochrome, Olikon Ferroalloys, Vargon Alloys, Indsil, Harsco, Anjaney Ferro Alloys Ltd, Bansal Ferrous Ltd, Ferro Alloys Corpn. Ltd, Impex Ferro Tech Ltd, Jagat Alloys Pvt. Ltd, Acme Ferro Alloys Pvt. Ltd., Balasore Alloys Ltd, Indian Metals & Alloys Ltd, Indsil Hydro Power & Manganese Ltd.

Machinery Photographs



Submerged Arc Furnace



Vibrating Feeder



Jaw Crusher



Vibrating Screen

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	475.00	475.00	Capital	0.00	1000.32	1000.32
Buildings	0.00	1056.50	1056.50	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	1472.15	1472.15	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	581.00	581.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash			
Franchise & Other				Accruals	0.00	0.00	0.00
Deposits	0.00	0.00	0.00	Long/Medium Term			3000.96
Preliminary& Pre-operative Exp	0.00	3.50	3.50	Borrowings	0.00	3000.96	3000.96
Provision for Contingencies	0.00	145.00	145.00	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	203.13	203.13	Unsecured			
				Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	4001.28	4001.28	TOTAL	0.00	4001.28	4001.28

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	5.05	9.13	15.05	24.00	0.00	100.00	5.05	0.00	5.05	1.00	0.00
2-3	7.99	11.55	23.04	18.00	0.00	100.00	7.99	0.00	7.99	1.00	0.00
3-4	10.94	14.05	33.98	12.00	0.00	100.00	10.94	0.00	10.94	1.00	0.00
4-5	13.86	16.58	47.85	6.00	0.00	100.00	13.86	0.00	13.86	1.00	0.00
5-6	16.74	19.12	64.59	0.00	0.00	100.00	16.74	0.00	16.74	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Retur n on Net Worth	Profitability Ratio					Assets Turnov er Ratio	Curre nt Ratio
	Individ ual	Cumula tive	Overa ll					GPM	PBT	PAT	Net Contri bution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initi al				3.00	3.00									
1- 2	1.34	1.34		1.60	1.60	2.09		16.06 %	9.83%	7.01%	3610.23	50.14 %	1.56	0.94
2-3	1.64	1.48		0.78	0.78	1.16		19.09 %	14.40%	9.52%	4201.71	50.02 %	1.70	1.32
3-4	2.02	1.65	2.03	0.35	0.35	0.64		21.23 %	17.72%	11.40 %	4801.71	50.02 %	1.73	1.81
4-5	2.48	1.83		0.13	0.13	0.35		22.79 %	20.19%	12.84 %	5401.71	50.02 %	1.67	2.38
5-6	3.03	2.03		0.00	0.00	0.19		23.93 %	22.06%	13.96 %	6001.71	50.01 %	1.57	4.52

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	51.90%
Total BEP (% of Installed Capacity)	55.87%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	26.70%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	5.209

Major Queries/Questions Answered in the Report?

- 1. What is Low Carbon Ferro Chrome Manufacturing industry ?**
- 2. How has the Low Carbon Ferro Chrome Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Low Carbon Ferro Chrome Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Low Carbon Ferro Chrome Manufacturing plant ?**

5. What is the structure of the Low Carbon Ferro chrome Manufacturing Business and who are the key/major players ?

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

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

8. What are the machinery and equipment requirements for setting up Low Carbon Ferro chrome Manufacturing plant ?

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Low Carbon Ferro chrome Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Low Carbon Ferro chrome Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Low Carbon Ferro chrome Manufacturing Business?**
- 12. What is the Manufacturing Process of Low Carbon Ferro chrome ?**

13. What is the total size of land required for setting up Low Carbon Ferro chrome Manufacturing plant ?

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

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

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

Tags

#Production_of_Low_Carbon_Ferrochrome,
#Project_Report_on_High_Carbon_Ferro_Chrome, #Ferro_Alloy_Plant,
#Ferroalloys_Production, #Method_for_Manufacturing_Ferroalloys,
#Low_Carbon_Ferrochrome_Production_Process,
#Low_Carbon_Ferrochrome, #Low_Carbon_Ferrochrome_Manufacturing,
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Low Carbon Ferrochrome Manufacturing Process, Carbon Ferrochrome Manufacturing Plant, Processing of Low Carbon Ferrochrome, Production of Low Carbon Ferrochrome, Business Plan for Manufacturing of Low Carbon Ferrochrome, Business Ideas for Production of Low Carbon Ferrochrome, Low Carbon Ferrochrome Production Project, Production Plant for Low Carbon Ferrochrome, Low Carbon Ferrochrome Manufacture in India, Low Carbon Ferrochrome Manufacturing Unit, Small Scale Low Carbon Ferrochrome Manufacturing Business Ideas & Opportunities, Profitable Low Carbon Ferrochrome Manufacturing Business, Method of Making Low Carbon Ferrochrome, Low Carbon Ferrochrome Manufacturing Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Low Carbon Ferrochrome Manufacturing Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Low Carbon Ferrochrome Manufacturing Industry in India,

New Project Profile on Low Carbon Ferrochrome Manufacturing Industries,
Project Report on Low Carbon Ferrochrome Manufacturing Industry,
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Project Plan,

Production Plant of Low Carbon Ferrochrome, Low Carbon Ferrochrome Manufacturing Business, Production Process of Low Carbon Ferrochrome, Industrial Production of Low Carbon Ferrochrome, Low Carbon Ferrochrome Manufacturing Industry, Low Carbon Ferrochrome Manufacturing Project Report, Low Carbon Ferrochrome Production Method, Business Ideas for Manufacturing Low Carbon Ferrochrome, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Detailed Project Plan Reports, Low Carbon Ferrochrome Production Projects,



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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.

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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- **Project Costs and Payback Period**

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.

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 India along with its business prospects.....[Read more](http://www.entrepreneurindia.co)

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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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- *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

Contact us

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Thank You

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