

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.

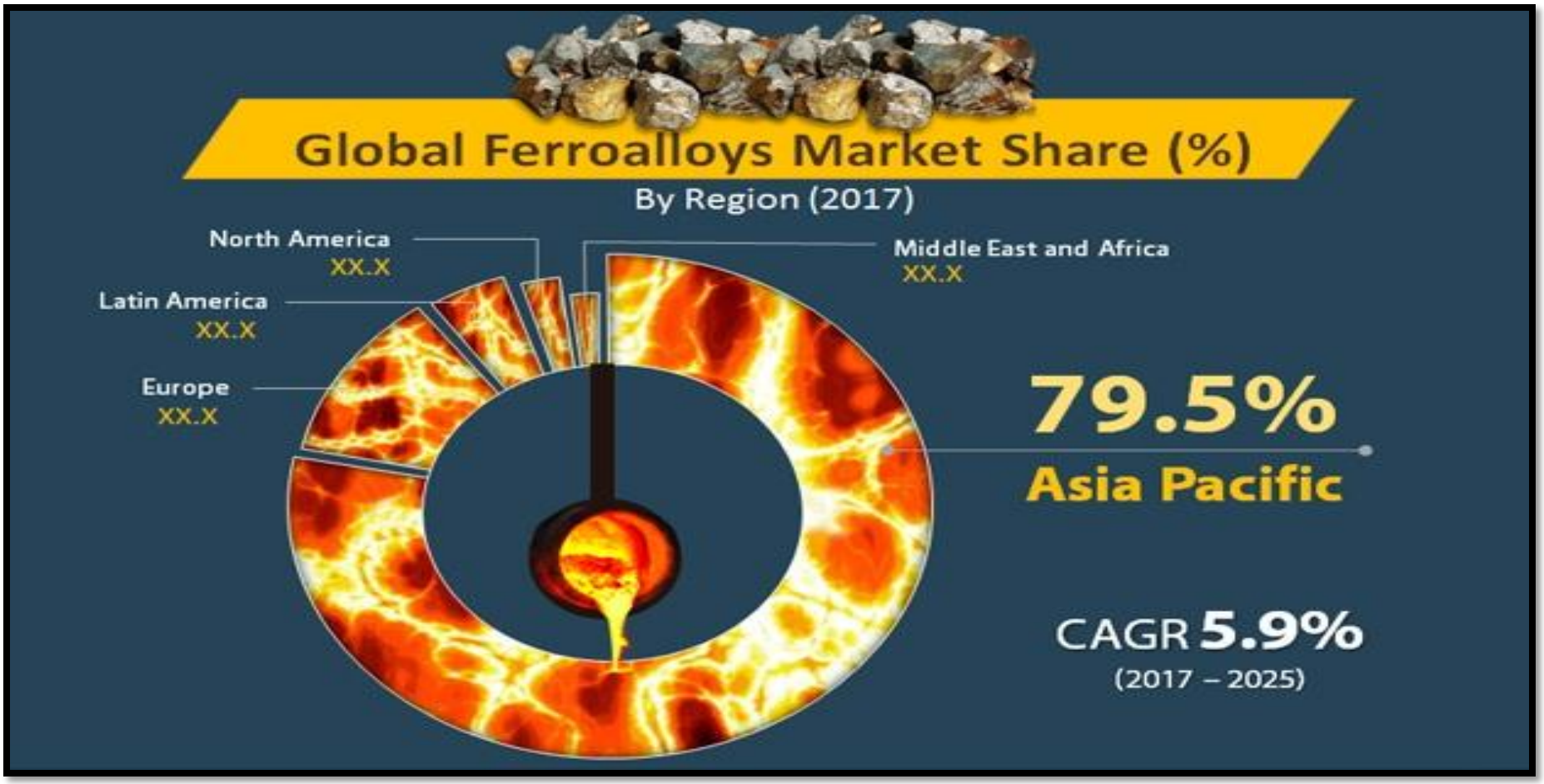
India is expected to show strong growth in usage of steel in the coming years because of its robust economy, massive infrastructure needs and expansion of industrial production. India is expected to become one of the leading steel consuming nations in the next decade. In this scenario, the Ferro Alloy 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.

Ferro Alloy

Demand : Past and Future	
Year	(In '000 Metric Tonne)
1990-91	560
2000-01	838
2001-02	682
2002-03	842
2003-04	932
2004-05	960
2005-06	989
2006-07	1023
2007-08	1059
2008-09	1101
2009-10	1151
2010-11	1203
2011-12	1263
2012-13	1325
2013-14	1390
2014-15	1435
2015-16	1540
2016-17	1600
2017-18	1675
2018-19	1785
2019-20	1845
2024-25	2445

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)



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							(` in lacs)
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	125.00	125.00	Capital	0.00	903.95	903.95
Buildings	0.00	1629.00	1629.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	904.00	904.00	Other Type Share 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	579.50	579.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	2711.84	2711.84
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	88.00	88.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	220.29	220.29				
TOTAL	0.00	3615.79	3615.79	TOTAL	0.00	3615.79	3615.79

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	
	`	`	`	`	`	%	`	%	`		%
1-2	5.01	9.15	15.01	24.00	0.00	100.00	5.01	0.00	5.01	1.00	0.00
2-3	8.13	11.78	23.13	18.00	0.00	100.00	8.13	0.00	8.13	1.00	0.00
3-4	11.24	14.46	34.37	12.00	0.00	100.00	11.24	0.00	11.24	1.00	0.00
4-5	14.30	17.15	48.67	6.00	0.00	100.00	14.30	0.00	14.30	1.00	0.00
5-6	17.31	19.83	65.98	0.00	0.00	100.00	17.31	0.00	17.31	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Asset s 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	1.34	1.34		1.60	1.60	2.17		15.41 %	9.41%	6.45%	3555.14	50.64 %	1.65	0.97
2-3	1.67	1.50		0.78	0.78	1.21		18.35 %	13.78%	8.97%	4084.88	49.88 %	1.79	1.34
3-4	2.07	1.67	2.07	0.35	0.35	0.67		20.44 %	16.97%	10.85 %	4666.94	49.86 %	1.81	1.80
4-5	2.56	1.87		0.12	0.12	0.38		21.96 %	19.34%	12.28 %	5249.00	49.85 %	1.74	2.35
5-6	3.14	2.07		0.00	0.00	0.21		23.08 %	21.14%	13.37 %	5831.06	49.84 %	1.63	4.25

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	53.50%
Total BEP (% of Installed Capacity)	57.41%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.74%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	5.852

Major Queries/Questions Answered in the Report?

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?

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

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?

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

26. What is the Process Flow Sheet Diagram of Low Carbon Ferromanganese Manufacturing project?

27. What are the Market Opportunities for setting up Low Carbon Ferromanganese Manufacturing plant?

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

29. What is the Plant Layout for setting up Low Carbon Ferromanganese Manufacturing Business?

Table of Contents of the Project Report

19.SUPPLIERS OF PLANT & MACHINERY

20.SUPPLIERS OF RAW MATERIAL

21.PHOTOGRAPHS/IMAGES FOR REFERENCE

21.1. PRODUCT PHOTOGRAPHS
21.2. MACHINERY PHOTOGRAPHS
21.3. RAW MATERIAL PHOTOGRAPHS

22.PLANT LAYOUT

Project Financials

- **Project at a Glance** **Annexure**

- **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

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 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:

- 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.

Tags

Low Carbon Ferromanganese, Manufacture of Low-Carbon Ferromanganese, Ferro Manganese Low Carbon, Ferro Manganese Manufacture, Low Carbon Ferro Manganese Manufacturing Process, Low Carbon Ferro Manganese Manufacture in India, Ferro Alloys Manufacturing, Manufacturing of Low Carbon Ferro Alloys, Low Carbon Ferromanganese Manufacturing Plant, Low Carbon Ferro Manganese (Medium Grade), Low Carbon Ferro Manganese Manufacture, Ferro Alloys, Production of Low-Carbon Ferromanganese, Project Report on Low Carbon Ferromanganese Manufacturing Industry, Detailed Project Report on Low Carbon Ferromanganese Manufacturing, Project Report on Low Carbon Ferromanganese Manufacturing, Pre-Investment Feasibility Study on Low Carbon Ferromanganese Manufacturing, Techno-Economic feasibility study on Low Carbon Ferromanganese Manufacturing, Feasibility report on Low Carbon Ferromanganese Manufacturing, Free Project Profile on Low Carbon Ferromanganese Manufacturing, Project profile on Low Carbon Ferromanganese Manufacturing, Download free project profile on Ferro Alloys Manufacturing, Production of Manganese Ferroalloys, Ferro Alloy Plant, Manganese Ferroalloys Industry, Manufacturing Process of Ferro Manganese, Opportunities in Ferroalloy Sector, Medium and Low Carbon Ferromanganese, Manufacturing Project of Low Carbon Ferromanganese, Ferro Manganese Industry in India

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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**

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

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- *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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