

# Production of Manganese from Electrolytic Process




*Manufacturing Industry, 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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis*



# Introduction


Manganese is a chemical element with symbol Mn and atomic number 25. It is not found as a free element in nature; it is often found in minerals in combination with iron. Manganese is a metal with important industrial metal alloy uses, particularly in stainless steels.

Manganese is a key component in the production of steel. Although classified as a minor metal, the quantity of manganese produced worldwide each year falls behind only iron, aluminium, copper and zinc.



Manganese is a very brittle, hard, pinkish-gray metal. It is a reactive metal, chemically active with water, air and most acids. It hardens and strengthens steel when alloyed with it.

Manganese metal produced from electrolytic process is called Electrolytic Manganese Metal (EMM). It is expensive. Its relatively high price limits the use of the metal mainly to production of some stainless steel, aluminium and copper alloys.



The trend in the aluminium industry has been towards a briquette containing about 75% manganese and 25% aluminium made from manganese and aluminium powder. The introduction of the electrolytic manganese of 99.98% purity completely free from impurities like phosphorous, carbon, etc. has opened up scope for the production of new series of stainless steel.



Manganese, a key ingredient for steel making, has been witnessing interesting price action lately. Prices rose briskly from \$1,500 per tonne to over \$2,000 in 2016, helped by low inventory, tighter supply due to mine closures and some pick-up in Chinese demand.



State-owned manganese producer MOIL increased the price of all grades of ore for the April-June 2016 quarter by up to 50 per cent. Manganese is of relevance to India as the country is the fifth largest producer globally. As a whole it is a good project for new entrepreneurs to invest.





## Market Outlook

The global market for manganese is projected to reach 28.2 million metric tons by 2022, driven by rising investment in infrastructure development projects, growing automobile production, and rapid urbanization in emerging markets.

# Few Indian Major Players are as under

- **Bharat Thermite Ltd.**
- **Corporate Ispat Alloys Ltd.**
- **MMP Industries Ltd.**
- **MOIL Ltd.**
- **Modern India Concast Ltd.**



# 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	638.25	638.25
Buildings	0.00	1056.50	1056.50	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	662.89	662.89	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	121.00	121.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	50.00	50.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	1914.75	1914.75
Preliminary & Pre-							
operative Exp	0.00	3.50	3.50	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	66.00	66.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	103.11	103.11				
TOTAL	0.00	2553.00	2553.00	TOTAL	0.00	2553.00	2553.00



# 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	6.11	9.74	16.11	24.00	0.00	100.00	6.11	0.00	6.11	1.00	0.00
2-3	8.81	12.00	24.92	18.00	0.00	100.00	8.81	0.00	8.81	1.00	0.00
3-4	11.50	14.30	36.42	12.00	0.00	100.00	11.50	0.00	11.50	1.00	0.00
4-5	14.14	16.61	50.56	6.00	0.00	100.00	14.14	0.00	14.14	1.00	0.00
5-6	16.72	18.90	67.28	0.00	0.00	100.00	16.72	0.00	16.72	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	1.40	1.40		1.49	1.49	2.03		17.64%	11.43%	7.74%	1780.61	35.33%	1.64	0.96	
2-3	1.70	1.54		0.72	0.72	1.13		19.49%	14.71%	9.56%	2072.86	35.25%	1.76	1.33	
3-4	2.05	1.70	2.05	0.33	0.33	0.65		20.76%	17.07%	10.92%	2368.88	35.25%	1.77	1.78	
4-5	2.48	1.87		0.12	0.12	0.37		21.65%	18.80%	%	11.94	2664.90	35.25%	1.72	2.28
5-6	3.00	2.05		0.00	0.00	0.21		22.26%	20.08%	%	12.70	2960.91	35.25%	1.62	4.01



# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	38.31%
Total BEP (% of Installed Capacity)	43.01%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	27.50%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	5.312

# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Manganese Production Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Manganese Production plant ?**
- 7. What are the operating costs for setting up a Manganese Production plant ?**
- 8. What are the machinery and equipment requirements for setting up a Manganese Production plant ?**

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up a Manganese Production plant ?**

**10. What are the requirements of raw material for setting up a Manganese Production plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up a Manganese Production plant ?**

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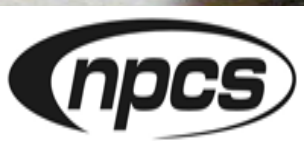
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# Reasons for buying our report:

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

Production of Manganese, Manganese Processing, Electrolytic Process for Preparing Manganese, Manganese from Electrolytic Process, How to Make Manganese, Manganese Processing Plant, Process of Manganese from Electrolytic Process, Process for Production of Manganese, Process for Manufacturing Manganese, Manganese Industry, Manganese Manufacturing Plant, Processing of Manganese, Production of Manganese in India, Methods for Manufacturing Manganese from Electrolytic Process, Process for Making Manganese from Electrolytic Process, Preparation of Manganese from Electrolytic Process, Method for Producing Manganese from Electrolytic Process, Production Process of Manganese from Electrolytic Process, Process for Manufacturing Manganese from Electrolytic Process, Manganese from Electrolytic Process Production Plants, Business Plan for Manufacturing Manganese from Electrolytic Process, Process for Preparing Manganese from Electrolytic Process, Production and Processing of Manganese from Electrolytic Process, Manufacture of Manganese from Electrolytic Process, Manganese Manufacture, Manganese Production Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Manganese from Electrolytic Process Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Manganese Production in India, Manganese Production Projects, New Project Profile on Manganese Production Industries, Project Report on Manganese Production Industry, Detailed Project Report on Manganese Production, Project Report on Manganese from Electrolytic Process,

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**Niir Project Consultancy Services (NPCS)  
can provide Detailed Project Report on  
Production of Manganese from  
Electrolytic Process**

Manufacturing Industry, 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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

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# ***NIIR PROJECT CONSULTANCY SERVICES***

**An ISO 9001:2008 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**

# Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

# Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*



# Sectors We Cover *Cont...*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

# Sectors We Cover *Cont...*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

# Sectors We Cover *Cont...*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

# Sectors We Cover *Cont...*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

# Sectors We Cover *Cont...*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

# Sectors We Cover *Cont...*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

# Contact us

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