Production of Ferrous and Non-Ferrous Metals and Metal Products.

Introduction

Ferrous Metals mostly contain Iron. Ferrous Metals are magnetic and give little resistance to corrosion. All ferrous metals contain some form of iron which make them magnetic in quality. Ferrous metals also include different types of steel. Stainless steel, mild steel, carbon steel, cast iron, and wrought iron are good examples.

Non-Ferrous Metals do not contain Iron, are not magnetic and are usually more resistant to corrosion than ferrous metals. Non-ferrous metals include metals like aluminium, copper, zinc and lead that find application in many industrial and infrastructural uses like real estate, automotive, defence, rail, power etc.

The demand for non-ferrous metals like aluminium and copper is likely to grow around 8 per cent over the next five years. The expected demand growth in the non-ferrous metals industry is even better than the healthy trend observed in the last five years, the demand for these metals is expected to grow by around 8 per cent in line with strong economic prospects, thrust on manufacturing sector, healthy growth in key end-use segments further aided by rising usage intensity.

In India, the demand for non-ferrous metals to a large extent is influenced by sectors including automotive and renewable energy. In the last five years, these end use sectors have grown at a healthy pace.

Non-ferrous metals are used as raw or subsidiary materials to make products in virtually all manufacturing segments. Their use has further expanded into high-tech electronic and IT industries in recent years. In particular, their consumption has sharply increased in developing countries where high economic growth continues, with new infrastructure being built alongside active industrial production.

Industry expected to post CAGR of 7% over 2015-2020 driven by increasing steel production in India and capacity additions in aluminium industry. Turnover of basic precious and non-ferrous metals rises by 8% driven by 16% growth of precious metals. In 2015, steel production value increases by 12% boosting demand for non-ferrous metals such as zinc and tin. Imports of precious metals rise by 27% to Rs740 billion in 2015 driven by increased imported volume of gold and silver.

Indian basic precious and non-ferrous metals market rises by 8.3% driven by increased demand for precious metals gold and silver.

Indian demand for non-ferrous metals is expected to grow at 8 per cent between 2016 and 2021. Non-ferrous metals include metals like aluminium, copper, zinc and lead that find application in many industrial and infrastructural uses like real estate, automotive, defence, rail, power etc.

The expected demand growth in the non-ferrous metals industry is even better than the healthy trend observed in the last five years, "Over 2016-17 to 2021-22, the demand for these metals is expected to grow by around 8 per cent in line with strong economic prospects, thrust on manufacturing sector, healthy growth in key end-use segments further aided by rising usage intensity.

Global non-ferrous metals market and is expected to reach 107 million metric tons by 2020. The growth in this region is attributed to the increasing consumption of non-ferrous metals in India, China, and Japan.

Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Required Project

Production of Ferrous and Non-Ferrous Metals and Metal Products.

Here are few Projects for Startups:

- **RECOVERY OF ZINC METAL FROM ZINC ASH**

Indian has an ancient and impressive heritage in zinc production and their usage. There was at one time a thriving lead and zinc industry in the state of Rajasthan. It remains the ancient zinc smelter, located near the modern unit of Hindustan zinc ltd., at debari, udaipur, are of great historical archeology.....Read more

➢ CAST IRON EARTH PIPES WITH FLANGES

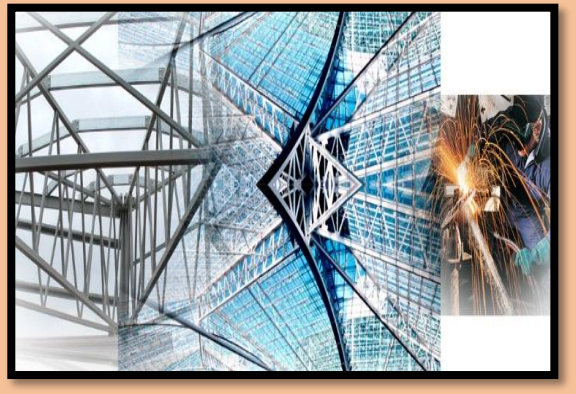
Most of the old Cast Iron pipes are cast vertically but this type has been largely superseded by spun iron type manufactured up to a diameter of 900 mm. Though the cast iron pipe has the disadvantages of heavy weight, and consequent high transport costs, short length, leading to higher laying and jointing cost, low tensile strength, liability to defect of inner surface, it is widely used because of its good lasting qualities.....Read more

➢ SPONGE IRON PLANT

Sponge iron is the product created when iron ore is reduced to metallic iron, usually with some kind of carbon (charcoal, etc.), at temperatures below the melting point of iron. This results in a spongy mass, sometimes called a bloom, consisting of a mix of incandescent wrought iron and slag. Sponge iron is not useful in itself, but must be processed to create wrought iron.....Read more

➢ STEEL FABRICATION UNIT

The importance of iron & steel among other materials is well known for industrialization and national economy. Metal fabrication is the group of entire processes employed to shape the metals into the desired form by melting & casting down to hot/cold working, joining by welding, brazing, soldering or riveting, belt-fastening & similar other processes.....Read more



➢ COPPER WIRE DRAWING, ANNEALING & ENAMELLING

Copper is the most used conducting metal. There is a good market for enameled copper wire in motors and transformers industries for winding and rewinding of motors & transformers. Wire is made by cold drawing hot rolled wire/rod through on more dies, to decrease its size and increase the physical properties.....Read more

➢ ALUMINIUM INGOTS FROM ALUMINIUM SCRAP

The 20th century has seen the emergence of aluminium as a key industrial and strategic material, second to only steel in terms of importance and tonnages of production. Beginning with an experimental production of 1.7 tonnes in 1859, the world production of primary aluminium has grown to about 16 million tonnes in the year 1983- recording in the produces the fastest rate of growth of consumption for any metal.....Read more

➢ PIG IRON

Pig Iron is a raw material for all the iron and steel based industries and hence, required to be responsive to the requirements of pig iron users. Pig iron as hot metal goes to the integrated steels making plant for refining and conversion into steel of various types to cater to the downstream industries like Hot Rolling Mills, Forging Plant, Extrusion Plant etc.....Read more

➢ COPPER POWDER

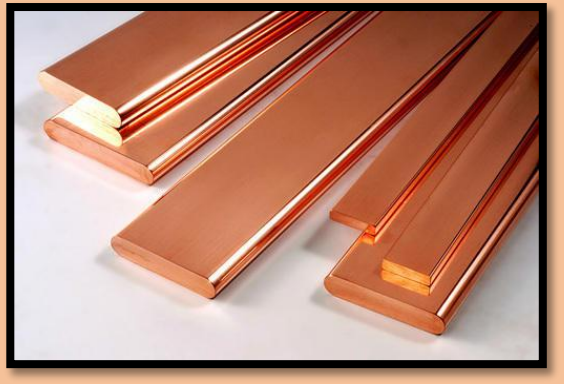
Copper powder is finely granulated copper that has many metallurgic functions. The powder is cheaper than regular cast copper, so engineers can save money on supplies, and it often helps conserve materials because less copper will be needed. Copper powder also can be made to have different densities if handled by a powder metallurgist, meaning the copper can be porous and impregnated with oils or other metals, or it can be non-porous like cast copper.....Read more

➢ STEEL BAR

Steel is said to be the back bone of any national economy. In India SAIL units in public sector and TISCO in private sector are the integrated steel plants producing primary steels, using ore as the input material. They cover around 50% of the total steel requirement. Rest of the 50% need is met by minimum steel plants, re-rollers, etc.....Read more

➢ COPPER FLATS AND COPPER TUBES

Copper is the most commonly used architectural metal now-a-days. Copper plays an essential role in the modern building. From recycled cladding and roofing systems, to high-tech plumbing and heating systems using the tube and fittings which are manufactured from recycled copper. Copper is a key component of many energy saving technologies.....Read more



➢ STAINLESS STEEL TUBES PIPES

Stainless Steel tubes are widely used in the dairy & food processing industries, heat exchangers, evaporators, cooling units, stock lives and condensers, such as those used in chemical digestive food liners, blow lines, evaporation pulp and paper industry, pharmaceutical industry production flow lines, aircraft tubing, hydraulic lines,.....Read more

Tags

Ferrous Materials and Non-Ferrous Metals And Alloys, Ferrous and Non-Ferrous Metal Production, Production of Non-Ferrous Metals, Non-Ferrous Metal Production, Non-Ferrous Metals Manufacturing, Non-Ferrous Metal Industry, Metal Manufacturing, Non-Ferrous Metal and Steel Production, Manufacture of Non-Ferrous Metal, Non-Ferrous Metals Processing Plant, Ferrous Metal Processing, Ferrous Metals Processing Industry, Ferrous and Non-Ferrous Metal Production Plant, Metal Production, How to Start Ferrous and Non-Ferrous Metal Processing Industry, Most Profitable Copper Production Business Ideas, Pig Iron Processing Projects, Small Scale Aluminium Manufacturing Projects, Starting a Non-Ferrous Metal Processing Business, How to Start a Ferrous and Non-Ferrous Metal Production Business, Ferrous Metals Based Small Scale Industries Projects, Recovery of Zinc Metal from Zinc Ash, Cast Iron Earth Pipes With Flanges, Sponge Iron Industry, Sponge Iron Plant, How to Start Steel Fabrication Unit, Profitable Business Ideas for Copper Wire Drawing, Annealing & Enamelling, Production of Aluminium Ingots from Aluminium Scrap, Process of Making Sponge Iron, Sponge Iron Manufacturing Process, Production of Pig Iron, Manufacturing Business of Pig Iron, Pig Iron Production Plant, Production of Copper Powder, Manufacturing Business of Copper Powder, Production of Steel Rods, Manufacturing Process of Steel Bars,

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For more Projects and further details, visit at:

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Major Queries/Questions Answered in Our Report?

1. How has the industry performed so far and how will it perform in the coming years?
2. What is the Project Feasibility of the Plant?
3. What are the requirements of Working Capital for setting up the plant?
4. What is the structure of the industry and who are the key/major players?

5. What is the total project cost for setting up the plant?
6. What are the operating costs for setting up the plant?
7. What are the machinery and equipment requirements for setting up the plant?
8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?
9. What are the requirements of raw material for setting up the plant?

10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?

11. What is the Manufacturing Process of the plant?

12. What is the total size of land required for setting up the plant?

13. What will be the income and expenditures for the plant?

14. What are the Projected Balance Sheets of the plant?

15. What are the requirement of utilities and overheads for setting up the plant?
16. What is the Built up Area Requirement and cost for setting up the plant?
17. What are the Personnel (Manpower) Requirements for setting up the plant?
18. What are Statistics of Import & Export for the Industry?
19. What is the time required to break-even?

20. What is the Break-Even Analysis of the plant?
21. What are the Project financials of the plant?
22. What are the Profitability Ratios of the plant?
23. What is the Sensitivity Analysis-Price/Volume of the plant?
24. What are the Projected Pay-Back Period and IRR of the plant?
25. What is the Process Flow Sheet Diagram of the plant?
26. What are the Market Opportunities for setting up the plant?
27. What is the Market Study and Assessment for setting up the plant?
28. What is the Plant Layout for setting up the plant?

Reasons for Buying Our Report:

- The 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
- The report provides vital information on the product like it's characteristics and segmentation
- The report helps you market and place the product correctly by identifying the target customer group of the product

- The 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

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Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....Read more

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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.

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**
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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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- *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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