Project Opportunities in production of Copper Ingots/Copper Ash from Copper Ore.

Copper Extraction, Copper Processing, Making Copper Ingots.
Introduction

Copper is an important non-ferrous metal used in various forms for different applications. Copper being a major industrial metal, ranks third after iron and aluminium in terms of quantity consumed. Copper is a reddish malleable and ductile metal valued for its excellent thermal and electrical conducting qualities and resistance to corrosion. Copper combines with a number of elements to form a wide variety of copper minerals and ores.
Copper ingots are generally required by the Non-ferrous casting units which are engaged in the casting of different engineering components of brass, gun metal, bronze etc., the agricultural machinery, automobile industries and railway components. These ingots are also required for manufacturing of rods, tubes, strips, wires etc. The copper ingots manufactured from copper scrap are generally known as commercial quality ingots & do not come under the group of electrolytic copper as these are secondary quality ingots.
Copper is one of the oldest metals ever used and has been one of the important materials in the development of civilization. Copper is an important non-ferrous base metal having wide industrial applications. Today it has become a major industrial metal, ranking 3rd after iron and aluminum in terms of quantities consumed.

Copper today is a 8 billion US dollar industry in India having created 50,000 direct and indirect jobs and growing at a CAGR 5-7% per annum. India has a huge growth potential in copper consumption for the next 20-25 years as the government increases focus on smart cities, rapid urbanization and investments in infrastructure.
India is expected to be the 6th largest copper market by 2020 with major consumption sectors being - Electrical, Transport and Telecommunications. It is a strategic sector where copper demands is and will be from smart cities, power, transmission and defence. Total global consumption for copper is 26.7 million MT out of which India contributes 4% of the total as of 2014. In India we saw the total consumption of copper at 1.16mn tons in 2014. Out of this wire rod copper consumption was at 695KT and tube and strips copper consumption at 433 KT in 2014.
Global demand for copper metal (produced from refined copper and recycled scrap) is projected to advance 4.2 percent per year through 2019 to 36.0 million metric tons, valued at $261 billion. Robust gains in building construction expenditures are expected to boost the use of copper wire, tube, and other mill products in applications such as building wire and plumbing. Increased infrastructure investment, particularly in developing countries, will further benefit copper suppliers as updates to national power grids drive the production of wire and cable. In addition, advances in global manufacturing output are expected to bolster the use of copper metal in transportation equipment, industrial machinery, domestic appliances, and other durable goods.
## Copper

### Demand: Past and Future

<table>
<thead>
<tr>
<th>Year</th>
<th>Demand (In '000 Metric Tonne)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990-91</td>
<td>135</td>
</tr>
<tr>
<td>2000-01</td>
<td>288</td>
</tr>
<tr>
<td>2001-02</td>
<td>315</td>
</tr>
<tr>
<td>2002-03</td>
<td>397</td>
</tr>
<tr>
<td>2003-04</td>
<td>415</td>
</tr>
<tr>
<td>2004-05</td>
<td>438</td>
</tr>
<tr>
<td>2005-06</td>
<td>486</td>
</tr>
<tr>
<td>2006-07</td>
<td>545</td>
</tr>
<tr>
<td>2007-08</td>
<td>616</td>
</tr>
<tr>
<td>2008-09</td>
<td>702</td>
</tr>
<tr>
<td>2009-10</td>
<td>810</td>
</tr>
<tr>
<td>2010-11</td>
<td>895</td>
</tr>
<tr>
<td>2011-12</td>
<td>970</td>
</tr>
<tr>
<td>2012-13</td>
<td>1035</td>
</tr>
<tr>
<td>2013-14</td>
<td>1110</td>
</tr>
<tr>
<td>2014-15</td>
<td>1185</td>
</tr>
<tr>
<td>2015-16</td>
<td>1260</td>
</tr>
<tr>
<td>2016-17</td>
<td>1375</td>
</tr>
<tr>
<td>2017-18</td>
<td>1450</td>
</tr>
<tr>
<td>2018-19</td>
<td>1590</td>
</tr>
<tr>
<td>2019-20</td>
<td>1725</td>
</tr>
<tr>
<td>2024-25</td>
<td>2560</td>
</tr>
</tbody>
</table>
Copper Production

India is a Net exporter of Refined Copper

www.entrepreneurindia.co
Copper Usage in India (Sector-wise)

- Building Construction: 37%
- Consumer Goods: 25%
- Transportation: 5%
- Industrial Equipments: 13%
- Electrical & Electronics Products: 20%
Copper and copper products are widely used in fields of electric power, electronic, energy and petro chemistry, machinery and metallurgy, transportation, light industry and emerging industry. It ranks the second in China’s non-ferrous metal consumption only second to aluminum.
## Top countries where Copper Ingots is exported from India

<table>
<thead>
<tr>
<th>Country</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>36.01</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>31.29</td>
</tr>
<tr>
<td>Netherlands</td>
<td>22.27</td>
</tr>
<tr>
<td>France</td>
<td>20.81</td>
</tr>
<tr>
<td>Japan</td>
<td>19.06</td>
</tr>
<tr>
<td>Thailand</td>
<td>17.14</td>
</tr>
<tr>
<td>Malaysia</td>
<td>17.07</td>
</tr>
<tr>
<td>Denmark</td>
<td>14.74</td>
</tr>
</tbody>
</table>
Cost Estimation of Project:

Capacity: 3000 MT / Annum

Plant and Machinery: 279 Lakhs

Rate of Return (ROR): 46%

Break Even Point (BEP): 45%

Cost of Project: 684 Lakhs
1. What is Copper Ingot/Copper Ash Manufacturing industry?

2. How has the Copper Ingot/Copper Ash Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Copper Ingot/Copper Ash Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Copper Ingot/Copper Ash Manufacturing plant?
5. What is the structure of the Copper Ingot/Copper Ash Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Copper Ingot/Copper Ash Manufacturing Business?

7. What are the operating costs for setting up Copper Ingot/Copper Ash Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Copper Ingot/Copper Ash Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Copper Ingot/Copper Ash Manufacturing plant?

10. What are the requirements of raw material for setting up Copper Ingot/Copper Ash Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Copper Ingot/Copper Ash Manufacturing Business?

12. What is the Manufacturing Process of Copper Ingot/Copper Ash?
13. What is the total size of land required for setting up Copper Ingot/Copper Ash Manufacturing plant?

14. What will be the income and expenditures for Copper Ingot/Copper Ash Manufacturing Business?

15. What are the Projected Balance Sheets of Copper Ingot/Copper Ash Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Copper Ingot/Copper Ash Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Copper Ingot/Copper Ash Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Copper Ingot/Copper Ash Manufacturing Business?

19. What are Statistics of Import & Export for Copper Ingot/Copper Ash?

20. What is the time required to break-even of Copper Ingot/Copper Ash Manufacturing Business?

21. What is the Break-Even Analysis of Copper Ingot/Copper Ash Manufacturing plant?

22. What are the Project financials of Copper Ingot/Copper Ash Manufacturing Business?
23. What are the Profitability Ratios of Copper Ingot/Copper Ash Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Copper Ingot/Copper Ash Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Copper Ingot/Copper Ash Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Copper Ingot/Copper Ash Manufacturing project?
27. What are the Market Opportunities for setting up Copper Ingot/Copper Ash Manufacturing plant?

28. What is the Market Study and Assessment for setting up Copper Ingot/Copper Ash Manufacturing Business?

29. What is the Plant Layout for setting up Copper Ingot/Copper Ash Manufacturing Business?
Table of Contents of the Project Report
1. PROJECT PROFILE

1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
  1.1.1. General
  1.1.2. Physical Characteristics
  1.1.3. Map
  1.1.4. Transportation and Communication
  1.1.5. Economy & Industry

2. INTRODUCTION

3. USES AND APPLICATION

4. PROPERTIES & CHARACTERISTICS

5. BIS SPECIFICATIONS

6. MARKET SURVEY

7. EXPORT & IMPORT: ALL COUNTRIES
8. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
8.2. PROFITS & APPROPRIATIONS
8.3. TOTAL LIABILITIES
8.4. TOTAL ASSETS
8.5. NET CASH FLOW FROM OPERATING ACTIVITIES
8.6. SECTION – I
8.6.1. Name of Company with Contact Details
8.6.2. Name of Director(S)
8.6.3. Plant Capacity
8.6.4. Location of Plant
8.6.5. Name of Raw Material (S) Consumed With Quantity & Cost
8.7. SECTION – II
8.7.1. Assets
8.7.2. Cash Flow
8.7.3. Cost as % Ge of Sales
8.7.4. Forex Transaction
8.7.5. Growth in Assets & Liabilities
8.7.6. Growth in Income & Expenditure
8.7.7. Income & Expenditure
8.7.8. Liabilities
8.7.9. Liquidity Ratios
8.7.10. Profitability Ratio
8.7.11. Profits
8.7.12. Return Ratios
8.7.13. Structure of Assets & Liabilities (%)
8.7.14. Working Capital & Turnover Ratios

9. EXPORT & IMPORT STATISTICS DATA OF INDIA

10. MANUFACTURING PROCESS

11. PROCESS FLOW DIAGRAM

12. SUPPLIERS OF PLANT & MACHINERY

13. SUPPLIERS OF RAW MATERIAL
14. PHOTOGRAPHS/IMAGES FOR REFERENCE

14.1. PRODUCT PHOTOGRAPHS
14.2. MACHINERY PHOTOGRAPHS
14.3. RAW MATERIAL PHOTOGRAPHS

15. PLANT LAYOUT
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Annexure

Factory Land & Building
Site Development Expenses
• Plant & Machinery
  Indigenous Machineries
  Other Machineries (Miscellaneous, Laboratory etc.)

• Other Fixed Assets
  Furniture & Fixtures
  Pre-operative and Preliminary Expenses
  Technical Knowhow
  Provision of Contingencies

• Working Capital Requirement Per Month
  Raw Material
  Packing Material
  Lab & ETP Chemical Cost
  Consumable Store
• Overheads Required Per Month and Per Annum..........................8
  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

• Salary and Wages .................................................................9

• Turnover Per Annum .............................................................10

• Share Capital ........................................................................11
  Equity Capital
  Preference Share Capital
• 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 its 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 Copper Ingot” provides an insight into Copper Ingot market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Copper Ingot project. The report assesses the market sizing and growth of the Indian Copper Ingot 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:

www.entrepreneurindia.co
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 Copper Ingot sector in India along with its business prospects. Through this report we have identified Copper Ingot project as a lucrative investment avenue.
Copper Ingot Manufacture, Copper Ingot Making Plant, Ingot Manufacturing, Copper Ingot Manufacturing Plant, Copper Ingot Production, Copper Ash from Copper Ore, Copper Ingot Production Plant, Production of Copper Ingots from Copper Ore, Making Copper Ingots from Scrap, Copper Ingot Production Process, Making Copper Ingots from Copper Ore, Copper Ingot / Copper Ash from Copper Ore Manufacturing Plant, How to Make Copper Ingots from Copper Ore? Copper Ingot Processing, Business Plan for Copper Industry, Copper Production Plant, Copper Ash Plant, Copper Ore to Copper Ingot Manufacturing Process, Copper Ash Manufacture, Copper Ingot from Copper Ash, Copper Ingot Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Copper Ingot Manufacturing Based Small Scale Industries Projects,
Project profile on small scale industries, How to Start Copper Ingot Manufacturing Industry in India, Copper Ingot Manufacturing Projects, New project profile on Copper Ingot Manufacturing industries, Project Report on Copper Ingot Manufacturing Industry, Detailed Project Report on Production of Copper Ingots from Copper Ore, Project Report on Production of Copper Ingots from Copper Ore, Pre-Investment Feasibility Study on Copper Ash Plant, Techno-Economic feasibility study on Production of Copper Ingots from Copper Ore, Feasibility report on Copper Ingot Manufacturing, Free Project Profile on Copper Ash Plant, Project profile on Production of Copper Ingots from Copper Ore, Download free project profile on Copper Ash Plant, Industrial Project Report, Project consultant, Project consultancy, NPCS, Niir, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients, Startup Project for Copper Ash Plant
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Project Opportunities in production of Copper Ingots/Copper Ash from Copper Ore. Copper Extraction, Copper Processing, Making Copper Ingots.

See more
https://goo.gl/8biJzV
https://goo.gl/jK246K
Visit us at
www.entrepreneurindia.co
Take a look at
Niir Project Consultancy Services
on #Street View
https://goo.gl/VstWkd

Locate us on
Google Maps
https://goo.gl/maps/BKkUtq9gevT2
Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

Click here to take a look
https://goo.gl/G3ICjV
Free Instant Online Project Identification and Selection Service

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
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
- 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
Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com, info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595
Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd
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

www.entrepreneurindia.co
Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com, info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website: www.entrepreneurindia.co, www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd
Follow us

- https://www.linkedin.com/company/niir-project-consultancy-services
- https://www.facebook.com/NIIR.ORG
- https://www.youtube.com/user/NIIRproject
- https://plus.google.com/+EntrepreneurIndiaNewDelhi
- https://twitter.com/npcs_in
- https://www.pinterest.com/npcsindia/
For more information, visit us at:

www.niir.org
www.entrepreneurindia.co