









[NPCS/5056/23345]

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# Copper Cathode Production from Copper Scrap



# **Introduction**

Copper is one of the basic chemical elements. In its nearly pure state, copper is a reddish-orange metal known for its high thermal and electrical conductivity. It is commonly used to produce a wide variety of products, including electrical wire, cooking pots and pans, pipes and tubes, automobile radiators, and many others. Copper is also used as a pigment and preservative for paper, paint, textiles, and wood. It is combined with zinc to produce brass and with tin to produce bronze.





Copper cathode is the primary raw material input for the production of copper rod for the wire and cable industry. The major uses of copper cathodes are in the manufacture of copper rods for the wire and cable industry and copper tubes for consumer durable goods. Copper cathodes are also used for making alloys like brass, bronze and alloy steel, with applications in transportation, electrical appliances and machinery, defence and construction.

Copper cathode is a form of copper that has a purity of 99.95%. In order to remove impurities from copper ore, it undergoes two processes, smelting and electrorefining. The resulting, nearly pure copper is an excellent conductor and is often used in electrical wiring.



# Uses

- i) It is in making electrical cables.
- ii) It is used in making coins.
- iii) It is used in making alloys like brass, German silver.
- iv) It is Rold Gold, constantan, bell metal etc.
- v) It is used in making utensils.
- vi) It is used in making scientific equipments like caloriemeter boilers etc.





As an excellent conductor of electricity and heat, copper cathode is often used to make copper wire. The pliable nature of copper makes it an excellent choice for electrical and audio wires, which must be thin and flexible. Aside from wire, copper cathode is also used to make copper cake, which ranges in thickness from thin foils to thick plates. Ingots of electro-refined copper may also be used to make alloys, such as bronze. Copper cathode is the primary raw material input for the production of copper rod for the wire and cable industry.





# **Market Outlook**

Copper cathode is a form of copper that exhibits purity of more than 95%. It is the primary raw material utilized in the production of copper rod, which is employed in several industries. Pure copper exhibits excellent electrical conductivity.





The copper cathode market can be segmented based on refining process type, application, and region. Copper cathode is produced through the refining process, which helps in the removal of impurities from copper ore. Based on refining process type, the copper cathode market can be segmented into smelting and electro-refining. Smelting is a type of refining process for extracting pure form of copper from its ore. It uses heat and chemical reducing agent for decomposition of copper ore, elimination of unwanted slag, and other elements for obtaining pure copper cathode. Electro-refining is a process, wherein copper ore is carried out in the presence of using aqueous solution for extracting pure form of copper cathode.



Electro-refining is a process that produces majority of copper cathode. Copper cathode is used in oil & gas, chemical labs, and various other industries. It is used in power generation, telecommunications, electronic circuits, power transmission, and various types of electrical equipment. Through electro-refining process, copper cathode is used in obtaining remaining impurities present in the copper ore. Impurities in copper ore consist of traces of gold, silver, nickel, and others.

The global Copper Cathode Market witnessed a growth in the anticipated period. Improved cathode sampling and analytical methods are essential to conform to the specification for manufacture and processing of copper cathodes.

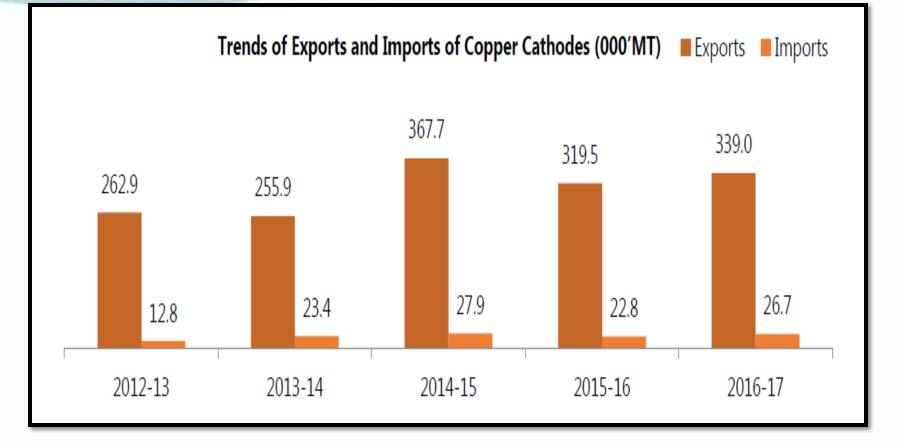


A significant approach in terms of better sampling plan is to enable collection of saw cuttings or cut sections from cathodes which is then melted and cast to gain adequate impurity illustration.

Driving factors for copper cathode market includes advancing of refining techniques and availability of high-grade cathode specifications coupled with stringent requirements for cast rod. Also, enhanced cathode sampling and analytical methods needed for confirmation specification compliance contributes to the market growth. Based on product segmentation for copper cathode market includes high quality level and standard quality level. Based on enduser, the copper cathode market includes conductor and electronic products.



# **India's Copper Cathodes Exports and Imports**





Geographically, Asia copper cathode industry is spread across China, India, Japan, Korea, Saudi Arabia and other regions. Various products types in Asia's copper cathode market are standard quality level and high quality level. Copper cathode is used in manufacturing of conductors, electronic products and in other industries.





# **Machinery Photographs**



### **ROTARY DE-COATER**

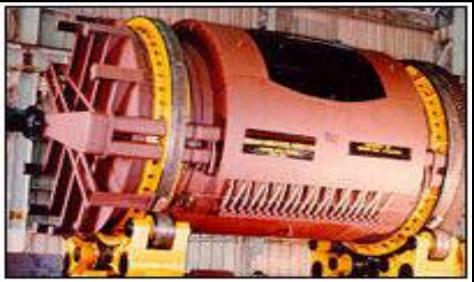


### ELECTRIC SHEARING SCRAP CUTTING MACHINE





# **ROTARY DE COATER**



# **COPPER CONVERTER**



PROJECT AT A GLANCE					Th	(USD in ousands)
COST O	F PROJE	СТ	MEAN	IS OF FINAN	NCE	

Particulars	Existing	Proposed	Total	Particulars	Existing	Propose d	Total
Land & Site Development							
Exp.	0.00	929.00	929.00	Capital	0.00	495.62	495.62
Buildings	0.00	571.00	571.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	200.10	200.10	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	10.00	10.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	73.50	73.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees							
& Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	1486.87	1486.87
Preliminary& Pre-operative							
Exp	0.00	4.00	4.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	17.50	17.50	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working							
Capital	0.00	152.40	152.40				
TOTAL	0.00	1982.50	1982.50	TOTAL	0.00	1982.50	1982.50



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Yea r	Annualised		Book Value	Debt	Divid end	Retained Earnings		Payo ut	Probab le Market Price	P/E Ratio	Yield Price/ Book Value
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1.62	1.46		0.68	0.68	1.59						17.03 %	2.72	1.18
1.98	1.62	1.97	0.31	0.31	1.02				5.71%		17.02 %	2.73	1.39
2.40	1.79		0.11	0.11	0.69				6.14%		17.02 %	2.66	1.63
2.92	1.97		0.00	0.00	0.49						17.02 %	2.54	2.21
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# BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	37.02%
Total BEP (% of Installed Capacity)	39.79%
IRR, PAYBACK and FACR	
Internal Rate of Return (In %age)	26.07%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	9.068



# **Major Queries/Questions Answered in the Report?**

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



5. What is the structure of the Copper Cathode Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Copper Cathode Manufacturing Business?
- 7. What are the operating costs for setting up Copper Cathode Manufacturing plant ?
- 8. What are the machinery and equipment requirements for setting up Copper Cathode Manufacturing plant ?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Copper Cathode Manufacturing plant ?

- **10.** What are the requirements of raw material for setting up Copper Cathode Manufacturing plant ?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Copper Cathode Manufacturing Business?
- 12. What is the Manufacturing Process of Copper Cathode?



13. What is the total size of land required for setting up Copper Cathode Manufacturing plant ?

14. What will be the income and expenditures for Copper Cathode Manufacturing Business?

**15. What are the Projected Balance Sheets of Copper Cathode Manufacturing plant ?** 

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

17. What is the Built up Area Requirement and cost for setting up Copper Cathode Manufacturing Business?



18. What are the Personnel (Manpower) Requirements for setting up Copper Cathode Manufacturing Business?

**19.** What are Statistics of Import & Export for Copper Cathode?

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

21.What is the Break-Even Analysis of Copper Cathode Manufacturing plant?

22.What are the Project financials of Copper Cathode Manufacturing Business?



- 23. What are the Profitability Ratios of Copper Cathode Manufacturing Project?
- 24. What is the Sensitivity Analysis-Price/Volume of Copper Cathode Manufacturing plant?
- 25. What are the Projected Pay-Back Period and IRR of Copper Cathode 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 Copper Cathode from Copper Scrap." provides an insight into Copper Cathode market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Copper Cathode project. The report assesses the market sizing and growth of the Indian Copper Cathode 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 Copper Cathode sector in India along with its business prospects. Through this report we have identified Copper Cathode project as a lucrative investment avenue.



#### Tags

Production of Copper Cathode, Copper Cathode, Copper Cathode Production from Copper Scrap, Copper Cathode Production, Copper Cathodes Manufacture, Copper Cathode Production Plant, Copper Industry, Copper Plant, Copper Cathode Market Industry, Copper Cathode Scrap, Recycling of Copper, Copper Scrap, Copper Wire Scrap, Copper Cathode from Copper Scrap, Copper Cathodes Manufacturing Process, Copper Cathodes Manufacturing Plant, Copper Cathode Factory, Copper Metal & Copper Cathodes, Small Scale Copper Cathode Plant, Manufacture of Copper Cathode, Copper Cathode Manufacturing and Processing Plant, Copper Cathode Manufacturing Plant in India, Detailed Project Report on Copper Cathode Production, Project Report on Copper Cathode Production, Pre-Investment Feasibility Study on Copper Cathode Production, Techno-Economic feasibility study on Copper Cathode Manufacturing, Feasibility report on Copper Cathode Manufacturing, Free Project Profile on Copper Cathode Production from Copper Scrap, Project profile on Copper Cathode Production from Copper Scrap, Download free project profile on Copper Cathode Production



# Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Copper Cathode Production from Copper Scrap

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#### **Reports:**

#### Detailed Project Reports

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:

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- 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......<u>Read more</u>



## **Contact us**

#### **NIIR PROJECT CONSULTANCY SERVICES**

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: <u>npcs.ei@gmail.com</u> , <u>info@entrepreneurindia.co</u>

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

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : <u>www.entrepreneurindia.co</u> , <u>www.niir.org</u>

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** 



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