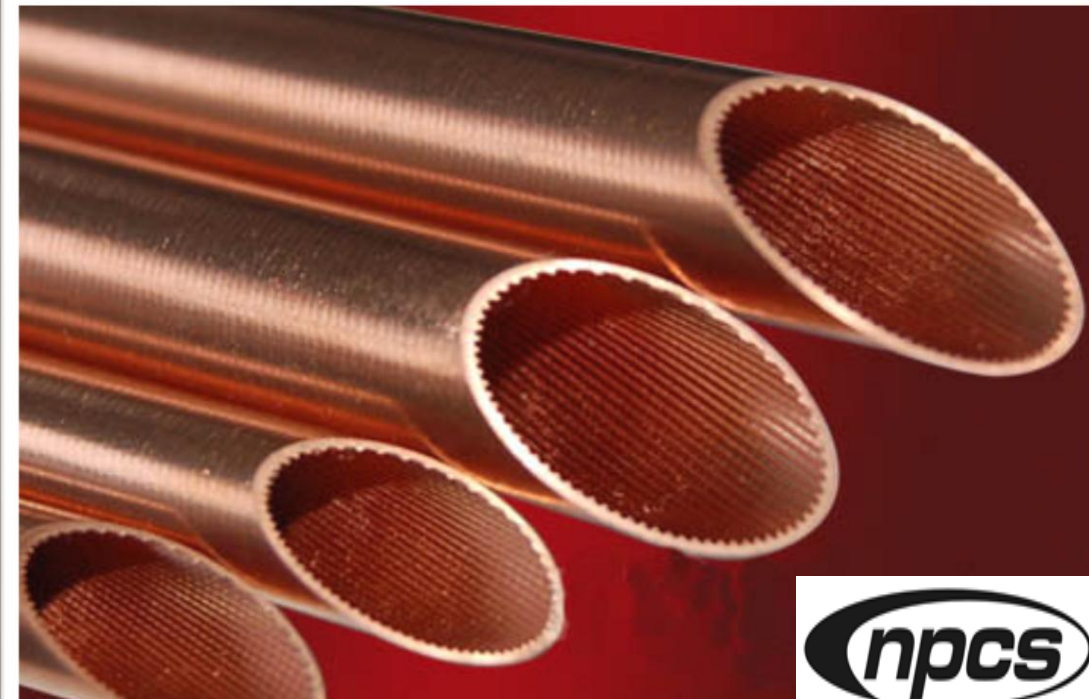


# Projects on Copper and Copper Products

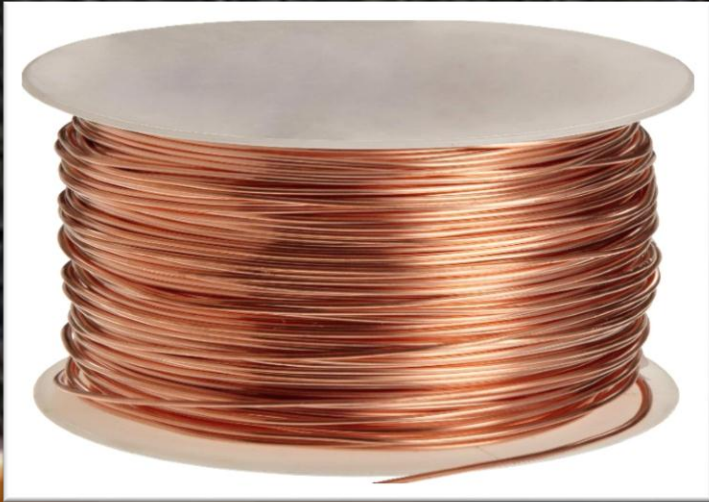
(Inner Grooved Copper Tube, Copper Ingot / Copper Ash from Copper Ore, Copper Wire Drawing, Power Cable, Copper Powder by Electrolytic Process, Copper Rod Casting, Wire Drawing and Enamelling, Copper Melting and Copper Ingot Rolling with Copper Wire Drawing, Copper Sulphate from Metallic Scrap Copper, Copper Ash, Enameled Copper Wire)



# **Introduction**

**Copper (Cu), chemical element, a reddish, extremely ductile metal of Group 11 (Ib) of the periodic table that is an unusually good conductor of electricity and heat. Copper is found in the free metallic state in nature. This native copper was first used (c. 8000 bce) as a substitute for stone by Neolithic (New Stone Age) humans. Metallurgy dawned in Mesopotamia as copper was cast to shape in molds (c. 4000 bce), was reduced to metal from ores with fire and charcoal, and was intentionally alloyed with tin as bronze (c. 3500 bce).**





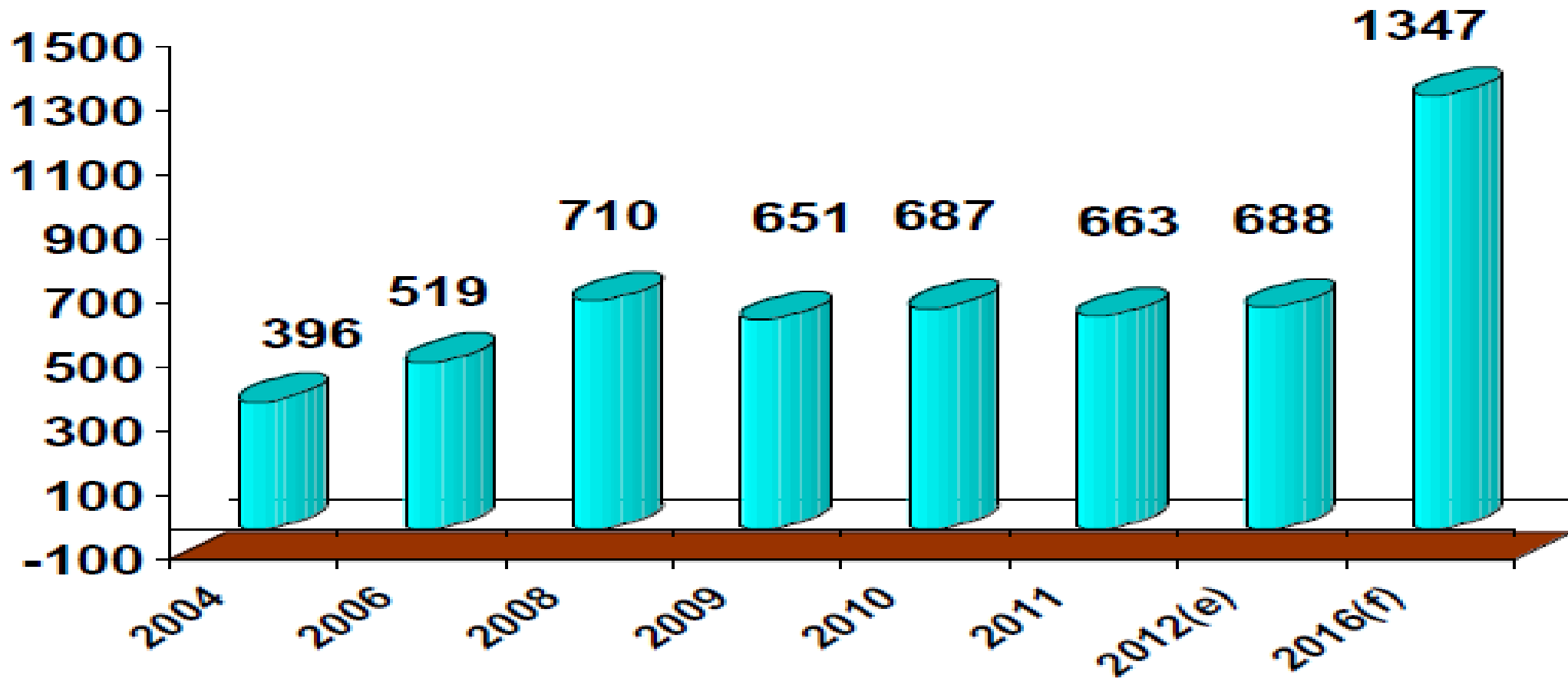


## **Market Outlook**

**Copper is one of the most widely used metals in India and its usage is next only to steel and aluminium in volume terms. India is a major importer of copper ore and concentrates and is a net exporter of refined copper. The country has limited reserves of copper ore and the reserves are mainly located in Rajasthan, Madhya Pradesh and Jharkhand.**

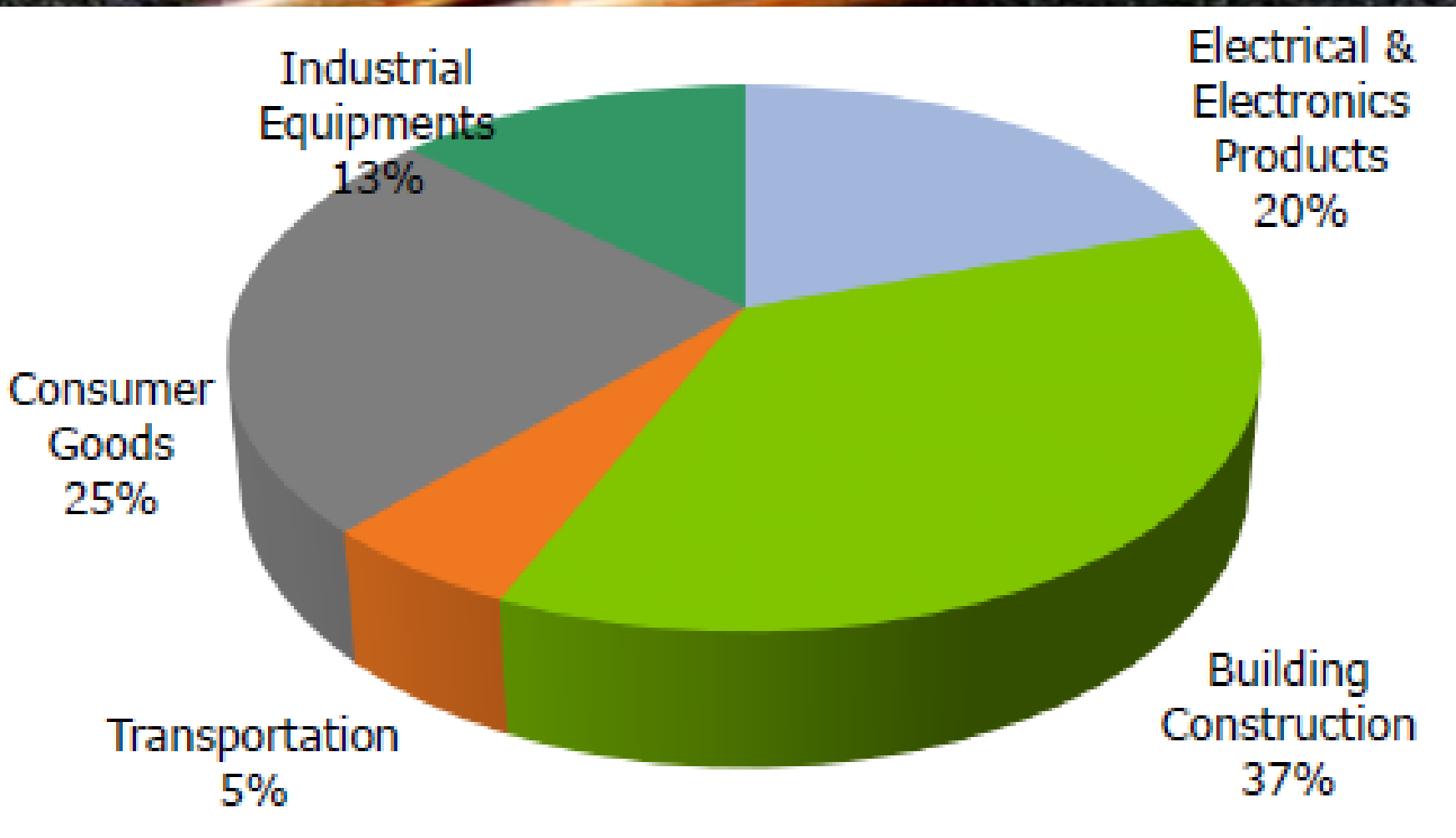
# Copper Production

'000 tonnes



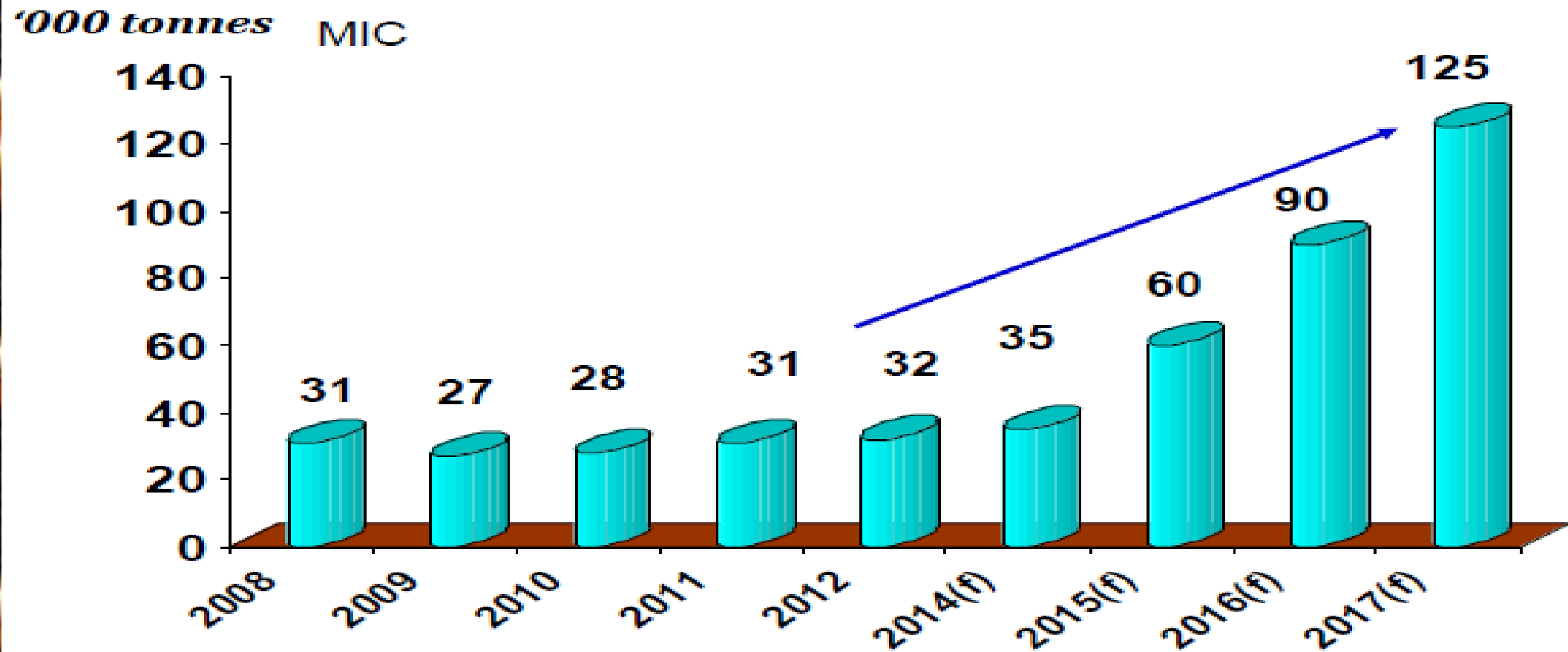
*India is a Net exporter of Refined Copper*

## Copper Usage in India (Sector-wise)





# Copper Production- Mines



## Copper Industry Balance

Supply & Demand balance (kt)	2014	2015E	2016F	2017F	2018F	2019F	2020F
<b>Mine production</b>	<b>18,649</b>	<b>19,065</b>	<b>19,119</b>	<b>20,347</b>	<b>20,867</b>	<b>21,321</b>	<b>21,415</b>
Growth	2.6%	2.2%	0.3%	6.4%	2.6%	2.2%	0.4%
<b>Refined production</b>	<b>21,882</b>	<b>22,027</b>	<b>22,428</b>	<b>23,108</b>	<b>23,458</b>	<b>23,866</b>	<b>24,104</b>
Growth	5.3%	0.7%	1.8%	3.0%	1.5%	1.7%	1.0%
<b>Refined use</b>	<b>21,500</b>	<b>21,540</b>	<b>22,111</b>	<b>22,660</b>	<b>23,254</b>	<b>23,813</b>	<b>24,338</b>
Growth	3.5%	0.2%	2.7%	2.5%	2.6%	2.4%	2.0%
<b>Balance</b>	<b>382</b>	<b>487</b>	<b>316</b>	<b>447</b>	<b>204</b>	<b>52</b>	<b>-234</b>



**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.**


**Global copper mine production is expected to rise 3.7 percent per year to 22.6 million metric tons in 2019.**

**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.**



**Copper ore becomes high grade copper concentrate after dressing; through smelting, copper concentrate becomes refined copper and copper products. Copper applied in industries can be mainly classified into electrolytic copper (copper content: 99.9%~99.95%) and refined copper (copper content: 99.0%~99.7%).**





**Demand for electrolytic copper is daily increasing, which promote the production capacity and output volume of electrolytic copper.**

**The global copper sulphate market is currently being driven by a continuously increasing global population and an ever-growing demand for food.**



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

# Copper and Copper Products

## ➤ **Inner Grooved Copper Tube**

**Ongoing rise of Air Conditioners and Refrigerators in the market and production in GCC and other part of the world and Heat Transfer Systems in engineering industries and automobile sectors all over the world, makes Copper tubes an essential and unmatched engineering material as Copper possesses superior heat transfer properties with excellent corrosion resistant. Seamless Copper Tubes meeting the specification requirements of ASTM B68, ASTM B280 and JIS H3300 for ACR applications are in a commanding and challenging position in the market.....[Read more](#)**



## ➤ **Copper Ingot / Copper Ash from Copper Ore**

**Copper is the perfect material for recycling. It is valuable, easy to identify, easy to clean, heavy and can be much use to foundries & other non-ferrous industries as scrap. It has many important alloys e.g. bronze and brass. Copper being very versatile metal, it encompasses a very wide field of applications which comprise electric wiring, switches, plumbing, heating, roofing and building construction, chemical and pharmaceutical machinery etc.....[Read more](#)**

## ➤ **Copper Wire Drawing (From Higher Size to Very Thin Size Used in Electrical Cables)**

**Copper wire is an essential material for electrical cables, motor and transformer winding. It is available in different gauges. The gauge of the copper wire depends upon the winding required for the specific motor or transformer. On the basis of high conductivity, strength and ductility, copper wires are adopted as the best known economical material for such purposes.....[Read more](#)**



## ➤ **Power Cable**

**Electrical power cables used for transmission and distribution purposes consist of conductors stranded from plain high conductivity annealed copper wires insulated with oil impregnated paper tapes. Underground construction is necessitated in the more density built up portions of cities by the heavy transformers and lines required and by the multiplication of service connections to buildings....[Read more](#)**

## ➤ **Copper Powder by Electrolytic Process**

**The principal methods for producing copper powder is electrolytic deposition at high current densities and the atomization of molten metal. Copper powder is also formed by cementation or by pressured precipitation from aqueous solutions, but such precipitates are of little commercial interest....[Read more](#)**



## ➤ **Copper Rod Casting, Wire Drawing and Enamelling**

**Copper wire is an essential material for electrical cables, motors and transformer winding. Copper wire is available in different gauges. The gauge of the copper wire depends upon the winding required for the specific motor or transformer. There is huge demand of copper wire in electrical industry such as in motor and transformer manufacturing and rewinding....[Read more](#)**

## ➤ **Copper Melting and Copper Ingot Rolling with Copper Wire Drawing**

**Copper is mankind's oldest metal, dating back some 10,000 years. All of the great civilizations of the past used copper and copper alloys (principally bronze and later brass) for both decorative and utilitarian purposes. Copper was used for military purposes, artistic applications such as church bells and statuary, tools and numerous other functional objects....[Read more](#)**



## ➤ **Copper Sulphate from Metallic Scrap Copper**

**Copper is one of the most widespread materials used in the production of electronic equipment and found in multiple appliances as, e.g. circuit boards. Copper recycling has lately become more important due to the depletion of the earth copper resources and thus the increased price for raw material. The development of recycling processes is an important issue to effectively utilize the copper resources, minimize the adverse effects of hazardous materials and protect our environment....[Read more](#)**

## ➤ **Copper Sulphate from Copper Scrap, Copper Ash, Industrial Waste Containing Copper Content**

**Copper Sulphate is blue crystalline granule or powdery white when dehydrated and has a nauseous metallic taste. It is manufactured by the reaction of dilute sulphuric acid on the copper scrap, copper waste in presence of oxygen. It is used in agriculture, leather industry, electric batteries, ore floatation etc. There is about 3% growth rate per annum....[Read more](#)**



## ➤ **Enameled Copper Wire**

**Enameled wire is an insulated wire used in winding of armatures in transformers, switch gears and other electrical equipments. When connected to the main supply a magnetic field is developed around the enameled wire coil and it helps to the conversion of electrical energy into mechanical energy as case of motors. With the industrial development and power generation its demand is growing very fast....[Read more](#)**

**For more details visit at:**

**Copper and Copper Products**

**The Complete Book on Non-Ferrous and  
Precious Metals with Electroplating Chemicals**



# 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 and Formulations 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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# Contact us

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**Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)**

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# **NIIR PROJECT CONSULTANCY SERVICES**

**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*



## What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *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*



- *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*

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



- *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.*

- *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.*



- *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*

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



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