

PURE 99.99%
COPPER CATHODES
GRADE 'A'
ETPOXYGEN FREE
PHOSPHORISED

High Conductivity Copper
The Metal of Civilization



BUS BARS | COMPONENTS | SECTIONS | EARTHING TAPE | EARTH RODS

CITIZEN METALLOYS LTD.





Citizen Metalloys is a leading manufacturer of world class copper products made of copper and copper alloys. As a company with deep expertise we have always offered ground-breaking technologies, service concepts and solutions tailored to the market and true Indian quality. CML offer Copper Bus Bars, Rods, Components, Sections, Earthing Tape & Pure Copper Earth Rods covering every part for electrical transmission and distribution, power generators and electronics applications. We are able to achieve an Electrical Conductivity of 101% IACS and Oxygen content less than 5PPM.



CITIZEN
METALLOYS LTD.

Citizen Metalloys Ltd. aims to produce the finest quality for electrical transmission and distribution, power generators and electronics applications. To be a major supplier to the international market and to be the market leader in India. Consistently meeting the customer's quality, delivery, support and value expectations.

35  countries

1000+  customers



WORK SPACE



*ISO 9001:2008 &
ISO 14001:2004 certified*
(Environment Management System)

BS OHSAS 18001:2007
(Occupational Health & Safety Management)

*GOVT. RECOGNIZED
EXPORT HOUSE*



INFRASTRUCTURE

Size: **6360 sq. mt.**

Capacity: **3000 Tonnes** per Annum

*FULLY EQUIPPED WITH
SAFETY EQUIPMENTS*



Product areas



COPPER BUS BARS

CML is a leading manufacturer of Copper Bus Bars. Our production range encompasses a wide spectrum of sizes. We offer flat bars with sharp & round edges as well as full radius. As an experience and reliable with fully integrated production, CML has long been keeping pace with changes in the market. The latest trends involve additional alloying as well as Oxygen Free Copper - and we're involved in those thing too.

Use:

- Switchgear construction (low and medium voltage)
- Power distribution systems (busbars)
- Transformers/Electrical components
- Electrical Machine Construction
- Wind Power
- Automotives

Width: 10mm to 250mm | Thickness: 2.5mm and above

Features of CML product:

- Higher Conductivity for better current carrying capacity
- Excellent dimensional control for superior contacts
- Engineered for longer life
- Customer Specification Solution
- Crack Free Bends



TIN PLATED COPPER BUS BAR



COPPER PROFILES / SECTIONS

Besides our wide range of products and years of experience gained in tooling & product development, we also develop various type of profiles or sections as per our customer requirements.

As exact sample or a perfect / detailed drawing gives our engineer and development department proper idea to develop the required profile or sections.

Applications (Industry Use):

- Automobiles and Railways
- Wide range of uses in Electrical Industry like Switchgears, Panels etc.
- Electrical Holders & Clamps
- Defense Industry
- Power Industries
e.g. Wind Mill Power, Thermal Power, Hydro Power



Product areas



We are one of the leading copper components manufacturers in India. Our Copper Components provides a speedy, convenient and economical solution for Electrical Panel Board Industry, Switchgear Industry, Transformer Manufacturing, Bushing Manufacturing, Thermal Power, Wind Power Industry, etc. We offer customized copper components by means of the required drawings or as per forging, forming samples.

- Punching ■ Cutting ■ Plating ■ Bending ■ Sleeving ■ Turning
- Tapping ■ Twisting ■ Coating ■ Milling ■ Drilling ■ Stud Fixing

Customer Benefits:

- Ready to Use
- Reduce Inventory Cost
- Saving of Material
- Reduction in Process Time



Product areas



FLEXIBLE CONNECTORS

We have specialized production process and expertise in the field enable us to manufacturing highly copper laminated flexible and copper braided flexible connectors.

Braided Flexible Connectors

Our braided flexible connectors are extremely flexible and individually designed and made as per customer's requirement by our specialized compression technology which guarantees extreme compressing and minimal contact resistance. The contact is made with seamless solder less pressed high conductivity electrolytic grade copper.



Flexible Insulated Busbars

It consists of several layers of uncoated or tinned copper strips and are insulated with flexible high quality PVC Sleeve.



COPPER RODS

We offer a wide range of rods, which are used for connectors, Electric Motor Components, Electroplating, Switchgear, Ship Building, Power Generating Equipment and Forging.

Sizes: Diameter 5mm to 115mm available



COPPER ANODES

Copper Anodes include Oxygen-Free & Phosphorous copper anodes. They are made from electrolytically-refined copper cathodes and are used to ensure low sludge development, stable copper content in plating & rapid build-up of adherent film to allow problem free startup of new bath & low build-up of impurities in bath.

Size: As per Customer Requirements

Product areas



BARE COPPER TAPE

High conductivity electrolytic bare copper tape are widely applicable for Earthing Switch, Terminals, Electrical Conductors etc.

Size: Width 10mm to 50mm | Thickness 2.5mm & above



SOLID COPPER EARTH RODS

CML Solid Copper Earth Rods are made in three types; Internal Threaded, External Threaded & Taper Point. Solid Copper Earth Rods are used where the factor of corrosion is very high and exceptionally long life is required. Hence these rods are manufactured from pure and high conductivity hard drawn copper as per BS 2841 C - 101.

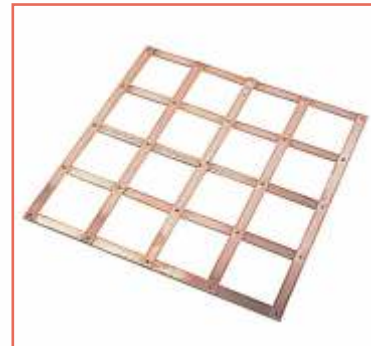
Sizes: Diameter 12mm to 25mm available



COPPER EARTH PLATES

Pure copper plates provides a long lasting earthing solution in places where driving earth rods might be impractical. They are often installed in conjunction with low resistance earthing compound.

Size: As per Customer Requirements



COPPER EARTH LATTICE

Solid Copper Earth Lattice mats with copper rivet offer a more economical cost option to installing solid copper plates. They are a preferred option on installations such as Telecommunication towers, where touch and step potential could cause problems.

Size: As per Customer Requirements

Quality Assurance



- **RAW MATERIAL:** Pure copper cathodes grade 'A' London Metal Exchange Registered Brand with copper purity of 99.99%.
- **STANDARDS:** IS, BS, ASTM, EN, JIS, AS/NZS and DIN as required by customer specifications.
- **GRADES:** Oxygen Free / ETP / Phosphorised

TEST FACILITIES

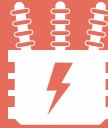
- 1) Oxygen Analyzer (LECO, USA)
- 2) Spectrometer for testing of Chemical Properties (GNR, ITALY)
- 3) Tensile Testing Machine
- 4) Hardness Tester
- 5) Conductivity Meter
- 6) Resistivity Meter
- 7) Tin Coating Thickness Meter



Product Applications



GENERATORS



POWER TRANSFORMER



ELECTRICAL



AUTOMOBILES



RAILWAYS



REACTORS



WINDMILLS



DEFENCE



PANEL BOARD



TELECOMMUNICATION

AWARDS & CERTIFICATIONS



**STAR PERFORMER
FOR HIGHEST EXPORT
2011-2012 EEPIC INDIA**



**STAR PERFORMER
FOR HIGHEST EXPORT
2012-2013 EEPIC INDIA**



**STAR PERFORMER
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2013-2014 EEPIC INDIA**



GLOBAL PRESENCE



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 Bahrain
 Trinidad & Tobago
 Malta
 Congo
 South Korea

Sri Lanka
 Bangladesh
 Nigeria
 Pakistan
 Kenya
 Oman
 Ghana
 Nepal
 Thailand
 Jordan
 Canada
 Indonesia
 Saudi Arabia
 Mauritius
 Israel
 Uganda
 Benin

OUR VALUED CUSTOMER



LARSEN & TOUBRO



DMRC





CITIZEN METALLOYS LTD.

Registered Office:

808, Sukh Sagar Complex, Nr. Hotel Fortune Landmark,
Usmanpura, Ashram Road, Ahmedabad - 380 013, Gujarat, INDIA.
Phone: +91 79 27550272, +91 79 32911675
Fax: +91 79 27550240
e-mail: info@citizenmetalloys.com

Works:

Plot No. 3314, GIDC Estate, Phase-IV,
Nr. Ambica Weighbridge, Chhatral - 382 729,
Taluka: Kalol, Dist: Gandhinagar, Gujarat, INDIA.
Tel: +91 2764 233006 / 232206
Fax: +91 2764 234005

www.citizenmetalloys.com

