

March 2026

Cover Story

Copper & New Copper Alloys: Powering India's Green Industrial Future

Switching from a conventional petrol car to a Battery Electric Vehicle (BEV) doesn't just increase copper usage slightly—it **multiplies it by nearly 5 times**. While a standard vehicle uses around 8–16 kg of copper, a single electric vehicle requires roughly **71 kg**.

As India aggressively charges toward an electrified, net-zero future, our green technology sector is growing at an explosive 32% year-on-year. According to Niti Aayog, this trajectory will skyrocket cumulative demand to a staggering 66 million tonnes of copper by 2070.

But behind these soaring numbers lies a massive, multi-billion-dollar paradox that could threaten India's energy sovereignty:

The 0 KT Paradox: Inside every single EV battery is an ultra-thin, highly technical copper foil acting as the anode current collector. India is projected to need 105 KT of this foil annually by 2030. Currently, India's domestic manufacturing capacity for it is exactly 0 KT.

The Import Drain: We are currently importing nearly all our specialized copper semi-fabricates and advanced alloys—sending billions of dollars in manufacturing value straight overseas.

The Capital & Tech Barrier: Setting up a local supply chain requires high-tech electrodeposition expertise and an intense \$30,000 USD capex per tonne of production capacity.

The blueprint for India's next five decades of industrial growth is being rewritten right now, forcing a critical choice between total import dependency or building a massive, PLI-backed domestic copper ecosystem. Dive into the raw data, the structural challenges, and the policy shifts required to power India's green economy before the market shifts.

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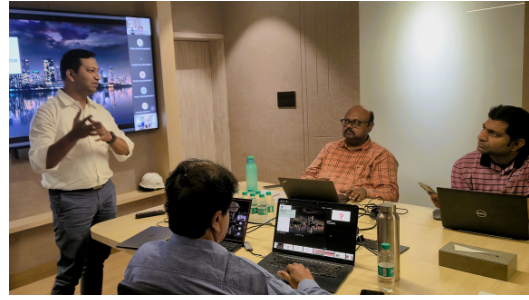
ICA India Events



ICA India attended ACREX 2026 to Join the discussion about Copper Tube based heat exchanger solutions

12-14 March 2026 | Mumbai

ICA India representatives participated in the discussion about copper tube heat exchangers being the only option for next-gen room ACs; which comply with revised energy efficiency norms and green refrigerants (mainly R32).



Collaboration With Prestige Group About Future-Ready Building Electrical System

27 February 2026 | Mumbai

A discussion about the role of copper in India's Net-Zero vision ensued in a discussion with the project management division of the Prestige group, the third largest developer in India.



Interaction With 50 Stakeholders About High-Reliability Distribution Transformer Design

10 March 2026 | Chandigarh

At workshop organized by Indian Electrical and Electronic Manufacturer Association, ICA India Improve copper's perception as best material amongst utility and OEM decision-makers for DT design, loss reduction, and refurbishment.



ICA India was Invited to Visit CRI's New Cable Plant

18 March, 2026 | Coimbatore

ICA India was invited to visit CRI, a major producer of pumps & winding wires, and also explore opportunities to become part of ICA – led cable makers alliance in India.

ICA India Events



ICA India and CPCB, India Jointly Convened a Session a Session on Extended Producer Responsibility (EPR)

27 March 2026 | Delhi

The session focussed on copper's role in circular economy and highlighted infinite recyclability and end-of-life salvage value; which makes it an essential material across various end-use products.