

April 2023

## Cover Story

### Copper Usage in India is back to Pre-Covid Period in FY22



Higher focus of the Government on policies & reforms such as Make in India, PLI schemes, 24x7 power for all, clean energy transition and climate action will boost copper demand.

Propelled by strong policy reforms across sectors, the post-pandemic demand for copper is back on growth track in FY22 (April 2021 to Mar 2022), registering a YoY growth of over 27.5% in India.

ICA India's annual research provides granular insights on copper demand & supply.

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## Announcement

### Hon'ble Minister Shri Piyush Goyal released the revised NATIONAL ELECTRICAL CODE OF INDIA- 2023 published by BIS

Electrical installations require adequate planning right from concept stage to layout and designing, selection of proper equipment, their installation and maintenance. It is obligatory that the Electrical installation shall be carried out in accordance with the Electric Supply Regulations 2010 where it specifies to follow National Electrical Code for electrical installations.

The NEC 2023 provides guidelines concerning safety and quality of the wiring in electrical installations of buildings or industrial structures promoting compatibility with the equipment installed. Over the years, there have been updates in the technology and new practices that are being followed. Also, there have been tremendous socio-economic changes, leading to change in the pattern of the usage of electricity.

Technical experts from all concerned section of the society including from ICAI have worked to bring out this NEC to maintain its relevance in the present context taking into account the technological advances taken place. The Code is divided into eight parts, which are further divided into multiple sections.

This code covers all kind of electrical installations including SPV and EV charging. NEC is expected to be useful for construction agencies, building professionals like architects; electrical engineers and consultants; electrical equipment manufacturers and suppliers; research institutions for their research purposes; and faculty and students of academic institutions for imparting technical education.

Copy of NEC 2023 is available for free download from the BIS sales portal.

[Free Download of NEC 2023](#)

## In Focus

### Copper provides an avenue for safe, efficient, and reliable EV charging

#### Copper in Electric Vehicles

84% India's imports of crude oil needs | 14% Co2 emissions by transport sector

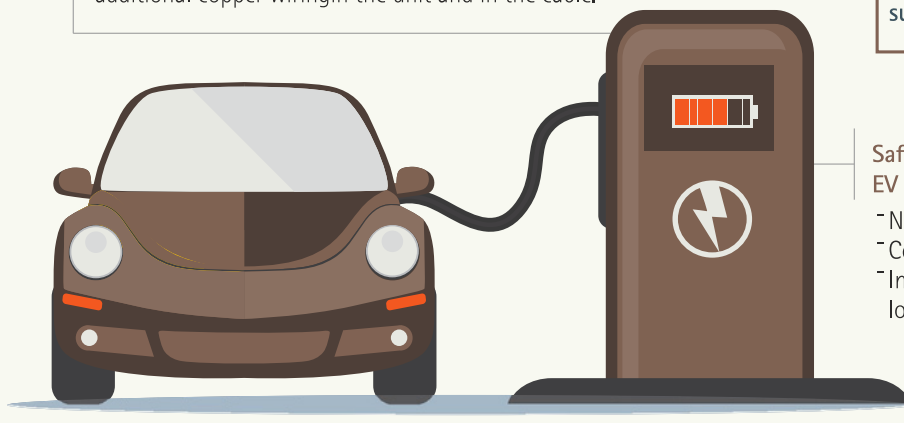
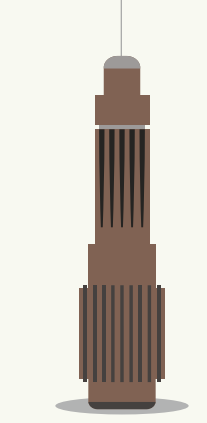
83kg.

Copper required in a battery powered electric car

Decarbonisation of the automobile sector is critical to meeting India's target for net-zero emissions

Copper is used in three EV charging equipment components: the charging unit, charging cable and wiring to an electrical panel. The main source of copper in EV charging equipment is the charging cable in four wires - three for power and one for communications. DC fast chargers have additional copper wiring in the unit and in the cable.

Copper cables tend to need much less cross-section than aluminium cables due to copper's higher current density and lower resistance to heat, making them best suited for fast charging.



Safe, efficient, and reliable EV chargers – copper provides an edge

- Natural electrical conductivity & durability
- Corrosion resistance
- Infinite recyclability, without any loss of performance

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## Media Spotlight

### Mayur Karmarkar, MD, ICAI talks about surging copper demand in India



**ET** THE ECONOMIC TIMES

#### Copper demand back on growth track in FY22

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#### India's Copper demand grew by 27%

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**businessline.**

#### Copper demand exceeds pre-Covid levels, up 27.5% in FY22

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### Fire safety over cost: India's path to sustainable growth

*Economic Times | Realty*

Strict adherence to building codes and use of fire-retardant material must to safeguard lives.

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