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International Copper  
Association India  
Copper Alliance



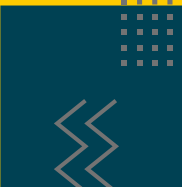
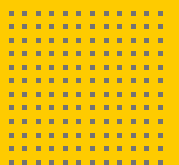
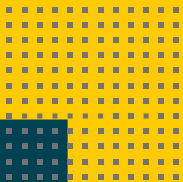
## Report on National Campaign on


# “Electrical Safety at Residential, Commercial & Public Buildings”

[Hyderabad, Mumbai, Chennai, Kochi, **Kolkata** and Delhi]



19<sup>th</sup> November 2022 | Kolkata



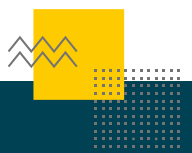


Our 5<sup>th</sup> Technical cum interactive session on Electrical Safety at Residential, Commercial & Public Buildings was officially held in **Kolkata** on **19th November 2022**, organized by the International Copper Association India in association with **Bureau of Indian Standards(BIS)** and supported by **The Institution of Engineers (India) (IEI)** & our program partners **Panasonic, Finolex, RR Kabel, V-Guard and KEI**.

The overall **objective** of the program was to accelerate Electrical Safety amongst key constituents of building industry and industry stakeholders with compliance of the Indian standards, regulations & codes through this nationwide campaign.

The national campaign brought together professionals associated with state electrical safety implementation bodies under one roof. Interactive session between policy makers, law enforcing agencies and designers, installers, end users of electricity in buildings were hallmark of this campaign.

The program was structured as a deliberative exercise amongst experts, supplementing attendees from electrical fraternity to enhance their knowledge on key provisions in Indian standards, regulations & codes. Good practices, that can be immediately adopted for use by various interest concerned, are shared. Indian Standard is expected to serve as a model for adoption in the interest of safety and sustainability. The intent was to keep our electrical installation practices at par with best practices in the world.



  
 **Total Attendance**

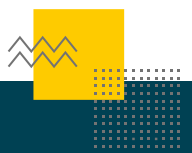
90+

 **Audience Profile**

- Electrical Engineers of all key government depts. like
  - Fire Dept.
  - Railways
  - Utilities
  - Airport Dept.
  - CPWD & PWD
- Electrical Consultants
- A Grade Electrical Contractors
- Developers & Builders (Electrical Engineers)
- Other Industry Stakeholders

 **Dignitaries**

- Shri. Amol Kalsekar, Chief Manager, International Copper Association India (ICA India)
- Dr. Prabir Kumar Mukhopadhyay, Chairman, Institution of Engineers (India) (IEI)
- Shri. Nihar Ranjan Roy, Divisional Fire Officer for West Bengal Fire & Emergency Services





## Thematic focus

The session revisited issues related to electrical safety and standards implementation in different parts of the country. The key area about the discussion was to focus upon the electrical safety, reliability, and sustainability aspects to be followed during electrical installations in buildings and its maintenance in accordance with latest standards, codes & regulations. Which further categorized into three segments by our esteemed speakers as mentioned below:

Topic	Speaker
<b>Lightning Protection &amp; Earthing in buildings as per IEC 62305 &amp; NBC 2016</b>	<b>Dr. K Janakiraman</b> , Head – Technical, OBO Bettermann
<b>Role of Wires &amp; Cable in mitigating the issues – Safety, Energy Efficiency, Reliability and Sustainability</b>	<b>Shri. Harold Dsouza</b> , Regional Commercial Manager – BASEC
1. Understanding Quality of Wires and Cables and Test Standards	
2. Selection of Wires & Cables for Safety in Buildings	<b>Shri. Amol Kalsekar</b> , Chief Manager – International Copper Association India
<b>Role of Standardisation &amp; Periodic Inspections for Achieving Electrical Safety in High-Risk Buildings</b>	<b>Shri. Hemant Sali</b> , Ex. S.E. & Electrical Inspector – PWD, Maharashtra
<b>Ester Oil Transformers towards Safety and Sustainability in Buildings</b>	<b>Shri. Saikat Koley</b> , AGM – Savita Oil Technologies Limited



# Photographs



**Shri. Amol Kalsekar**



**Dr. Prabir Kumar  
Mukhopadhyay**



**Shri. Nihar Ranjan Roy**

# Photographs



From left to right

**Shri. Indrajit Biswas,**  
Project Associate  
– ICA India

**Shri. Nihar Ranjan Roy,**  
Divisional Fire Officer  
for West Bengal Fire &  
Emergency Services

**Dr. Prabir Kumar Mukhopadhyay,**  
Chairman, Institution  
of Engineers (India)  
(IEI)

**Shri. Amol Kalsekar,**  
Chief Manager  
– ICA India



# Technical Session

**Dr. K Janakiraman,**  
Head – Technical  
OBO Bettermann

**Topic:** Lightning Protection & Earthing in buildings as per IEC 62305 & NBC 2016



**Shri. Harold Dsouza,**  
Regional Commercial  
Manager – BASEC

**Topic:** Understanding Quality of Wires and Cables and Test Standards

**Shri. Amol Kalsekar,** Chief  
Manager – ICA India

**Topic:** Selection of Wires & Cables for Safety in Buildings



## Technical Session



**Shri. Hemant Sali,**  
Ex. S.E. & Electrical Inspector  
– PWD, Maharashtra

**Topic:** Role of Standardisation & Periodic Inspections for Achieving Electrical Safety in High-Risk Buildings

**Shri. Saikat Koley,**  
AGM – Savita Oil  
Technologies Limited

**Topic:** Ester Oil Transformers towards Safety and Sustainability in Buildings





## Regular inspections & adherence to safety standards can mitigate electrical accidents: ICA India

### EOI CORRESPONDENT

**KOLKATA, NOV 22/--/** International Copper Association, India (ICA India), in association with Bureau of Indian Standards (BIS), hosted the 5th session on 'Electrical Safety at Residential, Commercial & Public Buildings' in Kolkata.

With the support of its product council members such as, Anchor by Panasonic, Finolex, KEI, RR Kabel and V Guard, ICA India laid the foundation of 'Zero Tolerance'

initiative in 2018. To further the campaign, ICA India is conducting a series of sessions to drive better cognizance amongst the larger community about the key shortcomings in electrical safety and ways to transition to a safer nation by accelerating adoption of electrical safety standards and compliances for a safer future, sources informed.

The topics addressed during the session ranged from role of standardization and

periodic inspections to role of wires & cables and transformers in mitigating the incidences of electrical accidents in buildings, earthing and lightning protection, sources said.

Amol Kalsekar, Chief Manager, International Copper Association India (ICA India) said, "Because of cost pressure, stakeholders always observe provision of bare minimum circuits planned in residential as well as commercial buildings.

Over and above this, under sizing of wires & cables further adds to this miserable situation, which often gets converted to electrical hazards like slow poison.

We firmly believe that this campaign and the technical sessions will provide industry stakeholders the platform to exchange information and ideas that can act as impetus in the adoption of electrical safety codes and regulations laid out by the Government of India."

## International Copper Association, India feels regular inspections & adherence to safety standards can mitigate electrical accidents

### CHRONICLE NEWS SERVICE

**KOLKATA:** International Copper Association, India (ICA India), in association with Bureau of Indian Standards (BIS), hosted the 5th session on 'Electrical Safety at Residential, Commercial & Public Buildings' in Kolkata. With the support of its product council members such as, Anchor by Panasonic, Finolex, KEI, RR Kabel and V Guard, ICA India laid the foundation of 'Zero Tolerance' initiative in 2018. To further the campaign, ICA India is conducting a series of sessions to drive better cognizance amongst the larger community about the key shortcomings in electrical safety and ways to transition to a safer nation by accelerating adoption of electrical safety standards and compliances for a safer future.

The topics addressed during the session ranged from role of standardization and periodic inspections to role of wires & cables and transformers in mitigating the incidences of electrical



accidents in buildings, earthing and lightning protection.

Contributing his thoughts towards the issue, Mr. Dr. Prabir Kumar Mukhopadhyay, Chairman, Institution of Engineers (India) (IEI) said, "Lack of adherence to electrical safety leads to accidents and fatalities. Due to occupational hazards, engineers, electricians, and overhead line workers are the most vulnerable groups exposed to electrical accidents. To safeguard their welfare, regular electrical inspections and strict adherence to safety standards are crucial. We believe, ICA's national campaign will serve as a powerful platform to discuss the issues related to electrical safety and ensure a robust safety mechanism to save lives and property."

Elaborating on the subject, Mr. Amol Kalsekar, Chief Manager, International Copper Association India (ICA India)

said, "Because of cost pressure, stakeholders always observe provision of bare minimum circuits planned in residential as well as commercial buildings. Over and above this, under sizing of wires & cables further adds to this miserable situation, which often gets converted to electrical hazards like slow poison. We firmly believe that this campaign and the technical sessions will provide industry stakeholders the platform to exchange information and ideas that can act as impetus in the adoption of electrical safety codes and regulations laid out by the Government of India."

Every day in India 11 people die due to fatal electrical accidents. As per the CEA data, a total of 10,022 electrical accidents were reported in India between 2019 - 2020 and 55% of these electrical accidents can be attributed to low voltage

electrical installations. On one hand India is one of the fastest growing nations, but on the other hand statistics like these showcase a grim reality about the apparent negligence towards electrical safety.

Some of the major causes of fatal electrical accidents are - inefficient circuit planning in residential as well as commercial buildings, under sizing and inferior quality of wires and lack of periodic electrical inspection. In order to tackle these issues, the Government of India has introduced various electrical standards, codes and regulations, but lack of adherence to the code by relevant stakeholders, as well as lack of understanding among the end users has led us to this inopportune state. ICA India is a leading advocate for electrical safety on behalf of the copper industry in India, aligned to the government's goal of transforming into a developed nation by 2047 and electrical safety in commercial and residential buildings is a very important element for the fulfilment of this vision.

**Eastern Chronicle**

Date: 25th Nov 2022  
Page No: 11

## आईसीए इंडिया ने विद्युत सुरक्षा पर महानगर में आयोजित किया सत्र

कोलकाता, समाज्ञा : इंटरनेशनल कॉपर एसोसिएशन, इंडिया (आईसीए इंडिया) ने भारतीय मानक ब्यूरो (बीआईएस) के सहयोग से कोलकाता में 'आवासीय, वाणिज्यिक और सार्वजनिक भवनों में विद्युत सुरक्षा' पर 5वें सत्र की मेजबानी की। अपने विचार व्यक्त करते हुए, इंस्टीट्यूशन ऑफ इंजीनियर्स (इंडिया) (आईईआई) के अध्यक्ष डॉ. प्रवीर कुमार मुखोपाध्याय ने कहा कि विद्युत सुरक्षा के पालन की कमी से दुर्घटनाएं और मौतें होती हैं। अमोल कालसेकर, चीफ मैनेजर, इंटरनेशनल कॉपर एसोसिएशन इंडिया (आईसीए इंडिया) ने कहा कि लागत के दबाव के कारण, हितधारक हमेशा आवासीय और व्यावसायिक भवनों में नियोजित न्यूनतम सर्किट के प्रावधान का पालन करते हैं। इसके अलावा, तारों और केबलों के आकार में कमी इस दयनीय स्थिति को और बढ़ा देती है, जो अक्सर धीमी जहर जैसे बिजली के खतरों में परिवर्तित हो जाती है।

इंटरनेशनल कॉपर एसोसिएशन, इंडिया का मानना है कि नियमित निरीक्षण और सुरक्षा मानकों के पालन से विद्युत दुर्घटनाओं को कम किया जा सकता है

कोलकाता, इंटरनेशनल कॉपर एसोसिएशन, इंडिया (आईसीए इंडिया) ने भारतीय मानक ब्यूरो (बीआईएस) के सहयोग से कोलकाता में 'आवासीय, वाणिज्यिक और सार्वजनिक भवनों में विद्युत सुरक्षा' पर 5वें सत्र की मेजबानी की। एंकर बाय पैनासोनिक, फिनोलेक्स, केईआई, आरआर काबेल और वी गार्ड जैसे अपने उत्पाद परिषद के सदस्यों के सहयोग से, आईसीए इंडिया ने 2018 में 'जीरो टॉलरेंस' पहल की नींव रखी। अभियान को आगे बढ़ाने के लिए, आईसीए इंडिया एक श्रृंखला आयोजित कर रहा है। विद्युत सुरक्षा में प्रमुख कमियों के बारे में बड़े समुदाय के बीच बेहतर सज्ञान चलाने के लिए सत्र और सुरक्षित आईपीएलभविष्य के लिए विद्युत सुरक्षा मानकों और अनुपालनों को अपनाने में तेजी लाकर सुरक्षित राष्ट्र में संक्रमण के तरीके। सत्र के दौरान जिन विषयों पर चर्चा की गई उनमें मानकीकरण की भूमिका और आवधिक निरीक्षण से लेकर इमारतों में विद्युत दुर्घटनाओं की घटनाओं को कम करने में तार और केबल और ट्रांसफार्मर की भूमिका, अर्थिंग और लाइटनिंग सुरक्षा शामिल थे। इस मुद्दे पर अपने विचार व्यक्त करते हुए श्री डॉ. प्रवीर कुमार मुखोपाध्याय, चेयरमैन, इंस्टीट्यूशन ऑफ इंजीनियर्स (इंडिया) (आईईआई) ने कहा, "विद्युत सुरक्षा के पालन में कमी दुर्घटनाओं और मौतों का कारण बनती है। व्यावसायिक खतरों के कारण, इंजीनियर, इलेक्ट्रीशियन और ओवरहेड लाइन कर्मचारी विद्युत दुर्घटनाओं के संपर्क में आने वाले सबसे कमजोर समूह हैं। उनके कल्याण की रक्षा के लिए, नियमित विद्युत निरीक्षण और सुरक्षा मानकों का सख्ती से पालन करना महत्वपूर्ण है। हमारा मानना है कि आईसीए का राष्ट्रीय अभियान विद्युत सुरक्षा से संबंधित मुद्दों पर चर्चा करने और जीवन और संपत्ति को बचाने के लिए एक मजबूत सुरक्षा तंत्र सुनिश्चित करने के लिए एक शक्तिशाली मंच के रूप में काम करेगा। इस विषय पर विस्तार से बताते हुए, इंटरनेशनल कॉपर एसोसिएशन इंडिया (आईसीए इंडिया) के मुख्य प्रबंधक, श्री अमोल कालसेकर ने कहा, लागत के दबाव के कारण, हितधारक हमेशा आवासीय के साथ-साथ वाणिज्यिक भवनों में न्यूनतम न्यूनतम सर्किट के प्रावधान का पालन करते हैं। इसके अलावा, तारों और केबलों का छोटा आकार इस दयनीय स्थिति को और बढ़ाता है, जो अक्सर धीमी जहर जैसे बिजली के खतरों में परिवर्तित हो जाता है। हमारा दृढ़ विश्वास है कि यह अभियान और तकनीकी सत्र उद्योग के हितधारकों को सूचना और विचारों के आदान-प्रदान के लिए मंच प्रदान करेंगे। जो भारत सरकार द्वारा निर्धारित विद्युत सुरक्षा कोड और विनियमों को अपनाने में प्रोत्साहन के रूप में कार्य कर सकता है।

# Media Coverage (Digital)

## **ANI News**

<https://www.aninews.in/news/business/business/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents20221122155312/>

## **Press Trust of India**

<https://www.ptinews.com/pti/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents/58474.html>

## **India Info Line**

[https://www.indiainfoline.com/newsvoir?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2fwww.indiainfoline.com%2fnewsvoir](https://www.indiainfoline.com/newsvoir?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2fwww.indiainfoline.com%2fnewsvoir)

## **Zee 5**

<https://www.zee5.com/articles/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents>

## **The Week**

<https://www.theweek.in/wireupdates/business/2022/11/22/dcm24-international-copper-association.html>

## **Devdiscourse**

<https://www.devdiscourse.com/article/technology/2260846-regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents>

## **The Print**

<https://theprint.in/ani-press-releases/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents/1229846/?amp>

## **The Asian Chronicle**

[https://theasianchronicle.com/press-release/?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2ftheasianchronicle.com%2fpress-release%2f](https://theasianchronicle.com/press-release/?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2ftheasianchronicle.com%2fpress-release%2f)

## **Lokmat Times**

<https://www.lokmatimes.com/business/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents/>

## **Big News Network**

<https://www.bignewsnetwork.com/news/273128136/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents>

# Media Coverage (Digital)

## **New Kerala**

<https://www.newkerala.com/news/2022/147908.htm>

## **HT Syndication**

<https://www.htsyndication.com/newsvoir/article/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents/66473508>

## **WebIndia 123**

[https://news.webindia123.com/news/newsvoir.asp?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2fnews.webindia123.com%2fnews%2fnewsvoir.asp](https://news.webindia123.com/news/newsvoir.asp?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2fnews.webindia123.com%2fnews%2fnewsvoir.asp)

## **The Covai Post**

[https://www.covai-post.com/news-cache/?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2fwww.covai-post.com%2fnews-cache%2f](https://www.covai-post.com/news-cache/?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2fwww.covai-post.com%2fnews-cache%2f)

## **Daily Hunt**

<https://m.dailyhunt.in/news/india/english/newsvoir-epaper-newsvoir/regular+inspections+and+adherence+to+safety+standards+can+mitigate+electrical+accidents-newsid>

## **Latestly**

<https://www.latestly.com/agency-news/business-news-regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents-4491823.html>

## **Mixpoint**

<https://mixpoint.in/breaking-news/2022/11/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents/>

## **Gadget2.in**

[https://www.gadget2.in/newspr1.php?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2fwww.gadget2.in%2fnewspr1.php](https://www.gadget2.in/newspr1.php?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2fwww.gadget2.in%2fnewspr1.php)

## **Vishva Times**

[https://vishvatimes.com/home/newspr1?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2fvishvatimes.co](https://vishvatimes.com/home/newspr1?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2fvishvatimes.co)

## **News Control Room**

[https://www.newscontrolroom.com/newsvoir/?c\\_article\\_id=22464&c\\_author\\_id=18772&pageid=2&originurl=https%3a%2f%2fwww.newscontrolroom.com%2fnewsvoir%2f](https://www.newscontrolroom.com/newsvoir/?c_article_id=22464&c_author_id=18772&pageid=2&originurl=https%3a%2f%2fwww.newscontrolroom.com%2fnewsvoir%2f)

# Media Coverage (Digital)

## **The Good**

[https://the-good.in/newsvoir/?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=https%3a%2f%2fthe-good.in%2fnewsvoir%2f](https://the-good.in/newsvoir/?c_article_id=22464&c_author_id=18772&originurl=https%3a%2f%2fthe-good.in%2fnewsvoir%2f)

## **The Indian Newshub**

[http://www.theindiannewshub.com/newsvoir/?c\\_article\\_id=22464&c\\_author\\_id=18772&originurl=http%3a%2f%2fwww.theindiannewshub.com/newsvoir%2f](http://www.theindiannewshub.com/newsvoir/?c_article_id=22464&c_author_id=18772&originurl=http%3a%2f%2fwww.theindiannewshub.com/newsvoir%2f)

## **Mangalore Mirror**

<https://www.mangaloremirror.com/regular-inspections-and-adherence-to-safety-standards-can-mitigate-electrical-accidents/>

## **Daily 24x7 News**

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## **New Delhi Times**

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## **Samachar Live**

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## International Copper Association India (ICA India)

ICA India a not for profit and non—commercial organization is member of Copper Alliance and Indian Centre of International Copper Association. ICA India conducts various programs in interest of Electrical Safety, Energy Efficiency and Sustainability, employing a mix of market development and advocacy to encourage proper and beneficial use of copper in the power sector. ICA India drives its initiatives through seminars, workshops & training programs across India in collaboration with different industry stakeholders and like-minded organizations. With dedicated panel of experts and senior professionals, ICA India conducts nearly 250 seminars/workshops annually on "Safe Electrical Installation Practices"

### Bureau of Indian Standards (BIS)

Indian Standards reflect the national consensus and distilled wisdom of various stakeholders ( industry, academic institutions, labs, government bodies etc). It provides benefits to the national economy by providing safe and reliable quality goods. They help in ensuring the safety and efficiency of devices, systems or services for people and the environment.

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