



INTERNATIONAL COPPER ASSOCIATION INDIA Q2-Q3 INDIA HIGHLIGHTS

Building Construction Non-Electrical

High Efficiency Motors India

Workshops and awareness programs for High Energy Efficiency Motors & Pumps at: -

- Slot Seminar with CII in Jalandar, Punjab.
 - Inhouse Seminar at Tamil Nadu Newsprint & Papers Ltd., Kagithapuram.
 - Cluster Seminar at GIDC Mehsana, Bhavnagar, Gujarat.
 - Participated & Co Sponsored in Energy Circle Competition organized by CII at New Delhi. More than 300 participants from various industries attended the event.
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- M/s J K Tyres presented a case study on adoption of IE3 motors in their plant showcasing the energy savings achieved. They have also recognized ICA India's efforts during their presentation in facilitating them for the adoption of IE3 motors
 - Due to ICA's continued efforts, L&T at Kansabahal, Orissa which is the state's largest heavy engineering unit in the private sector has changed its technical specifications incorporating IS 12615 and procuring HEMs
 - Slot Seminar was conducted along with Confederation of Indian Industries (CII) for Honda Cars & its ancillaries in Greater Noida. Energy Efficiency Services Limited (EESL) was also invited to speak regarding National Motor Replacement Program
 - Inhouse Seminars at JSW Energy, Bellary & BARC, Mysore regarding adoption of Energy Efficient Motors & EESL Motor Replacement Program.

Transformer India

- ICA India was invited as the expert speaker at National Fire Advisory Committee meeting held at Nagpur during 24/25th May on "Transformer Fire Prevention, Protection and available Rules & Regulations". The meeting was attended by Central Govt Ministry of Home Affairs officials and All - State Chief Fire Officers. Deliberation on burning issues and possible policy trigger to address such issues are undertaken. This event endorsed ICA's neutral knowledge leadership position before National Fire Services body.
- Attended Indian Electrical and Electronics Manufacturers Association (IEEMA) Distribution transformer divisional meeting on 27th April at Mumbai and meeting with Mill Representatives to address the issue of importing second CRGO in India through various routes and use of the second CRGO
- ICA India got an independent third-party test done on Active Repair of DT. This was completed by ERDA Vadodara in coordination with Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Ltd. (MPPKVVCL). Final reports received an internal discussion on the Draft report completed on 26th July. A presentation before MP state must be done following which, a white paper will be released as well as commissioning of repaired DTs including M&V will be put in place.
- An In-house workshop on "Active Repair of DT Concept and POC cum business model" was organized on 24th July at Chennai on request of TANGEDCO decision makers. Director Technical evinced keen interest. More than 45 utility engineers from various departments like Material Management, O&M, Purchase, R&D, Operation etc. attended and participated



actively. The interaction has cleared doubts and created a positive frame for considering the active repair in near future.

- ICA jointly hosted with BIS, ITMA and TANGEDCO a national seminar at Chennai on 24th July for various utility engineers and local OEMs. The meeting was attended by 70 plus engineers. DT TANGEDCO has expressed eagerness to consider developing a project on active repair of DTs. Follow up action initiated with local DT repairer to take it up formally.
- Attended Trafocare conference cum workshop during 7th and 8th of August organized by K Cluster a Mumbai based think tank to address issues of transformer reliability, safety, diagnostics and performance. 200 plus delegates attended with interactive session. Main takeaway is increasing tendency of utilities to consider “Asset Management Practice” and focus on monitoring from energy handing point. Discussion initiated to create a third-party platform exclusively focused on DTs, our area of interest, bringing in Copper’s value proposition to increase reliability and safety.
- Presentation made along with alternate business models on active repair of DTs completed by ICA India in coordination with **Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Ltd.** (MPPKVVCL) Indore on 16th August 2018 before the Chief Engineer Corporate holding charge of Director Technical and entire senior team. The results of the pilot have brought convincing arguments in favour of Copper based repair. The Clients team shown very positive approach for adopting this concept and requested for OPEX based model to adopt the concept towards business process change.
- ICA India made presentation on Transformer Loss estimation Tool during 9th-11th Aug DSM and EE session held for Purvanchal Vidyut Vitaran Nigam Limited (PUVVNL) utility engineers held at Varanasi and also followed up DT active repair proposition earlier made before Uttarakhand Power Corporation Limited (UPCL) Dehradun

Wire and Cable India

Building Wire

- Safe electrician Training and Certification Program - ICA India in support to Building Wire program partner – KEI successfully organized safe electrician training and certification program at Cochin (Kerala), on 28th May 2018 to enhance Electrical Safety Environment in India, while adhering to National Regulatory Provisions, Codes and Practices.
- The National Seminar on Electrical Safety & Energy Conservation in Building was held in Mumbai on 25th May 2018, organized by the International Copper Association India in association with Bureau of Indian Standards(BIS), Central Electricity Authority (CEA), Bureau of Energy Efficiency(BEE), Chief Electrical Inspectorate and Consulting Electrical Engineers Association of Maharashtra (CEEAMA). The objective was to enhance Electrical Safety & Energy Sustainability drive amongst key constituents of building industry and industry stakeholders, through a nationwide awareness campaign. Key provisions in NBC and ECBC, especially electrical area, under National Regulatory Guidance and Practices thereof were deliberated.
- ICA India in support to Building Wire program partner – FINOLEX successfully organized safe electrician training and certification program at Jamshedpur (Jharkhand), on 20th July 2018. The objective of the program was to enhance Electrical Safety Environment in India while adhering to National Regulatory Provisions, Codes and Practices.
- Periodic Inspection of Low Voltage Electrical Inspection status: ICA India submitted the English translated version of existing Japanese guideline on periodic inspection of LV electrical installation to Maharashtra state chief Electrical inspector as a reference document for developing Electrical inspection guidelines. 1st draft of Syllabus designed for Chartered



Electrical Engineers regarding inspection of LV electrical Installations, released and hosted on CEA website.

- As a part of all India Electrical Safety awareness campaign started by ICA India - “Safe wiring, safer buildings”, ICA India in conjunction with **Ministry of Home Affairs, Central Electrical Authority and Bureau of Indian Standards** organized roundtable media conference on 19th July 2018. This was aimed towards raising awareness and educate on appropriate electrical safety policies and ensuring the right material and right size of electrical wiring. Roundtable was addressed by Representatives from ICA India along with Ministry of Home Affairs, Bureau of India Standards & Central Electricity Authority, Discussion was in and around Current statutory provisions in India regarding Electrical standards & Codes, Fire accident data released by CEA, Necessity of Periodic inspection, etc. It was attended by more than 20 media houses.
- Periodic Inspection of Low Voltage Electrical Inspection status: ICA India attended Steering committee meeting formed by CEA & all state chief electrical inspectors to speed up the process of Periodic Inspection in India wherein draft syllabus designed for Chartered Electrical engineers regarding inspection of LV electrical installations were discussed and hosted on CEA website for comments.
- BIS ETD20 meeting held on 6th August 2018 – NEC Revision: ICA India submitted revised draft of section 9 i.e. Safety in Electrical Installation
- Visit to Bangladesh on 12th August: ICA India visited Bangladesh to meet the key officials of Institute of Electrical and Electronics Engineers(IEEE) Bangladesh to understand how ICA India can help them overcome the electrical safety issues in their country and promote safe electrical installation practices. The next step is to start MoU with IEEE and plan for the first national workshop in November.
- ICA India partnered 8th International conference on CABLES & WIRES hosted by IEEMA held in Delhi dated 23rd & 24th August 2018
 - The theme for the Conference, “**Powering Innovations through Safe and Efficient transportation of Electricity**”, was in line with the advancement in Cables and Wires technology. The Conference focused on Innovation & Emerging Technologies in Wire & Cables, Materials, Supply, Installation, Testing, Commissioning (SITC) and Standardization Panel discussion on Emerging Technologies in Cables and Wires
 - The Conference was very well supported & attended by Central Electricity authority(CEA), Different state utilities, EP Contractors, Cable manufacturers, Auditors, Research organisation, Academic institutions, etc.

Power Cable

- International Copper Association India (ICAI) prepared and submitted the technical paper on Fire Survival (FS)Cable for Indian Electrical and Electronic Manufacturer Association journal for spreading awareness on FS cables with copper conductor.
- **Indian Standard for Fire Survival Cables:** ICA India conducted a meeting on 8th August in Delhi to discuss the Fire Survival Cable draft standard. The group discussed the drafts, made changes in it and has incorporated the views of all the members of the working group to be included in the draft. The final draft is being prepared by ICA India and will be sent to Bureau of Indian Standards.
- **Copper Champion Project:** It is a Project to identify Copper Champions, i.e., users who have mostly installed Copper Conductor cables. Through ICA India’s consistent efforts, Bhilai Steel Plant has agreed to join hands with us to develop case study, message and video to promote the message of use of copper conductor cables.



Power Quality

- International Copper Association (ICA) India delivered a training program on Power Quality and Energy Efficiency during Bureau of Energy Efficiency's (BEE) capacity building program on DSM and energy efficiency of utility engineers at locations like Punjab State Power Corporation Limited Amritsar, Pashchimanchal Vidyut Vitran Nigam Ltd. Saharanpur, Power Development Department (PDD) Jammu during 3rd/18th and 23rd May. Total around 100 participants attended.
- ICA India was invited as an expert in BEE funded SME workshops held at Pune and Kolhapur Industrial Cluster and organized by Maharashtra Energy Development Agency (MEDA) during 8th and 24th May respectively. Topic covered are "Power Quality for SMEs" and "Induction Furnaces and Harmonics". More than 150 participants joined the workshops supported by local industry associations too.
- During National Energy Circle Competition organized by Confederation of Indian Industries (CII), ICA India co-hosted an award trophy for best electrical systems and Power Quality at New Delhi during 17/18th May to encourage and address EA/EM's and industry professionals to implement Good Electrical System and Power Quality (PQ) mitigation projects. More than 350 professionals attended and 150 awards are presented on various categories.
- ICA India conducted a training program on PQ and EE during BEE's capacity building program on DSM and energy efficiency of utility engineers at locations like UPCL Allahabad, PDD J&K and Tata Power Delhi Gurugram during 12th /19th / 26th July. Total around 150 participants attended. Power Department of J&K has expressed interest in the capacity building of utility engineers in areas of energy efficiency, DSM, PQ and electrical safety.
- Hosted video blog Titled "Welding Machine- Impact on System and Mitigation" during the month. Our NSN partner P2 Power contributed on the blog and expressed further interest in generating a case study on improving PQ in the distribution system at Delhi.
- ICA India delivered training program on Power Quality and Energy Efficiency during BEE's capacity building program on DSM and energy efficiency of utility engineers at locations like Purvanchal Vidyut Vitaran Nigam Limited (PUVVNL) Varanasi, and Tata Power Delhi Gurugram during month. Total around 100 participants attended. PUVVNL engineers have sought more information on 'how to implement harmonic control' either through mitigation techniques at utility level or at customer level.
- ICA India attended 10th anniversary celebration of APQI at China during 20-22nd Aug held at Suzhou. It was attended by more than 300 delegates especially utility engineers. ICA India made a presentation on APQI –India A Decade's journey and participated in entrepreneurs' meeting plus two standard group meeting.
- Hosted a video blog titled "Power factor and Reactive Power Management" during the month. Our NSN partner Prof Gokhale contributed on the blog and expressed further interest in generating a student chapter activity for improving PQ in industries around Pune.

Technical and Market Support

Defence against Material substitution of Appliances – India

- Wrap up of 100% Copper Advantage Social Media Campaign:
- The social media campaign for 100% Copper Advantage in Room Air Conditions was concluded by May end. The campaign was carried out across seven social media platforms including Facebook, Instagram, Twitter, LinkedIn, YouTube, Google and Vdopia. The copper



advantage message was delivered through infographics, GIFs, and animated videos. It registered over 5 mn impressions and over 200K views.

- Long-Term performance test:
 - CLASP: The MoU between CLASP and ICA India took place and a meeting to finalize the scope of work. The order with Sierra Aircon Pvt Ltd – a NABL certified air-conditioning lab for testing the air conditioners has been finalized
 - RATA MELA – Technical Seminar on VRF: VRF Mela was organised by RATA in association with Hitachi Home Appliances in Bangalore on 27th July 18 where 180 people from various fields attended the program.

Marketing and Strategic Communications

Continuing with the task of positioning ICA India as a thought leader, key articles and interviews have been explored: -

- Exclusive interview with Mr. Sanjeev Ranjan in Energy Outlook magazine
- Cooling India featured an article on “star ratings in ACs”
- Wrap up Press release on 100% copper advantage was very well captured by media and was covered by 90 print and online news portals
- ICA India garnered media visibility in various trade and regional publications on the seminar on electrical safety and energy conservation held in Mumbai on 25th May.
- ICA leading ancient villages rewiring CSR project is now replacing aluminum wires and aging copper wires for traditional buildings in poverty rural area. This project perfectly demonstrates copper and copper industry’s contribution to safety. The message will be amplified by project partners like Siemens, Legrand and wire companies.
- In August, ICA will sponsor the first China Renewable Energy Conference to emphasize copper’s role in renewable energy as green tech enabler. Over 1,000 audience from authority, business sector and institutes/universities will well receive ICA designed messages from on-site display as well as social media campaign.
- In September, ICA and Jiangxi Copper will co-host the International Copper Summit. This event will significantly enhance ICA’s reputation within copper industry and regulators. The copper’s role in green development and ICA’s perfect understanding of downstream will be showcased.
- Exclusive interview with Mr. Sanjeev Ranjan in leading trade publication – Wire bulletin on how the choice of good quality material and size of the wire is a requisite for preventing hazard, an Exclusive interview with Mr. Amol Kalsekar in on one the leading regional publications ‘Saamna’
- From the regional media roundtable on Electrical safety, 25 coverages were secured i.e. covered in almost 75% mainline newspapers
- Authored Article from Mr. Manas Kundu on “HOW IoT BASED MONITORING SYSTEM ENHANCES PERFORMANCE OF DISTRIBUTION TRANSFORMERS”, an article on Active repair and Transformer tool appeared in Electrical India, ITMA journal, IEEMA special issue on Transformer before Trafotech.
- Interview of Mr. Sanjeev Ranjan in leading wire – Press Trust of India (PTI) on the implications of the closure of Sterlite plan in Tuticorin
- Authored article of Mr. Abhishek Dhupar in trade magazine – The Machinist
- Disseminated a release in Chennai on the seminar organized by ICA India along with BIS and ITMA on "Standards, Design and other related issues". Total coverage across Chennai – 10
- Disseminated a release on the VRF technology seminar in Bangalore: Total Coverage 10.

MEDIA VISIBILITY:

INTERVIEW

Copper: Reign of the metal

Rajendra Singh, Managing Director, International Copper Association India

Q1. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q2. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q3. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q4. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q5. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q6. How successful is your role in the overall copper market in India?
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Q7. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q8. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q9. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

Q10. How successful is your role in the overall copper market in India?
The copper market has seen a steady growth in the country, which has led to the adoption of VRF technology. This has been a key factor in the growth of the VRF market in India, which is expected to continue to grow in the coming years.

ICA India Promotes VRF Technology for Sustainability and Energy Efficiency

Bengaluru, August 14, 2018 (Press Release Online) International Copper Association India (ICA India) in association with the Refrigeration & Air-Conditioning Trades Association Ltd (RATTA), aims to create awareness on the Variable Refrigerant Flow (VRF) technology and its advantages, among the air conditioning industry professionals, consultants, dealer service providers and end users. VRF heating and cooling systems ensure energy efficiency, flexibility and improved comfort in small to mid-sized commercial buildings. ICA India endeavours to promote VRF systems into the Indian markets and initiatives for environmental sustainability and energy efficiency. The VRF technology is designed to offer the utmost desired comfort level while saving significantly on operational costs.

सेफ वायरिंग, सेफर बिल्डिंग्स

वीज सुरक्षा, संवर्धनावर चर्चासत्र

मुंबई, ता. २० : पब्लिकगती भरे, प्रत्येकाला भर आणि झपाट्याने होणारी बांधकाम क्षेत्रातील हस्तभार पाहता देखावत दादा कर्तार बांधकाम क्षेत्रातील उभाची होयकाची शक्यता आहे. २०३०पर्यंत एक अजब पौरस मीटर चढई क्षेत्राची यात भर पडेल, असा अंदाज आहे. एकूण ऊर्जा वापरता त्यापारी इमारतीचा वाटा सुमारे १० टक्के असणार आहे. तंत्रज्ञानाचा वापर करून विजेजळे दोषाच्या अपघातांचे प्रमाण टुट्यावर आणण्याचा संकल्प इतरवित्तल करार असोसिएशन ऑफ इंडियाने (आयसीएई) केला आहे. 'सेफ वायरिंग, सेफर बिल्डिंग्स' या विषयावर शुक्रवारी एक चर्चासत्र घेण्यात आले. यात मुंबईत 'इमारतीतील वीज सुरक्षितता व ऊर्जेचे संवर्धन' यावर संवाद घेण्यात आला. या वेळी मुख्य वीज निरीक्षणालय, सार्वजनिक बांधकाम विभाग, केंद्रीय सार्वजनिक बांधकाम विभाग आदी येथेचा उपस्थित होते. महाराष्ट्र मुख्य वीज निरीक्षक एम. आर. बगडे म्हणाले, 'वाचर शर्टसिकिंमुळे लष्णाणा आगोच्या घटना, शकः लगत मृत्यू आदींवर टोस उपरायोजना आणि जगारकता निर्माण करणे गरजेचे आहे. सुरक्षा साहायत विद्युत सुरक्षिततेची संघीत मुख्य समर्यांबाबत चर्चेसाठी व्यासपीठ देते. ते रायगत विद्युत सुविधांचा दर्जा व नियमांची अंमलबजावणी करण्यासाठी मठा करते.'

अशी होणार जनजागृती

- वीज अपघातांची माहिती
- विजेच्या धक्क्यापासु संरक्षण
- आधुनिक प्रकारावोजना
- बांधकाम इमारतीची वीज सुरक्षितता
- इमारतीत ऊर्जा संवर्धन
- विजेच्या उपकरणांची नियमित तपासणी

मुंबई : चर्चासत्रात मुख्य वीज निरीक्षक एम. आर. बगडे यांचे स्वागत कताना आयसीएई इंडियाने व्यवस्थापकीय संचालक संजीव रंजन, सोबात संघटनेचे मुख्य व्यवस्थापक अमोल कळसेकर.

Copper association launches awareness campaign for electrical safety

23-Jul-2018 Useful Information | Industry News

ICA India launches 'Safe wiring, safer buildings' campaign

