

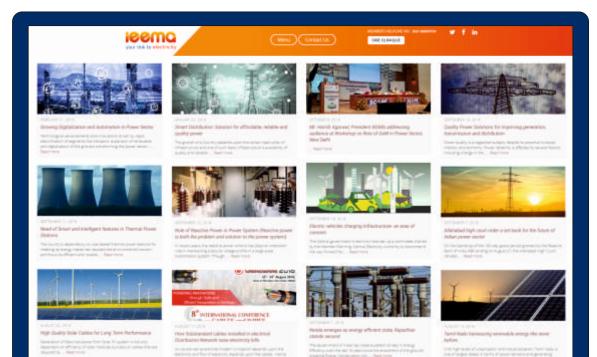


NA GROUN



Engage with our Social Media & Blog

https://ieema.org/blog/







@tweetieema



followIEEMA



ieema-electrifyingindia





PRESIDENT'S MESSAGE

Mr. R.K. Chugh Executive Vice President, Industry Interface, Smart Infrastructure Siemens Ltd

ear Friends,

During my one-year stint as President IEEMA, I have been writing on various issues concerning industry in general and electrical equipment industry in particular. It was indeed a wonderful stint and it has been an honour to work with each one of you.

The year has been very exciting with more than its due share of ups and downs, but we together managed the situation well. I would like to recall all the happenings during the year starting from my resolve during AGM while taking over the Presidentship in September 19. It was on my agenda to give a formal structure to the Regional Committees in all four regions while further strengthening the various Divisions of IEEMA. Also, we resolved to work on membership numbers and outreach to them. Good news is that we fulfilled all these tasks well, a big thanks for your support.

Our regional committees of East, West, North and South got good representation from all states and industry domains in a highly focused and systematic manner. Infact many of the regional Chairmen also constituted state level committees to reach out to respective members. In parallel, Divisions were also empowered and strengthened more making them stand on their own.

An All Regional committee meeting brought all regions on same level of understanding as regards their roles and way forward. Same way, an all Divisional meeting was instrumental in precipitating the common issues & clarifying mutual expectations between Divisions/Regions & National Executive Council & Secretariat. New Divisions were created for Railways, E- Mobility & Charging Infrastructure to address growing potential in these areas for our members.

We as an Association are committed to create skilled manpower for the sector. Taking a small step in this direction, IEEMA joined hands with Power Sector Skills Council (PSSC) in sponsoring Electrician training programmes at Delhi to cater to growing demand for these skills in residential and industrial segments.

Our Mega event of the year, ELECRAMA created another record with more than 3,00,000 footfalls and 1370 exhibitors showcasing their products and services at the biggest showcase of electrical and electronics manufacturers. Business queries for more than 4.6 billion US Dollars were generated at the event. Overall the event was a delightful experience for exhibitors, visitors, dignitaries, sponsors & all other stake holders in power sector. The benchmark set by the event certainly raises the bar for the next ELECRAMA in 2022.

While we had just concluded ELECRAMA, came the deadly Coronavirus Pandemic which has shaken the whole World. On March 25th, 2020, India began an unprecedented lockdown to fight the spread of COVID-19. In these troubling times of **'social distancing'** and **'working from home'**, the centrality of electricity in powering our current and future societies is more evident than ever before.

IEEMA worked round the clock to ensure that problems of our industry are raised at all possible platforms with the Government of India and State Governments. We have been actively engaging with Ministry of



Commerce & Industry, Power, Railways, Home & of course Finance to share with them our concerns and issues. We have also had our members meetings at top level of CMDs and Directors of practically all major utilities across regions. Infact, in some of the states, we had these meetings also at Chief Secretary level. Highest interest was of course drawn by the session with Shri R K Singh, Minister of Power where the audience were spell bound by his clarity of thought and openness to support our industry. Infact in subsequent days, we were happy to see series of announcements on strengthening Make in India and putting conditions on imports, particularly on the items where sufficient manufacturing capacity exists in the country. This is bound to improve capacity utilisation for our members, making them more competitive and spread their wings even more also in Global markets.

Like many firsts, this year elections at IEEMA for National Executive Council and then for Office Bearers were held through e-voting. I congratulate the new NEC and Office Bearers and wish them all the best. I am convinced that the way we have handled this unprecedented pandemic on Digital platforms and how we are going to use the current events, policies and developments to reform and transform ourselves at this crucial point for our industry, will be a proud legacy we can leave to the next generations.

As I near the end of my term as President of IEEMA, I must say that it has been the most incredible honour in my long professional career of almost 40 years. To work with all of you, to take forward the good work of my predecessors, and to leave a solid launch platform for my successors – it has all been incredibly satisfying. I must specifically acknowledge the fantastic support of IEEMA National Executive Council, IEEMA Secretariat, now known as IOT (IEEMA Operations Team), IEEMA Product Divisions & Regional Committees and all the members of this great Association.

We have already announced **IEEMA's Annual Convention & AGM for 23rd September** on the theme of **AatmNirbhar Bharat** on virtual platform. Same day, we will also inaugurate the **Digielec Bharat** virtual Exhibition to showcase capabilities of IEEMA members in Electrical Equipment sector. This would continue together with e-Conference till 27th September with different tracks on Transforming Business through Technology.

While during AGM, I hand over the baton to President elect Mr Anil Saboo, I wish him all the success. At the same time, a big thanks to my present co-Office Bearers, Mr Vipul Ray & Mr Rohit Pathak for their excellent contribution and support to enable achieve the results and observe our values. Let us continue to work together hand in hand for making the association relevant and value adding for its members. As always, I welcome your suggestions towards further improvement, you can reach me at president@ieema.org. After the AGM on 23rd September, you are welcome to remain in touch on my personal mail ID: rk.chugh2010@gmail.com

Stay safe, stay happy!!!

RKChugh





National Council



PRESIDENT

Mr. R.K. Chugh Executive Vice President, Industry Interface, Smart Infrastructure Siemens Ltd

SR. VICE PRESIDENT Mr. Vipul Ray Managing Director Elmex Controls Pvt Ltd





VICE PRESIDENT Mr. Rohit Pathak CEO & President Aditya Birla Insulators

IMMEDIATE PAST PRESIDENT

Mr. Harish Agarwal CEO Supreme & Co Pvt Ltd







AatmaNirbhar BHARAT

Elected Members



Mr. Sanjay Abhyankar Sr. Vice President – Sales Apar Industries Ltd



Mr. Jitendra Kumar Agarwal Jt. Managing Director Genus Power Infrastructure Ltd



Mr. Manish Agarwal CEO – Solutions Business Sterlite Power Transmission Limited



Mr. Hamza Arsiwala Chairman & Managing Director Stelmec Limited



Mr. Siddharth Bhutoria President RTS Power Corporation Ltd



Mr. Siddharth K Desai Vice President Hindustan Motor Mfg Co



Mr. Aaditya R. Dhoot Managing Director IMP Powers Limited



Mr. Venkat Garimella VP- Corporate Strategy & Business Development Schneider Electric Pvt Ltd



Mr. Rajesh Kabra Vice President R R Kabel Ltd





Elected Members



Mr. Vijay Karia Chairman & Managing Director Ravin Infraprojects Private Limited



Mr. Ashok Kulkarni General Manager CG Power and Industrial Solutions Limited



Mr. Naveen Kumar Vice President & Head – Corporate Centre L&T Electrical & Automation Larsen & Toubro Limited



Mr. Neeraj K Nanda President – South Asia (T&D Solar) KEC International Limited

Υ.



Mr. Anil Saboo Chairman & Managing Director Elektrolites (Power) Pvt Ltd



Mr. Kapil Singhal President – Projects Supreme and Co. Pvt Ltd



Mr. Sunil Kumar Singhvi CEO (Energy) Secure Meters Limited





AatmaNirbhar BHARAT

Counsellors



Mr. Raj H. Eswaran Managing Director Easun Reyrolle Limited



Mr. Vishnu Agarwal Chairman & Managing Director Technical Associates Ltd.



Mr. Babu Babel Non-Executive Director Secure Meters Ltd



Mr. Sanjeev Sardana Managing Director Yamuna Power & Infrastructure Limited



Mr. Shreegopal Kabra Co-Founder & Managing Director RR Kabel Ltd





Co-opted Members



Mr. Vinamra Agarwal Director Technical Associates Ltd



Mr. T Madhava Das Sr. Vice President & Head Power Transmission & Distribution Larsen & Toubro Limited



Mr. Vikram Gandotra General Manager (Mkt & Strategy) Siemens Ltd



Mr. Vimal Kejriwal Managing Director & CEO KEC International Ltd

The The The Charge and the second



Mr. Nirmal Saraf Managing Director Nirmal Wires Pvt Ltd



Mr. Jayesh Shah Managing Director Citizen Metalloys Ltd



Mr. Shashin Shah Partner Kusum Engineering Works





AatmaNirbhar BHARAT

Standing Invitees



Mr. Atul Arya Head –Energy Systems Panasonic Ind. Pvt Ltd



Mr. R.D. Chandak (Past President) Founder & CEO RDC Business Advisory



Mr. Ajit Singh Chouhan



Mr. Y.V. Joshi President Electrical Research and Development Association



Mr. Ashish Khanna President – Renewables & MD & CEO Tata Power Solar Systems Ltd



Mr. Anil Kumar Chief Marketing Officer – Copper Products Hindalco Industries Limited



Mr. Amitabh Mathur Director & Board Member Chennai Petroleum Corp. Ltd (Indian Oil)



Mr. Manish Mohnot Managing Director & CEO Kalpataru Power Transmission Ltd



Mr. V.S. Nandakumar Director General Central Power Research Institute





Standing Invitees



Mr. A.S. Subramaniyan Vice President (Sales) Siemens Ltd



Mr. Sunil Wadhwa



Mr. Mustafa Wajid Managing Director & CEO MHM Holdings Pvt Ltd

Divisional Chairmen



CABLE DIVISION Mr. Shashi Amin President & SBU Head - Cables Polycab India Ltd



CAPACITORS & POWER QUALITY DIVISION Mr. Rajat Kapoor Dy. General Manager Larsen & Toubro Limited



CONDUCTOR DIVISION Mr. Kalpesh D Shah Director JSK Industries Private Limited



DISTRIBUTION TRANSFORMERS DIVISION Mr. Alok Agrawal Director Uttam (Bharat) Electricals (P) Ltd

at for The fill for such he



ELECTRICAL INSULATING MATERIAL DIVISION Mr. Suhrid Sanghvi Managing Director Beico Industries Pvt Ltd



ELEVATORS AND ESCALATORS DIVISION Mr. Sebi Joseph President Otis Elevator Company (India) Limited

AatmaNirbhar BHARA

Divisional Chairmen



INSTRUMENT TRANSFORMER DIVISION Mr. Vishal G Borse General Manager – Marketing & Sales Pragati Electricals Pvt Ltd



INSULATORS DIVISION Mr. Sanjeev Sachdev Jt. President & CMO Aditya Birla Insulators Ltd (A unit of Grasim Industries)



INTERNATIONAL BUSINESS DIVISION Mr. Randeep Narang President T&D (International) KEC International Limited



LV SWITCHGEAR DIVISION Mr. Raminder Singh Head- Product Management & Marketing (Electrical Standard Products) Larsen & Toubro Limited



MV & HV SWITCHGEAR DIVISION Mr. Chintamani Vaze Associate VP & Head-Sales & Marketing - MV Switchgear Stelmec Limited



METER DIVISION Mr. Ashish Tandon Vice President – Sales & Marketing Landis + Gyr Ltd



POWER TRANSFORMERS DIVISION Mr. Shouvik Bhattacharya Vice President Siemens Limited



RE & STORAGE DIVISION Mr. Gyanesh Chaudhary Managing Director & CEO Vikram Solar Limited



RAILWAY BUSINESS DIVISION Mr. Kaushal Kodesia Chief Executive - Railways KEC International Limited





Divisional Chairmen



ROTATING MACHINE DIVISION Dr. Praveen Vijayraghavan Director Integrated Electric Co. (P) Ltd



SMART GRID DIVISION Mr. Sunil Kumar Singhvi CEO (Energy) Secure Meters Limited



SME DIVISION Mr. Samir Kaji Managing Director Selec Controls Pvt Ltd



SURGE ARRESTER DIVISION Mr. Vidyadhar Shevade

Dy. General Manager – Marketing (Instrument Transformers, Bushings, Lightning Arresters & Gas Circuit Breakers) CG Power & Industrial Solutions Limited



TRANSMISSION & DISTRIBUTION PROJECT DIVISION Mr. Rajeev Kumar Shah Sr. Advisor for Substation and Transmission Line Projects Supreme & Co. Pvt Ltd



WINDING WIRE DIVISION Mr. Hitesh Patel Managing Director K Patel Metal Industries Pvt Ltd



AatmaNirbhar BHARAT

Cell, Committee & Regions



PUBLIC POLICY CELL Mr. Raj Eswaran Managing Director Easun Reyrolle Limited



ECONOMIC & TAXATION COMMITTEE Mr. Yogendra S. Agarwal Chief Financial Officer & VP – Finance Bharat Bijlee Limited



NORTHERN REGION Mr. Hartek Singh Chairman & Managing Director Hartek Power Private Limited



WESTERN REGION Mr. Siddharth Desai Vice President Hindustan Motor Mfg Co.



EASTERN REGION Mr. Nirmal Saraf Managing Director Nirmal Wires Pvt Ltd



SOUTHERN REGION Mr. Vikas Jalan Managing Director Deccan Enterprises Limited



jeence your link to electricity

Madhura Bhivandkar

Rajesh Parab

Maharashtra

Sr. Executive Officer – Membership / Management Representative – ISO

Executive Officer & State Head -

IEEMA OPERATIONS TEAM

SUNIL MISRA

MUMBAI

- Ninad Ranade
 Director PVC & Statistics
- Pragati Sohoni
 Sr. Executive Officer Product Divisions

NEW DELHI

- J. Pande
- Dy. Director General
- Gopal Krishna Mallik Head – HR & Admin
- Gurleen Salgotra Head – Corporate Communications & PR
- Sudeep Sarkar Director – Public Policy, Economic & Taxation
- Jaideep Das Dy. Director – IT
- Uttam Kumar
 Sr. Executive Officer Product Divisions
- Mohd. Akeel Khan
 Sr. Executive Officer Product Divisions
- Rishabh Raj Joshi
 Executive Officer Product Divisions
- Murli Krishna Manager – Key Accounts (Trade Fair)

BANGALORE –

 K. Seetharaman
 Sr. Executive Officer - Product Division & State Head – Karnataka, Kerala & Tamil Nadu

STATE HEADS

- Anuj Kumar Chaturvedi
 Uttar Pradesh, Uttarakhand, MP & Chattisgarh
- Jesse A Inaparthi Andhra Pradesh & Telangana
- Nilankha Chaliha
 North Eastern States
- Smruti Ranjan Samantaray Odisha

BANKERS –

- Bank of India, Mumbai
- Indian Overseas Bank, Kolkata
- Yes Bank, Kolkata
- ICICI Bank, Mumbai
- Statutory Auditors : M/s. Singhi & Co., Mumbai
- Internal Auditors: M/s. S.R. Rege & Co., Mumbai

- Suhas Nawathe
 Dy. Director Membership
- Shalini Singh
 Sub-Editor IEEMA Journal
- Ajay Mahajan Head – Trade Fairs
- Niharika Jaiswal
 Head Finance & Accounts
- Anita Gupta Director – Training
- Reema Shrivastava
 Director International Business Division & SME
- Naveen Upreti
 Asst. Director Operations (Product Divisions, State Functions & Membership)
- Vivek Arora
 Sr. Executive Officer Product Divisions
- Jitendra Kumar Rajput
 Executive Officer Finance & Accounts
- Kailash Chandra Pandey Executive Officer - Finance & Accounts
- Anamika Taneja
 Manager Corporate Communications & PR

KOLKATA

- Subhajit Dasgupta
 Sr. Executive Officer & State Head,
 Bihar, Jharkhand & West Bengal
- Partha Pratim Mitra Executive Officer
- Bharti Bisht Haryana, Himachal Pradesh & Punjab
- K. Seetharaman
 Karnataka, Kerala, Tamil Nadu
- Rajesh Parab Maharashtra
- Tarjani Patel
 Goa, Gujarat, Daman & Due
- Devesh Vyas Rajasthan
- Mohammad Irfan Parray
 Jammu & Kashmir
- Subhajit Dasgupta
 Bihar, Jharkhand, West Bengal
- State Bank of India, Bangalore, Mumbai
- The Oriental Bank of Commerce, New Delhi
- HDFC Bank, Mumbai, Delhi
- Tax Auditors: M/s. Sharp & Tannan, Mumbai
- Secretarial Consultant: M/s. V.N. Deodhar & Co, Mumbai



AatmaNirbhar BHARA

COMMITTEES AND SUB-COMMITTEES FOR THE YEAR 2019-2020

Advisory Committee for Investment & Audit:

Mr. R.D. Chandak Mr. Chaitanya Desai Mr. Adesh K Gupta

HR and Administration Committee:

Mr. R K Chugh – President Mr. Vipul Ray – Sr. Vice President Mr. Rohit Pathak – Vice President Mr. Ajit Singh Chouhan -Invitee Mr. Sunil Singhvi Mr. Vineet Kaul Mr. Sunil Misra

Advisory Committee for IEEMA Journal

Mr. Mustafa Wajid, MD & CEO Mr. Naveen Kumar, Head – Corporate Centre Mr. Vipul Ray, MD Mr. Vikram Gandotra, GM (Mktg.) Mr. Purnendu Choubey, VP Mr. Mitul Thakkar Mr. A.S. Subramaniyan Mr. Sunil Misra, Director General

Technology & Innovation Committee

Mr. Venkat Garimella, VP Strategy & Alliance Mr. Mustafa Wajid, MD & CEO

CSR Committee

Mr. Vipul Ray - Chairman Mr. Somesh Sehgal Mr. Mathew Cherian Mr. Harish Agarwal Mr. Rohit Pathak Mr. Venkat Garimella

Economic & Taxation Committee

Mr. Yogendra Agarwal, Chief Financial Officer & Vice President, Finance, Bharat Bijlee Limited
Mr. Supushpa Ch Kaushal, Head Business Development –North, Power Transmission & Distribution, L&T Ltd
Mr. Adarsh Jain, General Manager (Finance / Commercial), KEI Industries Ltd.
Mr. P. Ramakrishnan, Past Chairman, E&T Committee, Chief Financial Officer, L&T Technology Services Limited
Mr. G S Sharma, Past Chairman, E&T Committee & Consultant (Taxation) , L&T – MHI Boilers Pvt. Ltd.
Dr. (Mrs.) Jaya Sathe, Managing Director, Gilbert & Maxwell Electricals Pvt Ltd
Mr. Rajeev Aggarwal, Chief Financial Officer, KEC International Limited
Mr. Ganesh Tawari, General Manager (Finance), Emco Limited
Mr. Sudhir Zutshi, Head – Government Affairs India, Underwriters Laboratories
Mr. P. Sridharan, Sr. Manager (Indirect Taxation), Siemens Ltd.

XV HTA 🕰



Economic & Taxation Committee

Mr. Anand Thakur, Sr. Manager (Commercial), KEI Industries Ltd
Mr. I. C. Thakur , DGM (Indirect Taxes), Apar Industries Ltd.
Mr. Sanjay V Desai, General Manager – Taxation, KEC International Ltd
Mr. Narendra Goliya, CMD, Rishabh Instruments
Mr. Shrikant P Parikh, Partner, Rajesh & Company Hardchem Electronics
Mr. Ankit Agarwal, Director, RMC Switchgears
Mr. Vinayak Shirsat, VP – Accounts & Taxation, Ravin Infraprojects Pvt Ltd
Mr. Rajib Nayan Chaudhary, Dy GM – Mktg, CG Power and Industrial Solutions Ltd
Mr. Ajeet K. Pandey, Dy. General Manager – Taxation (South Asia), KEC International Ltd

Representation on External Bodies For the year 2019-20

Name of Committee	Representative 2019-20
Governing Body of Central Power Research Institute	Mr. R. K. Chugh
R&D Committee of Central Power Research Institute	Mr Mustafa Wajid
Development Council for Heavy Electrical & Allied Industries (DCHEAI)	Mr. Vipul Ray
	Mr. Manish Agarwal
Governing Council of National Power Training Institute (NPTI)	Mr. Venkat Garimella
Governing Body of Quality Council Of India	Mr. R. K. Chugh
Managing Committee of ERDA	Mr. Vipul Ray
	Mr. Rohit Pathak
	Mr Sunil Singhvi
Indian National Committee (INC IEC)	Mr. Sunil Singhvi
Governing Council of MSME-Technology: Development Centre	Mr. Samir Kaji
CII National Committee on 'Capital goods and engineering"	Mr. R.K. Chugh
	Mr. Manish Agarwal
CII – ASCON	Mr R. K. Chugh
	Mr. Vipul Ray
Power Sector Skill Council – Central Electricity Authority	Mr. Venkat Garimella
National Council of Confederation of Indian Industry	Mr. R.K. Chugh
Bureau of Energy Efficiency	Mr. Ashok Kulkarni
Central Electricity Authority	Mr. Rohit Pathak
	Mr. Manish Agarwal
Bureau of Indian Standards	Mr. Vipul Ray



AatmaNirbhar BHARAT

IEEMA Leadership



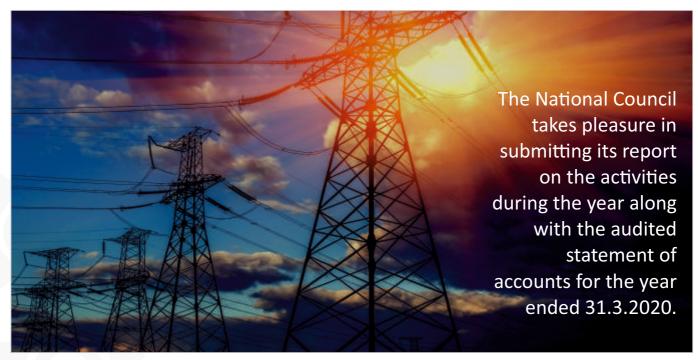
CONTENT







Report of the National Council to the Members



Following meetings of the Council were held in the year 2019-20

Meetings of the Council		
Sr. No.	Date	Venue
1	15th April 2019	Vadodara
2	31st May 2019	New Delhi
3	13th July 2019	Bhubaneswar
4	17th September 2019	Mumbai
5	15th October 2019	Bangalore
6	30th November 2019	New Delhi
7	28th February 2020	Neemrana

MEMBERSHIP

Ordinary Members

During the year 51 companies joined IEEMA as ordinary members. 10 member companies resigned. Details of new members are as follows:

- 1. D. K. Polymers
- 2. Genus Electrotech Ltd.
- 3. GSP Electronics Pvt.Ltd.
- 4. Hulasi Metals Pvt. Ltd.
- 5. Laxmi Fasteners
- 6. Nidec Industrial Automation India Pvt. Ltd.

- 7. P2 Power Solutions Pvt. Ltd.
- 8. Permanent Magnets Ltd.
- 9. Royal Fasteners
- 10. Veer Electronics
- 11. Maple Impex

- 12. Servomax Limited
- 13. Shashwat Cleantech Pvt. Ltd
- 14. Shivpriya Cables Pvt. Ltd.
- 15. Vishvas Power Engg. Services Pvt. Ltd.
- 16. Accurate Industries
- 17. Everest Cables & Connectors Pvt. Ltd.
- 18. Gruner India Pvt. Ltd.
- 19. Inspros Engineers Pvt. Ltd.
- 20. Jamshedpur Utilities and Services Company Ltd.
- 21. Khandelwal Cables Ltd.
- 22. MRM Procom (P) Ltd.

AatmaNirbhar BHAF

- 23. Quantaplast Polymers P. Ltd.
- 24. Radiant Chemtech Pvt. Ltd.
- 25. Akshay Insulated Conductors
- 26. Bhagyanagar India Limited
- 27. Chintamani Lamination
- 28. Crux Power Pvt. Ltd.

- 29. Ess Ell Cables Company
- 30. Indo East Corporation Pvt. Ltd.
- 31. Kapoor Industries
- 32. MMTC-PAMP India Pvt. Ltd.
- 33. S. V. R. Electricals (P) Ltd.
- 34. Veera Vahana Udyog Pvt. Ltd.
- 35. Alex Electricals
- 36. Maven Automation
- 37. Shiv Bajrang Industries
- 38. Singhi Infrapower Projects Pvt. Ltd.
- 39. ABPS Solution Pvt. Ltd.
- 40. Billtech Electricals Pvt. Ltd.
- 41. Eppleton Engineers Pvt.Ltd.
- 42. Feedback Energy Distribution Co. Ltd.
- 43. Gourav Energen India (P) Ltd.
- 44. Indtech Capacitors (India)
- 45. Kasa Anlagen India Pvt. Ltd.
- 46. Magnewin Energy Pvt. Ltd.
- 47. Pacemaker Solutions
- 48. Pasondia Cables Pvt. Ltd.
- 49. Precicraft Components India Pvt. Ltd.
- 50. Progressive Meters Pvt. Ltd.
- 51. Shakti Pumps (India) Limited

The number of Ordinary Members at the end of the financial year stood at 654, a net reduction of 5 members resignation from membership.

Associate members:

During the year 41 companies joined IEEMA as Associate members. 7 Member company resigned. Details of new members are as follows:

- 1. Bajrang Wire Products (India) Pvt. Ltd.
- 2. G. K. Xianghe Electricals Pvt. Ltd.
- 3. GIC Insuflex Conductors Pvt. Ltd
- 4. Global SPS
- 5. Micro Engineering Corporation
- 6. Miracle Cables (India) Pvt. Ltd.
- 7. Dowells Cable Accessories Pvt. Ltd.
- 8. Next Gen Equipments Pvt. Ltd.
- 9. Omicron Energy Solutions Pvt. Ltd
- 10. Orient Electric Limited
- 11. Rishabh Industries
- 12. Shavison Electronics Pvt. Ltd.
- 13. Siddhi Electrotech Cables Pvt. Ltd.
- 14. Sterling India

- 15. Sugi Systems & Controls
- 16. Uni-Tech Automation Pvt. Ltd.
- 17. Neha Constructions
- 18. Ruma Isolator Company
- 19. Thakur Electricals & Engineers Pvt. Ltd.
- 20. Vikas Cable Company
- 21. Crystal Cable Industries Ltd.
- 22. D. J. Electro Controls
- 23. Khandelwal Polymers
- 24. Ranjit Singh & Company LLP
- 25. Saini Industrial Corporation
- 26. Bhilai Conductors (P) Limited
- 27. Chanda Electrical Industries (Prop. S. Foam India Pvt. Ltd.)
- 28. Instrument Transformers
- 29. Kapil Cables Pvt. Ltd.
- 30. Prathima Infrastructure limited
- 31. Shree Ridhi Sidhi Industries
- 32. SMA Power Control Pvt. Ltd.
- 33. Twin Engineers Pvt. Ltd.
- 34. Unistar Metals Pvt. Ltd.
- 35. Vidya Metal Mfg. Co. Pvt. Ltd.
- 36. Balaji Switchgears Pvt. Ltd.
- 37. SGB Transformers India Pvt. Ltd.
- 38. JBS Enterprises Pvt. Ltd.
- 39. Om Technical Solutions
- 40. Macedon Vinimay Pvt. Ltd.
- 41. R.Ratilal & Co.

At the end of the year, Associate Membership stood at 220, a net reduction of 7 member company due to resignation from membership.

Institutional Membership

During the year 4 Institutes joined IEEMA as Institutional Members.

- 1. Chandigarh University
- 2. Abacus Institute of Engineering & Management
- Vishwaniketan's Institute of Management, Entrepreneurship & Engg Technology (VIMEET)
- 4. Lalji Mehrotra Technical Institute

At the end of the year, Institutional Membership stood at 7

Membership Position

-2- || 🏹 🛋 🦍

The total IEEMA membership at the end of the financial year stood at 890.





IEEMA – Annual Convention and 72nd Annual General Meeting



Access to reliable, affordable electricity is a key driver of economic growth in modern economies. The power sector, once a predictable and slow-moving industry, is now a complex system undergoing rapid transformation. Countries are in various stages of reforming and transforming their power sectors to better incorporate modern technologies, assure reliability and affordability, reduce harmful air emissions, meet a wide range of environmental goals, and achieve critical developmental objectives. Joining hands with the Government of India in this process, IEEMA themed its Annual Convention as 'Transformative Reforms'.

The Convention was inaugurated by Mr Subhash Chandra Garg, Secretary, Ministry of Power alongwith Mr Ajoy Mehta, Chief Secretary of Maharashtra in the presence of Mr Rahul Tongia, Fellow, Brookings India and Mr Ashish Khanna, President – Tata Power Renewables Energy and CEO& MD, Tata Power Solar Systems. The Convention witnessed the presence of around 270 delegates from the Electrical equipment Industry. The implementation of the various reform measures in India has given immense opportunities to the countries of the world to come and invest in India and promote bilateral trade and technology. The inaugural session was followed by another interesting session named Transformative reforms in the power sector moderated by Mr RK Chugh, President Elect, IEEMA. The panelist were Mr Subhash Chandra Garg, Secretary, Power, Govt. of India, Mr Ajoy Mehta, Chief Secretary, Maharashtra, Mr Rahul Tongia, Fellow – Brookings India and Mr Ashish Khanna – President - Tata Power Renewables Energy and CEO& MD, Tata Power Solar Systems.

The Convention was followed by the 72nd IEEMA Annual General meeting. Mr. Harish Agarwal, President, IEEMA presented a report on the activities during the preceding year.

IEEMA felicitated BCH Electric and CTR Manufacturing Industries Ltd for completing 50 years as IEEMA Member

IEEMA also recognized Ms. Pooja Tawte for her long and dedicated service to the Association of over 25 years and presented a memento as token of appreciation.

A Memento was presented to Mr. Harish Agarwal, President on behalf of the National Council and members of the Association in appreciation of his leadership and unstinted contribution to the association and the difference that he has made to add value to membership. He was also presented with a Portrait and photo album of memoirs of the 'Year gone By'.

IEEMA NATIONAL COUNCIL MEETING

The Executive Council met on Seven occasions during the year 2019-20

The First Meeting of National Council Meeting was held on 15th April 2019 at Vadodara under the chairmanship of President, Mr. Harish Agarwal. The meeting started with Mr. Sunil Misra, Director General, briefing EC members on the activities of IEEMA that had happened between the last EC meeting and this meeting. Council approved change of name of Capacitor Division as Capacitor and Power Quality Division. Council approved change of name of IEEMA representative in Indian Newspaper Society. Members discussed about proposed changes in Memorandum of Articles and agreed to put up in the next AGM/EGM for final approval and ratification by the General Body. A proposal for evolution of PV formula for Solar PV System and Energy Meters have been reviewed and approved by the Council. There were also presentations and interactions with Mr. Chetan Lulla, Manager – Information Utility, National E-Governance services Limited on Insolvency and Bankruptcy Code (IBC) and Information Utility Services, Mr. Satvinder Singh, General Manager – Technology & TID, NSIC on skill development of domestic electricians and welding etc. and Mr. Ritesh Kumar Singh, Economist on steel price trend and its impact. Mr. Anoop Tulsyan, Vice Chairman, Capacitor division also gave presentation on CAPACIT-2019.

The Second Meeting of National Council was held in on 31st May 2019 at New Delhi. President informed about interactive meetings with two eminent guests; Shri Sanjaya Singhal, Chairman, Secure Meters and Shri Sanjeev Sanyal, Principal Economic Advisor, Ministry of Finance. Apart from the discussion on regular agenda points, interactions with Shri Sanjaya Singhal, Chairman, Secure Meters on Enhancing Global Footprints for Indian Companies and Shri Sanjeev Sanyal, Principal Economic Advisor, Ministry of Finance on Economic & Financial Challenges were also took place. There was a brief of IEEMA sponsored (under CSR) first batch is undergoing domestic electrician training, under the Power Sector Skill Council (PSSC) at the centre for Pradhan Mantri Kaushal Vikas Yojana at Mandir Marg, New Delhi.

The Third Meeting of National Council was held on 13th July 2019 at Bhubaneswar. President briefed members about the interaction with Mr. Sanjeev Sanyal and members felt that Indian electrical equipment industry to be treated as capital goods industry and not as a power sector by the leading financial institutions and banks. Members reviewed Ministry of Power 5 years Vision plan. IEEMA members contribution in restoration of electrical infrastructure of Orissa affected due to 'Fanni' cyclone was well appreciated by all stakeholders and utility officials have informed that the practices and services was at par with overseas suppliers. Members were briefed about the proposal of E-highway and Secretary MSME Ministry expressed support of IEEMA to develop the concept note.

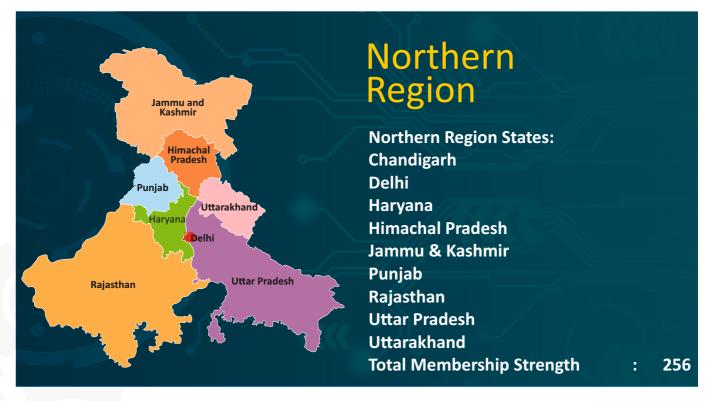
The Fourth meeting of National Council was held on 19th September 2019 at Mumbai. Mr. R.K. Chugh President-2019-20 welcomed all newly elected National Council members to the first meeting of the Council. He thanked the members for the confidence and trust shown and pledged to carry forward the Association's initiatives. Revision of PV Formulae for cable were discussed and approved. Council discussed and decided to structurally strengthen the regional committees which will have representations of all the concerned states by having atleast two active members from each states for driving various activities of the regions. Mr. Vipul Ray, Sr. Vice President informed that he has taken responsibility as Mentor for strengthening the divisional activities and Mr. Rohit Pathak, Vice president took mentorship for Regional/State committees.

The Fifth meeting of National Council was held on 15 October 2019 at Bangalore. Members discussed and decided to organize DISTRIBUELEC 2021 in Mumbai sometime end of February 2021. 4 topics were emerged for focused attention to drive. A white paper on G, T&D sector to be prepared. E mobility and charging infrastructure division was formed and started functioning. RM and EIM division made presentation of their division and sector.

The Sixth Meeting of IEEMA National Council was held on 30th November 2019 at New Delhi. Apart from the regular discussions, members discussed on the need to develop the Public Policy Cell and International Business Division as Centre of Excellence. Members also discussed about alternative to L1 suggested that the alternate system should address all types of possible cases and issues. There was discussion on a Training cum Knowledge Centre at Vadodara with GETCO & ERDA support and members appreciated the idea and agreed to support for the same. There was discussion with Mr. Paritosh Singhal, Addl. CEO representing Government E-Market Place Portal on GeM on E-procurement. Members also discussed about alternative to L1 and Strengthening of Testing Facilities as export strategy

The Seventh meeting of IEEMA National Council was held on 28th February 2020 at Neemrana. Apart from the regular agenda points, there were presentations by chairman of SME division, Distribution Transformers and Regional Chairmen. Members also discussed about new process for recommendation of membership application. Members also expressed concern on the decline of almost all sectors except LV Switchgear. It was decided to partner with Niti Ayog to organize conference on 'Goodbye L1'. All the regional committee chairmen made presentations on activities & Way forward. Members further discussed on International business division and public policy to convert in COE and appointed new chairman and vice chair for IBD and decided to explore taking support of professional consultants for public policy.





Interface with Government and its Agencies

IEEMA had many meetings and interactions with the Government and its agencies during the year. Some of the major meetings have been mentioned below.

Meeting on Issues of Competitiveness of Indian Electrical Industry

On 10th April 2019, a delegation of IEEMA, comprising of Shri R K Chugh, Vice President; Shri Raj H Eswaran, Chairman; Shri Rohit Pathak, Member; Shri A S Subramaniyan, Member, Public Policy Cell; Shri Sunil Misra, Director General and Shri Sudeep Sarkar, Director, IEEMA called on Dr. Asha Ram Sihag, Secretary, Department of Heavy Industry, Government of India. The main point for discussions were replacement of Bank Guarantee with Insurance Guarantee, circumvention of Public Procurement (preference to Make in India) Order, Under-Utilisation of BTG capacities of domestic manufacturers, Cyber Security Threat to intelligent equipment installed in Smart Grid System etc.

On the same date, the delegation also called on Shri A K Bhalla, Secretary, Ministry of Power, Government of India. The discussion point were bottlenecks in participation of Indian electrical industry in Chinese Tenders, suggested reciprocal policy for mandatory testing of equipment in Indian laboratories, Under-Utilisation of T&D capacities of domestic manufacturers etc.

Meeting on difficulties in participation of Indian electrical industry in tenders floated by Chinese power utilities

On 10th April 2019, a delegation of IEEMA, led by Shri R K Chugh, Vice President, met Shri Manoj Kumar Bharti, Additional Secretary, Economic Diplomacy and States, Ministry of External Affairs. The main point for discussion was difficulties in participation of Indian electrical industry in tenders floated by Chinese power utilities and no reciprocal policy in India to check low priced imports of electrical equipment from China, without considering their life cycle cost.

Meeting on Omnibus Technical Regulation on Safety of Machinery

On 12th April 2019, Shri Sudeep Sarkar, Director, IEEMA attended a meeting called by the Department of Heavy Industry, Government of India, on Omnibus Technical Regulation on Safety of Machinery. The meeting was chaired by Smt. Sukriti Likhi, Joint Secretary, DHI and attended by representatives of major Industry and Trade Associations and the Bureau of Indian Standards. The joint secretary asked the participation organisations to study the draft Technical Regulation, sensitize the industries and send suggested changes / inputs.

Meetings on Inverted Duty Structure

On 23rd April 2019, Shri Vipul Ray, Vice President, Shri Sunil Misra, Director General and Shri Sudeep Sarkar, Director, IEEMA, called on Shri G G Mitra, Chief Advisor (Cost) and Shri Mahendra Kumar, Consultant, Tariff Commission, Under Ministry of Commerce and Industry, Government of India, regarding inverted duty structure in the manufacturing of Cable Terminal and Connectors. AatmaNirbhar BHARA

Again on 26th June 2019, Shri Sudeep Sarkar, Director, IEEMA, attended a meeting called by Shri Mahendra Kumar, Consultant, Tariff Commission, regarding the study of inverted duties in the manufacturing of Cable Terminals and Connectors. IEEMA shared the details of manufacturers of this industry. Tariff Commission is in the process of getting detailed information from the manufacturers for conducting this study.

Meetings on Pre-Budget Issues

On 23rd May 2019, a delegation of IEEMA Economic and Taxation Committee, led by then Chairman, Shri Adarsh Jain, attend the Pre-Budget Meeting with the Ministry of Finance, Government of India. The meeting was chaired by Shri P K Das, Chairman, Central Board of Indirect Taxes and Customs (CBIC). IEEMA submitted its recommendation on Budget 2020-21 to the Ministry.

On 3rd December 2019, a delegation of IEEMA Economic and Taxation Committee, led by Chairman, Shri Yogendra Agrawal, attend the Pre-Budget Meeting with the Ministry of Finance, Government of India. The meeting was chaired by Shri P K Das, Chairman, Central Board of Indirect Taxes and Customs (CBIC), in presence of Member (Budget) and Joint Secretary (Tax Research Unit) and a few officials from Central Board of Direct Taxes. IEEMA made a presentation on the core issues of the industry on Budget 2020-21.

Interactive Meeting on Economic Policies and Taxation Issues

On 31 May 2019, an interactive meeting was organized for IEEMA members with Shri Sanjeev Sanyal, Principal Economic Advisor to the Government of India, Ministry of Finance. Various economic issues and concerns of the electrical industry were raised during the meeting, such as High Rate of Interest, Delayed Payments, Non-Availability of IGST Refund Amount, reduction in basic customs duty of essential raw materials, Non-equitable benefits to domestic industry for project imports under Chapter 98, Adverse impact of Reverse Auction and L1 concept for Government Procurement and NIL duty imports of certain items broadly classified under exemption Notification No. 25/2005 – customs etc. Plausible resolution of these issues were also discussed and represented by IEEMA.

Meeting on Issues of Capital Goods

On 19th June 2019, Shri R. K Chugh, Vice President, and Shri Sudeep Sarkar, Director, participated in the 1st Meeting of CII National Committee on Capital Goods and Engineering 2019-2020. The meeting was chaired by Dr. Nalin Singhal, Chairman and Managing Director, Central Electronics Limited. There was an interaction with Smt Sukriti Likhi, Joint Secretary, Department of Heavy Industry, at the end of the meeting. IEEMA represented the following issues of the electrical industry to the Joint Secretary, DHI, which include, hardships of the electrical industry, especially the SMEs, on account of delayed payments by utilities, non-equitable benefits to the domestic electrical industry due to concessional duty imports (at 5%) under Chapter 98, reciprocal policies to stop imports of equipment from China, whereas, it is difficult for Indian companies to supply to China and no binding on the State Utilities to follow the Public Procurement (Preference to Make in India) Order, 2017, since electricity being a concurrent subject etc.

Meetings on Public Procurement (Preference to Make in India) Order of the Ministry of Power

On 25th June 2019, Shri Sudeep Sarkar, Director, IEEMA, attended a meeting called by Smt. Vandana Singhal, Chief Engineer, Central Electricity Authority. The meeting was called to discuss suggested amendments by the Ministry of Power, in the draft Public Procurement (Preference to Make in India) Order of the Ministry of Power on distribution segment. IEEMA Divisions is submitted their comments on the suggested amendments.

On 24th January 2020, Shri Raj Eswaran, Chairman, IEEMA Public Policy Cell, Shri J Pande, Deputy Director General and Shri Sudeep Sarkar, Director, IEEMA, attended a meeting called by Shri Amit Vardan, Joint Secretary, Department of Heavy Industry, Government of India, on Public Procurement (preference to Make in India) Order 2017.

The Joint Secretary referred to clause 3 (a) of the Order mentioning about a threshold of INR 50 lakh, below which, only local suppliers are eligible to bid. Shri Raj Eswaran submitted that the threshold of INR 50 lakh is very low for 100% Government procurement from the domestic electrical industry for the Power Sector. For example, procurement of a single Power Transformer or Energy Meters in bulk would incur much more cost than the said estimated threshold of 50 lakh. He requested that the Government to consider increasing this threshold to 500 lakh for the electrical equipment / Power Sector.

On 17th February 2020, Shri R K Chugh, President, Shri A S Subramaniyan, National Executive Council Member, Shri Sunil Misra, Director General, along with some IEEMA members, attended the Forum on Public Procurement for Make in India. Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry and Railways, chaired the forum.

Shri R K Chugh, IEEMA President mentioned that for every manufacturing one of the major input is 'electricity'. There is a poor state of affairs in discoms, which are not financially vibrant and unable to make payments to their suppliers. Some measures were expected in the last Budget.

فيم والله في الله ع

-6-



Shri A S Subramaniyan participated as a panelists in the panel discussion on "Make in India through Public Procurement in Electronics & IT, Telecommunications, Heavy Equipment, Pharmaceuticals and Fertilisers".

Brain Storming Meeting on Vision Document for the Power Sector

The Ministry of Power, Government of India, conducted a Brain Storming session, on 1st July 2019, for preparing a Vision Document for the Power Sector for next 5 years.

Shri R K Singh, Hon'ble Union Minister of State (IC) for Power and New & Renewable Energy, Chaired the session. Shri A K Bhalla, Secretary, other Joint Secretaries in the Ministry of Power; State Energy Secretaries; Representatives of Central and State Power Utilities, along with Trade and Industry Associations, including IEEMA, also participated in the same. IEEMA was represented by Shri R K Chugh, Vice President, Shri Neeraj Nanda and Shri Sunil Singhvi, Executive Council Members; Shri Amit Gupta, Member, Renewal Energy Division; Shri Sunil Misra, Director General and Shri Sudeep Sarkar, Director, IEEMA.

The Brain Storming Session was conducted with the Vision of the Hon'ble Prime Minister of India to improve and reform the Power Infrastructure of the country, with the objectives of making the Power Utilities more economically viable and sustainable, in order to ensure 24×7 affordable and quality power supply.

IEEMA gave its inputs on these subjects.

Meetings on Regional Comprehensive Economic Partnership (RCEP)

The Department of Commerce, Government of India, convened a stakeholders consultation on Regional Comprehensive Economic Partnership (RCEP), on 22nd and 23rd July 2019, at Mumbai and Delhi respectively. Shri Piyush Goyal, Hon'ble Minister for Commerce & Industry and Railways, Chaired the Consultations. Shri Ramesh Chandak, past president and Shri Vijay Karia, Executive Council Member, led the delegation of IEEMA at Mumbai, while Shri R K Chugh, President led the delegation at Delhi. Trade and Industry Associations representing various product groups participated in the consultations, where India's offer of tariff lines were discussed. IEEMA submitted its inputs to the Government during the consultations.

On 10th July 2019, Shri Adarsh Jain, then Chairman, Economic & Taxation Committee; Shri Navendu Bhardwaj, Member and Shri Sudeep Sarkar, Director, IEEMA, participated in a Stakeholders Consultation on Copper, Aluminium and Zinc under the Regional Comprehensive Economic Partnership (RCEP) agreement. The session was chaired by Shri Sudhanshu Pandey, Additional Secretary, Department of Commerce, in presence of Shri Dammu



Ravi, Joint Secretary, Department of Commerce. IEEMA shared its inputs on application and demand of these raw materials in the electrical equipment manufacturing industry. Later, a representation was also submitted to the Government in this regard.

Post-Budget Interaction with Ministry of Finance

On 12th July 2019, Shri Adarsh Jain, then Chairman, Economic & Taxation Committee and Shri Sudeep Sarkar, Director, IEEMA, attended a Post-Budget interaction with Shri Subhash Chandra Garg, Secretary, Finance & Economic Affairs and Shri Atanu Chakraborty, Secretary, Department of Investment and Public Asset Management, Ministry of Finance. Macro-economics of the country and the thought process behind the budget were discussed during the interaction.

Meetings on Non-Tariff Barriers

On 25th July 2019, Shri Sudeep Sarkar, Director, IEEMA, attended a meeting called by Shri Bhupinder Singh Bhalla, Additional Secretary, Department of Commerce, Government of India, to discuss the Non-Tariff Barriers (NTBs) faced by the exporters, especially in the RCEP Countries. Representatives of industry associations participated in the meeting. IEEMA submitted its inputs to the Government on NTBs barriers faced by exporters in these countries.

On 6th August 2019, Shri Sudeep Sarkar, Director, IEEMA, attended a meeting called by the Department of Commerce, Government of India, to discuss domestic barriers and overseas barriers, including the Non-Tariff Barriers, in the engineering sector. Shri Bhupinder Singh Bhalla, Additional Secretary, Department of Commerce, chaired the meeting. IEEMA representative highlighted various domestic barriers faced by exporters while supplying their materials abroad.

Meetings on Strategies to Increase India's Exports

On 1st August 2019, a delegation of IEEMA Exports Division Members, Shri Sudeep Sarkar, Director, and Smt.



Reema Shrivastava, then Deputy Director, IEEMA, attended a meeting called by Shri Bhupinder Singh Bhalla, Additional Secretary, Department of Commerce, Government of India, to discuss the strategies to increase India's exports. Representatives of various industry associations and Engineering Exports Promotion Council participated in the meeting. EEPC made a presentation on the study made on promotion of exports. IEEMA submitted its inputs to the Government on promotion of exports and NTBs faced by the Indian electrical industry in other countries.

On 23rd August 2019, Shri Hardeep Singh Puri, Hon'ble Minister of State for Commerce and Industry, Government of India, called a stakeholders consultations on issues related to exports and enhancement of exports in the engineering sector. Shri Sudeep Sarkar, Director, IEEMA, attended the same, along with some member exporters. IEEMA presented certain overseas and domestic barriers faced by the electrical industry in exports. Shri Bhupinder Singh Bhalla, Additional Secretary, Department of Commerce, was also present in the meeting. IEEMA submitted the issues and recommendations discussed with the Hon'ble Minister.

Meetings on MSME

On 14th June 2019, Shri Ashutosh Jatia, then Chairman, SME Division, Shri Sunil Misra, Director General and Smt. Reema Shrivastava, Director, called on Shri Sudhir Garg, Joint Secretary, Ministry of Micro, Small and Medium Enterprises, Government of India, to discuss about the issues faced by SME members of Indian electrical industry.

On 6th August 2019, Shri Ashutosh Jatia, Chairman, SME Division, Shri Sunil Misra, Director General and Shri Uttam Kumar, Sr. Executive Officer, IEEMA met Dr. A K Panda, Secretary, Ministry of Micro Small and Medium Enterprises. IEEMA apprised Dr. Panda about the challenges in immediate implementation of Steel Quality Control Order 2019, issue of Cyber Security. IEEMA initiative on SME Clinique was also discussed, which will help the MSME members in availing consultancy services pertaining to Fund Raising, M&A, Bank Finance, Legal Matters, Estate Planning and Will, Wealth Management, Succession Planning and ERP Services.

Meeting on Cyber Security of Electrical Grids

On 13th August 2019, Shri Vikram Gangotra, Executive Council Member; Shri Sudeep Sarkar, Director and Shri Uttam Kumar, Sr. Executive Officer, IEEMA, attended a meeting called by Central Electricity Authority to discuss the imported electrical equipment vulnerable to security of electrical grid in the transmission sector. Shri Sandesh Sharma, Member (Planning), CEA, chaired the meeting. Powergrid and IEEMA were requested to provide list of imported items, vulnerable to embedded malware, which is being submitted.

Meeting on Structure of India's Import Basket and Policy Implications

On 20th August 2019, Shri Sudeep Sarkar, Director, IEEMA, attended a meeting called by the Department of Promotion of Industry and Internal Trade (DPIIT), Government of India, to discuss a position paper of DPIIT, regarding Structure of India's Import Basket and Policy Implications. Shri Shailendra Singh, Additional Secretary, DPIIT, chaired the meeting. IEEMA representative highlighted the impact of imports to the domestic electrical equipment industry and interventions required from the Government. Subsequently, IEEMA also submitted its representation on the matter.

Meeting to assess the feasibility of e-Highways

On 6th September 2019, a brain storming session was called by NITI Aayog, under Chairmanship of Shri Anil Srivastava, Principal Consultant & Mission Director. All Stakeholders such as representative of Ministry of Power, MoMSME, Ministry of Railways, CRRI, ARAI along with senior industry representatives were present in the meeting. Shri Mustafa Wajid, Chairman, IEEMA e-mobility division represented his views in the discussion. The crucial discussion points were on the voltage level of system, type of vehicles and possible route of pilot project. It was concluded that a report on cost analysis of the e-highway ecosystem having AC and DC power systems, including techno-commercial options for vehicles along with pros and cons of different options would be prepared in 6 to 10 weeks. The team would comprise representatives from all concerned stakeholders.

Meeting on Draft Industrial Policy

On 7th November 2019, Shri Sudeep Sarkar, Director, IEEMA, attended an interactive meeting with Shri A S Bhal, Senior Economic Advisor, Department of Promotion of Industry and Internal Trade (DPIIT) on Draft Industrial Policy.

Representative of IEEMA, represented the issue of delayed payments to the Indian electrical industry, many of which are small and medium enterprises, by Central and State Utilities, running into several crore of rupees, having its impact in the form of blocking of working capital. Moreover, the same has a cascading effect on the





outlook of banks and the financial institutions towards the industry.

Meeting with NITI Aayog on Competitiveness of Indian Electrical Industry

On 24th January 2020, IEEMA had a call on to Dr. Rajiv Kumar, Vice Chairman, Niti Aayog. Shri R K Chugh, President; Shri Sunil Kumar Singhvi, Member, National Executive Council and Shri Sunil Misra, Director General, IEEMA were the part of IEEMA delegation. Shri Neeraj Sinha, Adviser (S&T), Niti Aayog, was also present in the meeting.

The major points of discussions were delayed payments to the industry by the power utilities, replacement of L1 concept in Government procurement, replacement of Performance Bank Guarantee with Insurance Guarantee, Public Procurement (preference to Make in India) Order 2017, and incentive for innovation / patents etc.

Meetings on Trade Disruptions Opportunities for Indian Industries due to Covid 19

On 14th February 2020, Shri Sunil Misra, Director General, Shri Sudeep Sarkar and Smt. Reema Shrivastava, Directors, IEEMA attended a meeting called by Shri Anup Wadhawan, Commerce Secretary, Government of India, on the opportunities of Indian industries and any trade disruptions due to Corona Virus epidemic in China.

Shri Misra briefed about the likely opportunities of Indian electrical industry to supply to the domestic and the world markets which were captured by the Chinese companies and also the likely impact to domestic electrical industry in getting essential raw material supplies from China, such as, the Meters manufacturing industry.

On 18th February 2020, Shri Manish Agarwal, National Executive Council Member, Shri Sunil Misra, Director General, along with some IEEMA members, attended a session on Contextual Challenges in Supply Chain of Exports and Imports. Smt. Nirmala Sitharaman, Hon'ble Minister of Finance, Government of India, Chaired the session. Shri Debashish Panda, Special Secretary, Department of Financial Services, Ministry of Finance, conducted the session.

The session was convened to understand the trade disruptions of India due to the impact of Corona Virus in China and also the opportunities of therein. IEEMA DG mentioned about the predominance of Chinese supplies in Africa and South East Asia. It was requested to sensitize the Indian Missions in these regions and along with the industries associations to get market access of Indian products.

Meeting of Issues of Power and Renewable Sector

On 20th February 2020, IEEMA led a Roundtable discussion on 'Power and Renewables' at the DPIIT – ASCON Consultation Forum with Industry Associations. Shri R K Chugh, IEEMA President led this Roundtable. The perspectives of the stakeholders in the sector on the various aspects were taken on power generation, transmission, distribution and renewables to help both the government and the industry to undertake new endeavours for the growth of the industry. To crystalize this exercise a Report-Back Session was held in the evening with Shri Piyush Goyal, Hon'ble Minister for Commerce & Industry and Railways.

Meetings on Replacement of L1 Concept of Government Procurement

On 29th November 2019, Shri Sunil Misra, Director General, IEEMA, called on Shri Sharad Kumar, Vigilance Commissioner, Central Vigilance Commission to discuss the L1 concept of procurement by the Government utilities, without considering the life cycle cost of the equipment and also the threat to the electrical grid by installation of foreign equipment, which are intelligent and can be remotely controlled by foreign suppliers.

On 4th March 2020, IEEMA co-hosted a Seminar on 'Goodbye L1 – a Route to Sustainable Engineering Development" with NITI Aayog, ICT and Consulting Engineers Association of India. Shri Nitin Gadgari, Hon'ble Minister of Road Transport and Highways, Micro, Small & Medium Enterprises, was the Chief Guest. L1 is the most common practice in the Government procurement for awarding contracts. Many a times, the life cycle cost is not considered and the order goes to the lowest bidder resulting in the quality suppliers lose business due to cutthroat prices competition. The L1 system has also led to poor or delayed execution with cost and time over runs and arbitrations. This practice is one of the major reasons of lack or R&D and product innovation in our industry.

The objectives of the Seminar was to identify alternatives mechanism to L1 being practiced globally, in order to influence the Government for bringing in policy change in public procurement. Shri Neeraj Nanda, Member, National Executive Council of IEEMA was one of the panellists in the Seminar, who presented the point of view of the electrical industry.

Meetings on State of Electrical Industry

On 3rd December 2019, Shri Sunil Misra, Director General, IEEMA, called on Shri Amit Vardan, Joint Secretary, Department of Heavy Industry, Government of India, to discuss the state of Indian electrical industry and



various issues faced by the industry.

On 28th March 2020, Shri R K Chugh, President, and Shri Sunil Misra, Director General, IEEMA, attended a web meeting with Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, Government of India on the state of industry and the suggested interventions by the Government during the lockdown period because of Covid 19 pandemic.

Engagement with NRC Members



Northern Region Committee conducted 3 regional meetings of the core committee after the formation in November 2019, for discussing the regional level issues and events.

Engagement with State Members:

J & K - IEEMA NRC has recently taken an initiative and conducted an interactive session with the J & K Members via web and addressed their issues.

Following Chapter Meetings were done in Northern Region:

Chandigarh Chapter – 4 meetings - Chandigarh Chapter organized 4 membership meets for discussing the regional level events.



Rajasthan Chapter – 2 meetings - Interacted on regular basis with members in the region via Members meetings, personal meeting or over phone. Have discussed about current and future activities in Rajasthan and all over India.



Engagement with Key Utilities:



IEEMA NRC has been very proactively engaged in interacting with the State Utilities. Many representations as well as different IEEMA events are being promoted in all the State utilities. Following are few key interactions:

- Meeting with Principal Secretary-Energy & Chairman –DISCOMS -RVPNL – Shri Kunji Lal Meena.
- Meeting with Chairman UPPCL was held with Chairman- NRC & Director General- IEEMA. This was regarding shortcomings in the sampling methods of discoms resulting in blacklisting of a few members of the industry.
- Meeting of Vice Chairman- NRC with Shri Satish Mahana- Minister Industry
- Meeting with Commissioner Industries –Shri Muktanand Agarwal for participation of Rajasthan as state Partner.
- Regarding blacklisting of vendors.

hta 🏠

- Meeting between Director Projects, UHBVNL and Chandigarh Chapter Members
- Meeting between Insulator division members and MD, UPPTCL to discuss on the issue of quality and delivery of the products
- Meeting between Insulator division members and Principal ED, RDSO to discuss on the issue of old aged specifications of acceptance tests.



 IEEMA NRC organized a Session on Succession Planning and Exit Planning for the committee members as well as for Rajasthan Members

Railway Vendor Meet:

To strengthen the relationship with Railways IEEMA Northern region has participated in vendor meets with Railways at the following Places:

Chandigarh, Ludhiana, Patiala, Rajasthan, Lucknow



Strengthening the relationship with other Associations & stakeholders:

IEEMA meeting with Federation Chambers of Jammu & Kashmir



 IEEMA participation in training arranged by BEE & PEDA as a speaker at Chandigarh



• IEEMA participation in different Industry Conferences organized by CII, ASSOCHAM, FICCI at Northern States.

Curtain Raiser of ELECRAMA 2020:

IEEMA NRC organized 2 Curtain Raisers for promoting ELECRAMA 2020

1) DELHI







2) RAJASTHAN:

ELECRAMA 2020 Curtain Raiser held on 23rd December 2019 with participation of more than 300 Delegates from industries, Traders and utility officials. Managing Director of JVVNL - Shri. A K Gupta and MD of JDVVNL- Sh. Avinash Singhvi were also present as chief guests for the event.



Interaction with other Associations:

Interacted on regular basis with few associations like CII, ERDA, Mohali Industries Association, Panchkula Chambers, Parwanoo & Baddi Association, Ambala Chambers, Industries and Commerce Ludhiana, PHD Chambers, VKI Association, Rajasthan Solar Association, Jhotwara Industry Association, Sitapura Industry Association, Malviya Nagar Industry Association, Traders Association for various IEEMA events, workshops and data collection.

Initiative for Academia Member

IEEMA Northern Region is actively & strategically working on Academia & Industry relationship:



Educational tours: Visit to Nabha Power Plant



Factory visits: Visit to members factory for practical training



Interactive sessions: Interaction between Members, Utility Heads and IEEMA

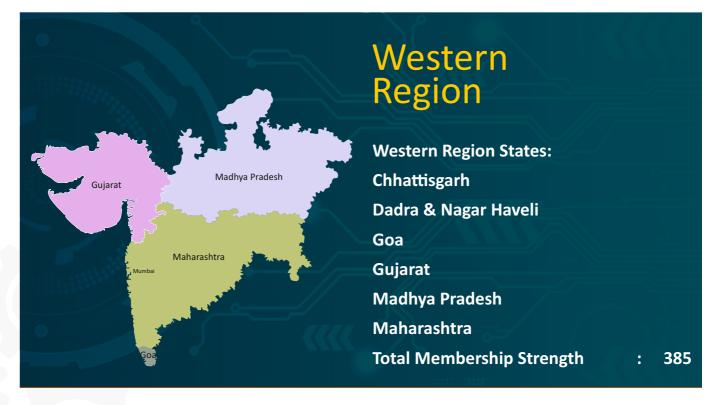






HY 12-





1st Western regional committee meeting for the year 2019 -20 was held on 10th February 2020 in Ahmedabad attend by 30 Western Region Committee Members.

Maharashtra:

On 9th July 2019, IEEMA in association with SKP Group organized a session on **"Union Budget 2019 – Analysis"** held at SKP Group's Office in Urmi Axis, Mahalakshmi, Mumbai. Mr.Siddharth Desai, Chairman, Western Region Committee–IEEMA, extended a warm welcome to the delegates. Mr.Manish Shah, Senior Partner–SKP began the session with his presentation on budget provisions on direct taxation. Also, Ms.Rebecca Pinto, Senior Manager, Indirect Taxation– SKP presented budget highlights on indirect taxation.

This was followed by free and insightful Panel discussion among distinguished speakers in the Panel comprising of Mr.Ramesh D. Chandak, Past President–IEEMA & Chief of RDC Business Advisory, Mr.Yogendra Agarwal, Vice-Chairman-Economic & Taxation Committee & CFO/Vice President–Finance, Bhart Bijlee Ltd., Mr. Jigar Doshi, Partner & Executive Director–Indirect Taxation, SKP and Mr. Manish Shah, Senior Partner-SKP. The panel discussion was moderated by Ms. Rebecca Pinto seeking insights from panel members on the possible impact of budget provisions on the industry and on the economy as a whole. The delegate feedback was over whelming in terms of simplified understanding of government's objective through budget announcements.

On 17th Feb, 2020 A PVC training for MSETCL 4 zone organised by IEEMA at RTC, Padghe near Bhiwandi. There

were 58 officials from Vashi, Kalwa, Thane and Mumbai zone of MSETCL attended this training. The training was conducted by Mr. Ninad Ranade, Director PVC and supported by Ms. Anuja Korgaonkar, Sr. Executive, IEEMA PVC department. Training was very interactive and the head of the RTC Mr. Sandip Kalantri felt this kind of training IEEMA should organised in all zone of MSETCL.

Interactive sessions & Meetings:

On 7th June, 2019, IEEMA Western region organised an Interactive programme on Emerging Business Opportunities in T&D and RE Sector followed by Buyer Seller meet between OEMs, EPC and SME held on Friday, 7th June, 2019 at Nashik Engineering Cluster Nashik.

This was a first standalone Buyer Seller meet which was done with OEMs and EPC contractors only and SMEs from WR. The 1st session was attended by more than 140 participants including 14 buyers organisation such as ABB, Adani Electricals, Ashoka Buildcon, Siemens Ltd., Stelmec, L&T, Legrand, Lucy Electricals, Godrej & Boyce, Suzlon, KEC, CG, Polycab and TDK.



AatmaNirbhar BHARAT

The 2nd session started with buyer sellers meeting between 25 sellers and 14 buyers. There were approximately 300 meetings held with good opportunities to the buyers and sellers organisation.

On 17th Aug, 2019, Shri. Anil Saboo, Chairman ELECRAMA 2020 visited Nagpur for personally extending the invitation to Hon'ble Minister for MSME Shri. Nitin Gadkari. The visit was mainly to participate in the Labhu Udyog Bharti All India Conclave of National, State and District level Associations of MSI on the theme "Holistic Policy for MSI Promotion, Preference and Progress".



Mr. Saboo also spoke in the session for National, State and District Level Associations of MSI he strongly presented the need for giving support and opportunities to the medium and small organisations as this organisation contribute the major part of the Electrical Industry. During the interaction the invitation also extended to Shri. Arjun Ram Meghwal, Hon'ble Union Minister of State in Ministry of Water Resources, River Development & Ganga Rejuvenation and Parliamentary Affairs in Government of India.

On 21st Aug, 2019. A Turkish Delegation comprises of Board members of Turkish Electro Technology Exporters' Association (TET) visited IEEMA Mumbai office. The objective of this visit is to plan for their upcoming delegation in India in the month of November, 2019 to enhance bilateral economic relations and cooperation with other countries in electrical-electronics industries. The Turkey delegation was led by Mr Güven UCKAN Ph.D. Chairman of the Board, TET, Mr Zafer ARABUL, Member of the Board, TET, Mr Ali KALDIRIMCI, Assistant Manager, TET, Ms Buket AKTAŞ, TET Assistant Expert, TET. From IEEMA the meeting was attended by Mr. Sunil Misra, Director General, Mr. Anil Saboo, Chairman, ELECRAMA 2020, Mr. Ajay Mahajan, Head Trade Fairs (through webinar) Mr. Ramesh Chandak, Past President, Mr. Siddharth Desai, Chairman Western Region, Mr. Shashi Amin, Chairman, Cable Division, Mr. Nishan Chaniyara, Manager, Product Management Electrical Standard

Products, L&T Electrical & Automation, Mr. Ninad Ranade, Director, PVC and Statistics Mr. Siddharth Desai briefed the delegation about IEEMA and its activities. Mr. Anil Saboo, Chairman ELECRAMA informed his interaction with the TET board members and other association members during his visit to Turkey. He appealed them that since the Turkey and India had a great bilateral trade relationship they should support and visit ELECRAMA 2020. He also informed them that IEEMA will lend all the support to the Turkey delegation when its visit India in November.

The officials were happy to meet the IEEMA team and promised that TET and IEEMA team will work very closely to promote the trade, joint ventures and technology transfer in near future and will happy to sign a MoU to promote the respective activities.

On 28.09.2019, meeting organised by Dy. Executive Engineer Er. Avinash Sanap from MSEDCL held at MSEDCL SEA Society Office, Aurangabad. The meeting was attended by 10 to 12 top manufacturers and some of the MSEDCL officials from Aurangabad.

The objective of this meeting was to provide manufacturers of Aurangabad on insights on the various activities during ELECRAMA 2020, so that they can plan a strong delegation at ELECRAMA 2020. Also the manufacturers and officials from MSEDCL felt a need of organising a technical training or conference in association with IEEMA for the Aurangabad industry in near future.

Members were very excited about their visit to ELECRAMA and also seek IEEMA help in organising a conference or training programme at Aurangabad.

On 7th Nov, 2019, A Turkish Delegation comprises of Board members of Turkish Electro Technology Exporters' Association (TET) visited Mumbai. The visit comprises of Seventeen organization to promote the trade, joint ventures and technology transfer in India. There were B2B meetings held to promote the bilateral trade between the visiting organisation. IEEMA promoted their B2B meeting invitation amongst the members. There were few IEEMA members organisations attended the B2B meeting.

Mr. Siddharth Desai made the ELECRAMA 2020 presentations to the visiting delegation and also appealed them to participate in the exhibition. He also briefed them about various collocated events and conference and requested them to visit the world largest T&D exhibition. Mr. Desai requested TET board members to disseminate the ELECRAMA information to their member organisations and get maximum participants as an

ieence vour link to electricity

exhibitors and visitors. The officials were happy to meet the IEEMA team and promised that TET and IEEMA team will work very closely to promote the trade, joint ventures and technology transfer in near future and will happy to sign a MoU to promote the respective activities.

On 15th Feb 2020, IEEMA Lift division members met Mr. H. D. Parab, Dy. CFO, Mumbai Fire Brigade at his office. The meeting was mainly to do a follow up of the earlier representation made to Dr. Rahangdale, Chief Fire Officer, (CFO) Mumbai Fire Brigade. The division members is briefed by Dy. CFO and explained them the differences between Fire Lift and Fire Evacuation lift. Also, explained the requirements of IS 14665 and NBC 2016 for installation and behavior of Fire lifts in buildings above 15m height. The meeting was attended by Mr. Abhijit Dandekar (Otis), Mr. Nimish Deshpande (Schindler), Mr. A S Herwadkar (Personal capacity), Mr. Sunil Barhate (Johnson Lifts), Mr. V D Gangrade (Kone), Mr. Sumeet Majumdar (Lerch Bates) & Mr. Rajesh Parab (IEEMA).

The lift division explained the industry views on noncompliance on the few requirements vide CFO's circular, as these are technically not feasible and not aligned with IS as well as NBC requirements. Dy. CFO informed the members that he will initiate necessary changes after IEEMA panel gives all relevant IS 14665 and NBC 2016 references along with prints. It was also decided that a meeting will be organized once again with Dy CFO's office to finalize, in case required after this representation has been made.

Industry and Factory Visit:

On 17th Feb, 2020 IEEMA secretariat made the Industrial visit to the High Voltage Direct Current Transmission (HVDC) Grid located at Padghe. The visit was co-ordinated and guided by Mr. Sunil Shenava, Aditional Executive Engineer and co-ordinator for the training activity at RTC Padghe. The aim of the industrial visit was to understand how the Padghe HVDC transmission system is connected to coal-fired Chandrapur Super Thermal Power to the major load Centre of Mumbai.

First Mr. Shenava explain the IEEMA officials the HVDC Subtation sample layout, HVDC Switch yard, DC to AC Converter unit of 500MVA Capacity, HVAC substation layout, HVAC switch yard.

HVDC connection between Chandrapur and Padghe (near Mumbai) in the state of Maharashtra in India, which was put into service in 1999. It connects the coal-fired Chandrapur Super Thermal Power Station to the major load Centre of Mumbai. The project has a 752 kilometers (467 mi) long bipolar overhead line. The transmission

voltage is ±500kV and the maximum transmission power is 1,500 megawatts. The scheme uses thyristor valves, arranged in a single twelve pulse bridge per pole. The project was built by ABB and BHEL, and is owned by Maharashtra State Electricity Board (MSEB). The eastern (Chandrapur) converter station is located 20 kilometres (12 mi) from the Chandrapur back to back HVDC station.

The project is developed with an objective to save huge cost of transmission of power to such a long distance. There is always a risk of transmission losses while transmitting the electricity to a long distance. MSETCL through this project able to save these losses and transmit the electricity very quickly and efficiently. They also able to recover the project cost over the period by saving and eliminating these transmission losses.

On 12 March 2020 IEEMA Secretariat Ms. Pragati Sohoni, Mr. Rajesh Parab, Mr. Ninad Ranade visited Lucy Electric and Huphen Fabricators Pvt. Ltd., Nashik, Maharashtra.

The company provides secondary power distribution solutions with over 100 years of industry experience, with the headquarters in UK, company manufactures medium voltage switchgear for utility, industrial and commercial applications.

Mr. Manoj Chaudhari, Production Head from the company took us through shop floor. Various stages of manufacturing of ring main units were shown to IEEMA secretariat. The RMU units are made as per customer requirements. These RMUs are manufactured for medium voltage range. The equipment are tested for routine tests in house.

A factory visit to Huphen Fabricators Pvt. Ltd., Nashik. The company established in year 2004, Huphen employs more than 100 employees covering Technical Staff, commercial staff, operators and unskilled workers. The products manufactured are Indoor Switchgear Panel –VCB, Outdoor Switchgear Panel- VCB. Composite Hollow Insulators new, Metering Cubicles, Medium Voltage CT's /PT's, Epoxy Components, Outdoor CTT's / PT's (Dry Type).

Ms. Sucheta Deore took IEEMA secretariat through the shop floor. The construction of CT and PT right from winding of cores to insulation process to final epoxy moulding were explained, The CT and PT are tested for routine tests in house.

Huphen has also developed indigenously process of Composite Hollow Insulators 33KV to 245KV. The complete process cycle from making FRP tubes to making composite insulators to its testing part, was shown by the company representative. Mr. Gangadhikar claimed that he is one of the few Indian Manufacturers who manufactures this Composite Hollow Insulators in India.

On 13 March 2020 IEEMA secretariat Ms. Pragati Sohoni, Mr. Rajesh Parab, Mr. Ninad Ranade visited visited Crompton Greaves Power & Industrial Solutions and Siemens Ltd, Aurangabad

CGPIS, formerly known as Crompton Greaves Ltd, and Siemens Ltd, is a multi product company manufacturing switchgear equipment, transformers, rotating machines, drives broadly.

Mr. Sandeep Kulkarni and Mr. Gopalsing Patil, Sr. Manager, Marketing took us to the shops floor were they Manufacture all types of current transformer, voltage transformer, condenser bushing, vacuum contractor, vacuum interrupter, dry type CT, PT units, power factor improvement equipment's etc. at their Aurangabad plant. We have visited CT, PT units and Vacuum interrupters with their own testing lab and R&D centre. CG is one of the leading manufacturers of Vacuum Interrupters and having more than 70% market share of domestic market and export market for the vacuum interrupters.

Siemens Ltd is one of the old members of IEEMA. It's a multiproduct company with its manufacturing facilities spread all over India. The company offers products and solutions like automation, power distribution, energy systems, smart grid, renewable energy, power transmission, low voltage distribution, power generation, and also in healthcare, building technologies, consumer services, drive technology, mobility, etc.

Siemens Aurangabad works has manufacturing set up for SF6 CTs & PTs, GIS and circuit breakers.

Siemens officials took IEEMA secretariat through 3 different buildings where different types of products are manufactured. SF6 CTs and PTs required for AIS as well as GIS are manufactured here. The process was shown stepwise from winding the cores to final assembly and testing.

Some elements like CT/PT cores for GIS, GIS mouldings etc are imported from Siemens Germany. Apart from this, 70 % of the raw material and accessories is procured locally.

Complete assembly work for GIS from 145 to 440 KV takes place in this factory. The CT/PT required for GIS are manufactured at Aurangabad factory. All equipment manufactured here use SF6 gas as insulating medium. The composite insulators required for all the equipment are manufactured in house. Also all the routine tests are done in house.

Gujarat

Opportunity in Indian Railways: Vendor Meet, 04 May, 2019, Vadodara

Vendor Meet at Vadodara for Indian Railways. Over 30 member companies participated from and around Vadodara.



Learning and Study Mission to ABB PowerTeCH and ERDA

On 25th July, 2019, Vadodara IEEMA organized Learning and Study mission to ABB Power TEC and ERDA, Vadodara. A session on skill enhancement needs; and Consultative collaboration with SMEs for Industry 4.0 by ABB PowerTEC team at their PowerTech center along with a tour of their Learning Centre. Afternoon session was conducted at the ERDA campus along with a tour of their various Testing facility. The programme was attended by a total of 25 participants from Vadodara and Mumbai. A Presentation on Factoring Services for SME's by SBI Global Factors Limited, the session was appreciated by members.



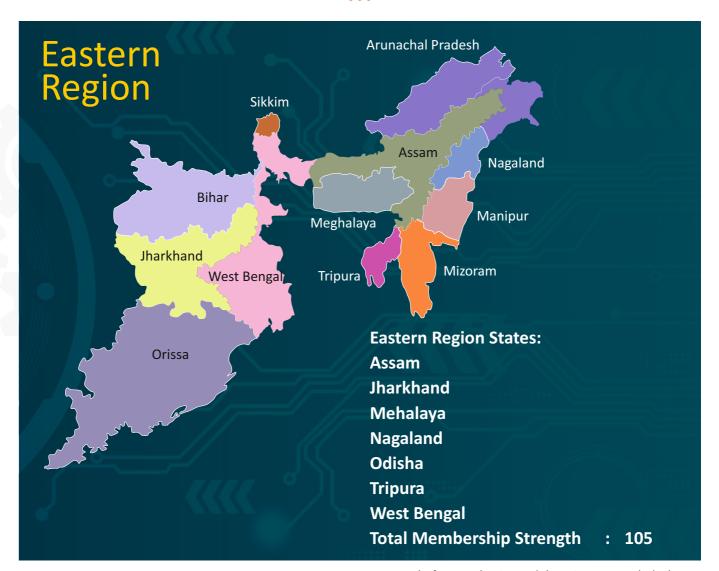




"ELECRAMA-2020 Curtain Raiser"; Vadodara

On 13th December 2019, IEEMA organised ELECRAMA curtain raiser at Vadodara Lukshmi Vilas Palace. The programme was attended by industry stake holders and

over 300 local manufacturers from around Vadodara and its industrial zone. Elecrama Curtain raiser showcased various concurrent events for its visitors and participants to network plan their activities during ELECRAMA



MAY 2019

IEEMA members participated in Vendor Development Program organised by South Eastern Railway at Jamshedpur on 1st May, 2019.

IEEMA members participated in Vendor Development Program organised by South Eastern Railway at Kolkata on 2nd May, 2019.

ERC Meeting

The 1st ERC meeting of 2019-20 was held at the office of Nirmal Wires Pvt Ltd on 10th May, 2019. It was attended by 30 members. Main agenda were update on IEEMA's role in electrical restoration work in Odisha post Fani,

proposal of IEEMA business delegation to Bangladesh, discussion on Steel MIP issue etc. A presentation was given on Insolvency & Bankruptcy Code 2016 by NeSL.





June 2019

Meeting with Mr. Rajesh Pandey, CMD – WBSEDCL to discuss about IEEMA Maitri Cell Initiative

Mr. Nirmal Saraf, Chairman, ERC along with IEEMA Secretariat met Mr. Rajesh Pandey on 6th June, 2019 and briefed about the formation of IEEMA Utility cell and asked for active involvement of WBSEDCL. Also, WBSEDCL was asked to submit some papers for World Utility Summit in ELECRAMA 2020.

Factory Visit to Plastofab

On 12th June, 2019 IEEMA Secretariat visited the factory of Plastofab, which is an ISO 9001-2008 certified Company manufacturing Instrument Transformers, Epoxy Resin Casting components & Hardware Accessories upto 33KV since 1983.



July 2019

Outreach to Bihar Utilities

IEEMA Secretariat visited Patna for 2 days from 4th to 5th July, 2019 to meet the State Utilities for promotion of Metering India & ELECRAMA 2020. The stakeholders met MD – BSHPCL & Director – BREDA, MD – NBPDCL & BSPTCL, MD – SBPDCL & BSPGCL, Chairman – BERC & Principal Secretary – Energy Department, Govt. of Bihar & CMD – BSPHCL etc.



Electrical Safety Awareness Workshop at Siliguri organised jointly with CEA & ICA

On 19th July, 2019 a one day National Workshop was organised jointly with CEA- Electrical Inspectorate,



Government of India and WBSEDCL on "Electrical Safety Awareness" at WBSEDCL Conference Hall, Power House, Siliguri, West Bengal.

Participation in "Power & Automation 2019" Exhibition organised by ABID



IEEMA participated in an exhibition organised by ABID (Association of Architects Builders Interior Designers & Allied Business) on 19th July, 2019 at Swabhumi, Kolkata. The theme of this exhibition was "Power & Automation". IEEMA also extended faculty support to ABID in "Skill India Development" program on that day.

ERC Meeting



The 2nd ERC meeting was held at HHI, Kolkata on 26th July, 2019. It was attended by 29 members. Main agenda was update on IEEMA delegation to Bangladesh, update on eastern region activities, Update on SME Clinique. A presentation was given on by YES Bank for MSMEs.



MoU with Asansol Engineering College

A MoU was signed between IEEMA & Asansol Engineering



College on 26th July, 2019 to facilitate Industrial visits, Seminars & Workshops, Internship & Training, and Mentored Student Projects & Faculty Development Program. This was an initiative under the Industry-Academia connect.

Visit of Mr, R K Chugh, President – IEEMA to NSIC, Howrah facility



Mr. R K Chugh – President IEEMA visited the NSIC Technical Services facility at Howrah on 26th July, 2019 to have a look at the facility where "NSIC-IEEMA Skill Centre" is planned in order to develop a Skill Development Cum Incubation Centre for Electrical Industry.

August 2019

IEEMA participated in a tender of WBSEDCL for imparting technical training.

IEEMA, for the first time participated in tender with WBSEDCL for imparting technical training. IEEMA technically qualified for the Technical Bid but could not secure the tender in the Price Bid.

Meeting with CESC to discuss about IEEMA Maitri Cell Initiative

IEEMA Secretariat met Mr. Debashis Ghosh, DGM – Planning Department & Mr. Santanu Sen, DGM of CESC on 8th August, 2019 and discuss on the way forward about the initiative of IEEMA Utility Maitri cell to mutually solve the common issues between the Utility and the industry.

Business Delegation to Bangladesh



IEEMA ERC organised a delegation of IEEMA members to Dhaka, Bangladesh from 24th – 24th August, 2019. The IEEMA delegation under the leadership of Mr. Samir Kr Ghosh comprised of 18 delegates from 14 companies. Fruitful meetings were with Indian High Commission in Bangladesh, BIDA, DPDC, BPDB, PGCB, BREB, BEMMA, Corona Engineering Group etc.

September 2019



Campus Recruitment drive of Technicians at Ramkrishna Mission ITI, Narendrapur

On 6th September, 2019 a campus recruitment was done at Ramkrishna Mission, ITI Narendrapur under the Industry-Academia initiative of IEEMA. Campussing was done by 5 IEEMA member companies from ER. A total of 8 candidates were recruited by the companies.

Campus Recruitment drive of Technicians at Institute of Instrumentation & Metrology, Belghoria



On 7th September, 2019 another campus recruitment was done at Institute of Instrumentation & Metrology ITI, Belghoria. Campussing was done by 4 IEEMA member companies from ER. A total of 5 candidates were recruited by the companies.



ERC Meeting



The 3rd ERC meeting was held at HHI, Kolkata on 9th September, 2019. Main agenda were discussion on IEEMA ER International Visits, report on IEEMA delegation to Bangladesh, discussion on SME Clinique – East, discussion on ITI recruitment and apprenticeship etc.

October 2019

Visit of Mr. Raghavaiah to assess the NSIC facility for setting up of Short Circuit Testing facility



On 18th October, 2019 Mr. B V Raghavaiah, Former Director at CPRI came for a recce visit to assess the facilities at NSIC Howrah. Mr. Raghavaiah has been approached to help set up a Short Circuit Testing Laboratory for Transformer Testing in the exiting testing facility.

November 2019

"Export – Pathway to Mission 5 Trillion" Conference organised by IEEMA.



On 1st November, 2019 IEEMA ER organised a half day conference on "Export – Pathway to Mission 5 Trillion" to emphasize on the way forward to boost the export opportunities for Indian manufacturers. The program was graced by keynote address by Ambassador Vishnu Prakash, Former Indian Envoy to Canada & South Korea & Former Consul General to Shanghai and a panel discussion also involving Dr. Dr. Prabir De, Professor – ASEAN India Centre, Mr. Lakshmi Narayan Sahu from ECGC, Mr. Ravi Sehgal, Chairman – EEPC & Mr. Anand Mohan Mishra, Dy. DGFT, Directorate General of Foreign Trade, Ministry of Commerce & Industry, Govt. of India

MoU with NSIC Technical Services to set up "NSIC-IEEMA Skill Centre"



A MoU was signed on 1st November, 2019 between IEEMA & NSIC to impart training and develop skill through training and competency development in identified areas to bridge the skill gap between industry requirement and available labour force.

Business Delegation to Nepal



IEEMA ERC organised a delegation of IEEMA members to Kathmandu, Nepal from 12th – 14th November, 2019. The IEEMA delegation under the leadership of Mr. Vinamra Agarwal comprised of 44 delegates from 34 companies. Effective meetings were conducted with Indian Embassy in Nepal, NEA, R K Group, IPPAN, High Tension Switchgears Pvt Ltd, Sigma Con Pvt Ltd, NECA, MCA – Nepal, Cosmic Electrical Engg. Associates Pvt Ltd, Baibhavlaxmi Construction, Renu Construction, FNCCI and member association like FEEN, FCAN etc.





Myanmar Visit



IEEMA Secretariat went on a Recce visit to Yangon, Myanmar from 25th – 29th November, 2019 to promote ELECRAMA 2020 and establish connect with the different stakeholders. Meetings were held with Indian Embassy in Yangon, EXIM Bank of India, Classic Electrical & Engineering Co. Ltd, YESC, IMCC, UMFCCI, RGK + Z&A Group.

December 2019

Vietnam Visit

IEEMA Secretariat went on a Recce visit to Hanoi & Ho Chi Minh City, Vietnam from 1st – 6th December, 2019 to establish connect with the different stakeholders. Meetings were held with Indian Embassy in Hanoi, EVN, INCHAM, VAMI, VCCI, Vietin Investment & Industrial Corp, NTEA Group, VELINA, Indian



Consulate in Ho Chi Minh City, Ho Chi Minh City Power Corporation & also official of Ministry of Indutsry & Trade, Govt of Vietnam.

Formation of EREC and its first Meeting

The 1st EREC meeting was held at the office of Nirmal Wires Pvt Ltd on 16th December, 2019. It was attended by 16 members. Main agenda was the formation of the EREC group, explain the charter for the region, discussion on the planned activities of eastern Region, Formation of Sub-committee's in EREC, Discussion on forthcoming E3 2020 etc.

February 2020

Factory Visit to Lumino

On 14th February, 2020 IEEMA Secretariat visited the factory of Lumino Industries Ltd, which is manufacturing



various types of overhead transmission line conductors since 1989. They are also into EPC business.

Factory Visit to Sanskriti Composites



On 18th February, 2020 IEEMA Secretariat visited the factory of Sanskriti Composites Private Limited which is a ISO 9001-2008 certified company manufacturing composites products like Fibreglass Reinforced Plastic (FRP) products – Moulded Gratings, Pultruded Gratings, Cable Trays, Structural Profiles etc

EREC Meeting



The 2nd EREC meeting was held at the IEEMA Kolkata office on 20th February, 2020. It was attended by 15 members. Main agenda was finalisation of Regional Sub-Committees, finalisation of E3 Organising Committee, Membership Outreach Program, discussion on EREC Planned activities for each committee etc.



March 2020

EREC Meeting

The 3rd EREC meeting was held over Zoom Web Conference on 26th March, 2020, Main agenda was discussion on the situation arising due to Lockdown across the country and its impact on Industry, specific points that needs to be raised by ER members to local authorities and Utilities, specific inputs to be given by EREC to NEC, details of payments to be released by ER Utilities and by Large & MNC Companies to smaller vendors.

North – East

April 2019

Meeting with Dy. CM of Tripura

Met DY CM of Tripura Mr Jishnu Dev Verma apprised him on various new initiatives of IEEMA and informed him about our interest of interacting the entire IEEMA Fraternity with Power Minister of North East along with Principal Secretary/Commissioner/CMD's/MD's and other Senior Officials from Utilities of NE.

Meeting with CMD, TSECL

Met CMD Mr Murhari Kele and other Senior Officials from TSECL and apprised about various initiatives of IEEMA.

Online PVC Training

Online PVC Training for Officials of Tripura State Electricity Corporation Ltd was conducted with more than 15 participants.

May 2019

Railway Vendor meet

A railway Vendor meet was organized in association with IEEMA at the premises of NF Railway, Guwahati on 10th May, 2019 where around 150 Participants from different Organisation participated. Also I was invited to be one of the panellist.

June 2019

Delegate mobilisation for Trafotech DT

14 Paid Delegates from Utilities were sent to DT Trafotech Conference from NE

July 2019

Plant Visit

A Hydro Power



Generation plant under Meghalaya Power Generation Corporation Ltd was visited.

Factory Visit

Similar visit was done to Meghalaya Renewable Energy Head Quarter to see the Solar Roof Top Installed in the Office Premises.

Meeting with Power Minister of Meghalaya

Met Power Minister of Meghalaya Mr James Sangma and apprised him that IEEMA Members can support the Power Department of Meghalaya if any Emergency like situation arises in the State.

Online PVC Training

Online PVC Training to Meghalaya Utility Officials with more than 30 participants.

Meeting with Principal Secretary - Energy

Met Previous Chief Secretary – Mr Alok Kumar, Principal Secretary Energy – Mr Neeraj Verma & Additional Secretary Power – Mrs Utpala Saikia and discussed with them that IEEMA Members can support Power Department by providing equipment and accessories any time at any Natural Disaster like flood occurs in the State which impact the Entire Power System.

Meeting with Power Officials

Met MD APDCL Mr Rakesh Agarwala, MD AEGCL Mr Satyendra Nath Kalita ,MD APGCL Mrs Kalyani Baruah and discussed with them and extended IEEMA support to them in case of any restoration of Power System that may arise due to any Natural Disaster which may disrupt the Power System.

September 2019

Electrical Safety Awareness Workshop at Sibsagar organised jointly with CEA



Safety awareness Program on Electrical Safety was organised at ONGC Campus Sibsagar, Assam in association with IEEMA & CEA on 10th September, 2019 where a large number of Participation was invited by me from Different Government Bodies of the state.





October 2019

Meeting with Official of Guwahati Smart City Ltd

Met Mr Moloy Bora MD Guwahati Smart City Ltd and apprised him about IEEMA and also invited him for ELECRAMA 2020

Meeting with Officials of Guwahati Municipal Corporation Ltd

Met Commissioner Mr Devajyoti Hazarika & Additional Commissioner Mr Dwijen Singh Guwahati Municipal Corporation Ltd and invited them for Elecrama 2020

Meeting with Official of PWD

Met Mr Raj Chakraborty Commissioner cum Special Secretary PWD apprised him about IEEMA and also invited him for ELECRAMA 2020

November 2019

Meeting with Official of NPTI, Guwahati

Met Mr Sambit Gantayat of NPTI Guwahati and discussed with him in details about joint venture training program with IEEMA

Enrolment of New Member

Enrolment of New Member Singhi Infrapower Projects Pvt Ltd to IEEMA Membership

Invitation of Utility Heads of N-E States

Invited Utility Heads from Arunachal, Sikkim, Tripura, Meghalaya, Mizoram, Manipur and Nagaland for Elecrama 2020 and also requested to send delegates for different concurrent events at Elecrama 2020

Invitation of non-members

One to One interaction with Non Members from different Organization and invited them for ELECRAMA 2020 and also apprised them about various initiatives of IEEMA

December 2019

Invitation of Chairman, AERC

Met Mr Subhash Das Chairman of Assam Electricity Regulatory Commission and invited him for ELECRAMA 2020 and also discussed with him for conducting training to the officials of Regulatory commission.

Invitation of Member Secretary, AERC

Mr Satyendra Nath Member Secretary of Assam Electricity Regulatory Commission and invited him for ELECRAMA 2020

Invitation of Senior Govt Official from NE

Invited Senior Government Officials from NE to ELECRAMA 2020

January 2020

VVIP participation at ELECRAMA 2020

VVIP Participation – Dy. CM of Tripura Mr Jishnu Dev Verma. Chairman Assam State Regulatory Commission, E-IN-C Nagaland, Executive Director Manipur State Utility

Participation in DBSM

For DBSM – 16 Senior Officials from Different State Utility of NE Participated

Participation in ETechNxt

ETechnxt - 8 Utility Officials participated from NE

Visitors at ELECRAMA 2020

IEEMA Members from the NE region visited Elecrama 2020

February 2020

Formation of NE Regional Chapter



Under IEEMA initiative 1st Regional Chapter was Organised on 12th February, 2020 at NEzone Head Office Guwahati with active participation of all IEEMA Members from the NE Region and discussed on various subject and one of the key discussion was how to increase IEEMA Membership in the Region

March 2020

Regional Chapter Meeting

2nd Regional Chapter meeting was held on 3rd March, 2020 at Hotel Gateway Grandeur where IEEMA Members from the region participated along with participants from Regional office of Bajaj Electricals & Havells and discussed about various new initiatives of Activities and also major discussion were done on few Technical & Commercial Glitches in some particular bidding documents of PWD which recently the Tender was floated.

ODISHA

April 2019

Discussed with the department of energy /power, Addl. Chief Secretary Development commissioner, Secretary Industry, Commerce, interacted with the Heads of departments i.e. Principal secretary Energy Govt. of Odisha, CMD of Grid corporation, Power Transmission Corporation (OPTCL), MDs of the power sector utilities, Power generation corporation, and also Hydropower generation corporation with senior management level officials in the energy Department and utilities.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

Visited Member office Jagabandhu Enterprises as a regular visit met Mr Sunil Kumar Muduli, Director for various activities and T &D conclave.

Visited Members office Velcro Mfg Pvt Ltd discussed about the PVC subscription fees of ieema with Mr Chandan Mohanty, MD, Velcro, Mr Mishra CA of Velcro Mfg Pvt Ltd.

May 2019

Secretary, Energy selected State Head of Odisha IEEMA as a member in procurement committee for quick restoration work at the time of "FANI" where members are get benefited directly.

Visited Member Company Gupta Power Infrastructure Ltd as a routine work and for space booking of Elecrama 2020 for sponsorship of our seminar T&D Conclave discussed for reporting the data of production met operation department with other departments along with Mr Mahendra Gupta, MD. Mr J M Gupta Director, GPIL.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

Interaction with Secretary Energy and CEO CESU regular visit to control room set up by government of Odisha with interaction with members for supply of materials for restoration work which was every effective.

Visited Members office Siddharth Engineer Limited regarding ERC meeting and deposited PVC prices also.

June 2019

Interaction with Secretary Energy and CEO CESU regular

visit to control room set up by government of Odisha with interaction with members for supply of materials for restoration work which was every effective.

Visited Member Company Gupta Power Infrastructure Ltd as a routine work and for space booking of Elecrama 2020 for sponsorship of our seminar T&D Conclave discussed for reporting the data of production met operation department with other departments along with Mr Mahendra Gupta, MD. Mr J M Gupta Director, GPIL.

1 NESCO & 1 Paid delegates from Industry OTPL for DT Trafotech

Visited Silicon Institute of Technology met Mr Sanjeev Nayak Director, Discussed with HOD Electrical and conducted All India Power Engineers Meet (AIPEM).

Visited Utkal Galvanizers Ltd for factory visit

Met Mr Prasanna Mohanty, President OJA, and a senior correspondence.

Visited Silicon Institute of Technology met Mr Sanjeev Nayak Director, Discussed with HOD Electrical and conducted All India Power Engineers Meet (AIPEM).

July 2019

BSM program conducted at Bhubaneswar around 44 numbers of member company attended with special session by Secretary Energy ,Govt Of Odisha where IEEMA has took a special role in the field of restoration work on post "Fani" Secretary appreciated IEEMA's role.



Interacted with the leading media distributed Press release with photographs of IEEMA activities of BSM program with special session on Post "FANI" Restoration of Electrical Infrastructure.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

Visited Member office Jagabandhu Enterprises as a regular visit met Mr Sunil Kumar Muduli, Director for various activities and T &D conclave.



Visited Members office Siddharth Engineer Limited regarding ERC meeting and deposited PVC prices also.



Met editors of Print media Business Standard, TOI, Indian Express etc. in Odisha region and vernacular language newspapers like Samaj, Dharitri, Sambad etc. discussed about the IEEMA.

August 2019

Introduced PV Clauses in CESU with Director Finance and utility officials 15nos of officials of Finance Dept. trained for billing of our member company. Interaction with secretary ELBO with number of EPC contractors for informing ieema activities.

Crux Power Pvt Ltd, enrolled as IEEMA member

15 nos of paid delegates attended Metering India

Met Institutional member ABIT discussed about the ieema Association and other activities.

September 2019

Introduced PV Clauses in OPTCL with Director Finance and utility officials 15nos of officials of Finance Dept. trained for billing of our member company. Interaction with secretary ELBO with number of EPC contractors for informing IEEMA activities.



Conducted members outreach program with government Officials at OPTCL conference hall. Interaction with ED NTPC Bhubaneswar regarding ieema activities discussed about ODSSP, IPDS DDUGJY projects with concern head of the project.

Interaction with utility MD's of NESCO, WESCO.

Met Institutional member ABIT discussed about the IEEMA Association and other activities.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

Visited Members office Velcro Mfg Pvt Ltd discussed about the PVC subscription fees of ieema with Mr Chandan Mohanty, MD, Velcro, Mr Mishra CA of Velcro Mfg Pvt Ltd.

Visited Members office Siddharth Engineer Limited regarding ERC meeting and deposited PVC prices also.

Visit Alfa Transformer Ltd discussed regarding ieema activities.

Met Institutional member ABIT discussed about the ieema Association and other activities.

Visited other Associations i.e. CII, FICC, ICC, Utkal Chamber of Commerce & Industry, British Council etc. met with the head of the association and president of UCCI, attended lot of program by getting invitations in the state.

October 2019

Interaction with Chief Engineer Paradeep Port Trust deepest Major port govt. of India. MD NALCO with other officials regarding IEEMA activities and sessions.

Visited Members office Velcro Mfg Pvt Ltd discussed about the PVC subscription fees of ieema with Mr Chandan Mohanty, MD, Velcro, Mr Mishra CA of Velcro Mfg Pvt Ltd.

November 2019

Interaction with Director Finance, Director HRD, OHPC and OPGC with Other officials for the Elecrama 2020 and other activities.

Interaction with MD of Southco Utility, Odisha.

Met Institutional member ABIT discussed about the IEEMA Association and other activities.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

Visit Alfa Transformer Ltd discussed regarding ieema activities.

Met Institutional member ABIT discussed about the ieema Association and other activities.

Visited other Associations i.e. CII, FICC, ICC, Utkal

Chamber of Commerce & Industry, British Council etc. met with the head of the association and president of UCCI, attended lot of program by getting invitations in the state.

December 2019

Interaction with Principal Chief Electrical Engineer, East Coast Railway. Principal Secretary Energy Govt. Of Odisha, Commissioner and Chief Electrical Engineer Bhubaneswar Municipal Corporation. Interaction with Director PGCIL, Director HRD, PGCIL Bhubaneswar regarding ieema activities.

Met Institutional member ABIT discussed about the IEEMA Association and other activities.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

OTPL enrolled as IEEMA member

Visited OEU Ltd office, Educational Institute member ABIT discussed with MD and Principal respectively.

Met Institutional member ABIT discussed about the ieema Association and other activities.

Visited other Associations i.e. CII, FICC, ICC, Utkal Chamber of Commerce & Industry, British Council etc. met with the head of the association and president of UCCI, attended lot of program by getting invitations in the state.

January 2020

Interactive with Principal secretary Industry Govt. of Odisha, Principal Secretary Energy, Principal Chief Electrical Inspector cum Engineer In Chief Govt. Of Odisha regarding the activities of IEEMA and Elecrama2020.

In ELECRAMA 2020 VIP participation from the state Govt. and from utility good number participate for DBSM, WUS etc.

February 2020

Welcomed the new joined Director Finance and Corporate Affairs OPTCL discussed with IEEMA activities. Met Director NSIC discussed about the ieema program. Interaction with CEO OREDA and Director Project OREDA discussed about the Elecrama 2020.

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

SR Associates enrolled as IEEMA member

Visited some Non-members office Flow more Ltd, Crux Power Pvt Ltd for discussing about the benefits of ieema membership and being a member.

Visited OEU Ltd office, Educational Institute member ABIT discussed with MD and Principal respectively.

March 2020

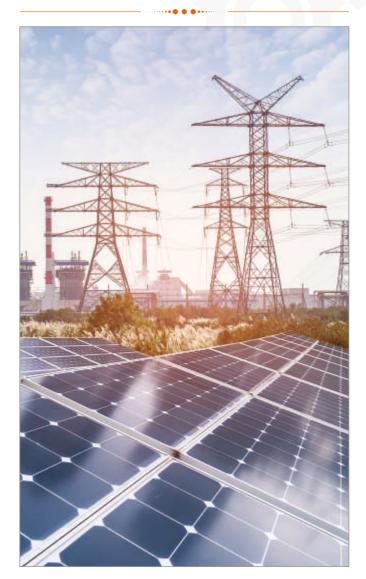
Visited Silicon Institute of Technology met Mr Sanjeev Nayak Director, Discussed with HOD Electrical and conducted All India Power Engineers Meet (AIPEM).

Interaction with CM office, Minister of energy, Govt. of Odisha to intimate the seminars, conference, and events etc which are happening in regular basis to enhance the brand name of IEEMA.

Flow More enrolled as IEEMA member

Visited OTPL for factory visit

Visited Silicon Institute of Technology met Mr Sanjeev Nayak Director, Discussed with HOD Electrical and conducted All India Power Engineers Meet (AIPEM).

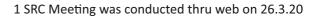






Engagement with Members

2 SRC Meetings have been conducted so far – 15.10.19 at Bengaluru and 6.12.19 at Hyderabad



Hyderabad Members interaction was held on 6.12.19 with the SR Committee



17th Jan 2020 – IEEMA Membership meet with Thailand Board of Investment at Hyderabad









Engagement with Key Utilities

Energy Secretary, Karnataka was the Chief Guest for Bangalore EL-20 Curtain Raiser held on 15.10.19, well attended by 412 relevant stakeholders





Meter Division Representation with TANGEDCO in July 2019



PVC Calculator / Formula Usage training for BESCOM – 20.2.20



PVC Calculator / Formula Usage training for KPTCL – 20.2.20





ELECRAMA – 2020

- Exhibitors from South were 118
- Participation from all Southern States in DBSM
- Participation of Karnataka Utility Officials in WUS & E-TechNxt



- VIP participation
 - Energy Secretary from Karnataka
 - MD of KPTCL
 - MD of BESCOM
 - Director Technical of BESCOM
 - Director Telangana TRANSCO
 - Director Generation Kerala
 - Director TSSPDCL

-28-

- Director APSPDCL
- Director In-Charge APEPDCL

.....



the leading electrical & electronics monthly

100000 1000000

EEMA Journal has entered into 40th year and continues to furnish its readers with informative and researched articles from experts of the power industry. The year 2019-20 saw the digitization of IEEMA Journal where we provided our readers the digital version of the magazine. In the year 2019-20 various new sections were introduced in IEEMA Journal. Apart from interviews of top officials of utilities, bureaucracy and SEBs IEEMA Journal also covered interviews of its divisional chairmen and it received positive feedback from our readers



Mr. Nihar Chawalla, E: nihar.chawalla@ieema.org Mr. Rajesh Chauhan, E: marketing.ieemajournal@ieema.org

for monthly subscription visit: www.ieema.org

AatmaNirbhar BHARAT



IEEMA collate Production/Sales data from its members on a confidential basis and compile aggregated statistical report for publishing to the members for 12 different electrical equipment and one Order Book position report (OBP) every month.

Collection and compilation of data process follow Competition Compliance rules & regulations. Individual company wise data is never disclosed to anyone and kept confidential and only aggregate compiled statistical report is published. The average lead-time of furnishing Sales/Production reports was about 70 days. Online data submission process provides confidence to members since data submission is voluntary. IEEMA with the guidance of division and Regional committee members makes sustained efforts to broad base the data compilation.

IEEMA uses this data effectively for showcasing status of Power Sector, updates on growth of electrical equipment industry and EXIM analysis highlighting key issues like threat imports & its adverse impact on the domestic industry. IEEMA also uses this data for estimation of domestic Industry size of major sectors of T&D with the help of experts from the division/industry. Various central government departments demand IEEMA statistics reports and use them in strategic decisions.

'Demand Assessment Study' conducted by IEEMA with the help of a leading consultant has been found useful to the users and government has also used extracts of the same for their future planning

Circulation of Prices and indices

IEEMA Price Variation Clauses (PVC) are operational for more than 4 decades and gained a high credibility amongst users. IEEMA PVC act as a unbiased uniform tool to mitigate the risk arising out of fluctuations in the raw materials/components.

During this year, IEEMA PV formula for EHV Cables and MV Cables was revised by adding the new raw materials

and weight factors as per latest technology. On members' demand, IEEMA has also evolved PV formula for 6 Quad Railway Signaling Cables as per RDSO specification.

IEEMA PV circulars are made available with a QR Code and 'Watermark' on the background to further enhance the credibility, traceability and relevance of IEEMA PV circulars.

Statistics Reports and PV circulars are published on http://publications.ieema.org for download by user

PV Calculator (http://pvcalculator.ieema.org)

PV Calculator portal where a user can get Certified Report of Price Variation by submitting key inputs is now increasingly being used by all stakeholders for verification and submission of PV claims. PV Calculator tool is equipped to furnish final Price Variation as per Two stage switch over method recommended by IEEMA when the PV clause is revised and to compare price variation as per actual date of delivery vs price variation as per contractual date of delivery.

IEEMA has been reaching out and promoting using this tool to all the stakeholders through presentations, interactions/training etc.









The biggest showcase of Innovations for Powering the Norld



Over **<u>1370 Exhibitors</u>** showcased their technologies



Business queries worth **4.6 bn dollars**

(fy)

Over **3,00,000 footfalls** in five days at the world's largest confluence of everything electric

rganized by the Indian Electrical & Electronic Manufactures Association (IEEMA), the Biennial Electronics Congregation is the biggest showcase of electrical and electronic innovations. ELECRAMA 2020 had strong focus on renewable energy, next generation technologies, automation, digital solutions, and buyers and sellers meets. Encouraging women in power sector, building electrical systems for safer indoor spaces and electrification of railways are key highlights of this year's edition.



At the threshold of the new decade, world's biggest electricity exhibition – Elecrama 2020 – dazzled with an electrifying launch and a grand opening at the India Expo Centre, Greater Noida. The flagship initiative of the Indian Electrical & Electronic Manufactures Association (IEEMA), the apex electrical industry body, ELECRAMA 2020 witnessed the largest public showcase yet of industry innovations by over 1370 exhibitors from India and abroad from January 18th to 22nd 2020.



The event was graced by Shri Prakash Javadekar, Union Minister of Heavy Industries and Public Enterprises; Shri R. K. Singh, Union Minister of State (IC) Power, New & Renewable Energy; Shri Satish Mahana, Minister of Industrial Development, Govt of UP, along with Mr. R K Chugh, President, IEEMA; Mr. Anil Saboo, Chairman, ELECRAMA 2020 and several other dignitaries.



The Exhibition commenced with a well-orchestrated Unveiling Event followed by the ceremonial Ribbon Cutting that was richly supported by the martial tunes of the Indian Army played by the pipe band of 3rd battalion of Rajputana rifles. The first as it also marked the 30 year kick off celebrations at courtyard with live band that enthralled guests, a pioneering effort at ELECRAMA 2020.



eTechNxt

eTechNxt, a unique initiative under ELECRAMA 2020, powered deliberations on pertinent challenges of next generation technologies, including e-mobility, energy storage, start-up forum, and upskilling for new technologies. The four day initiative covered a range of subjects, e-Mobility trends and policies and emerging technology and storage.



Women Empower

For the first time, Elecrama created a platform "Women Empower" to discuss challenges and experiences of women in power segment. Women have to work twice as hard to prove half their worth, said Ms Anjuli Chandra, keynote speaker at the inaugural address of Women Empower Initiative.



3rd World Utility Summit

Energy leaders from all over the world joined the ongoing mega power sector congregation Elecrama 2020 – the biennial electricals and electronics showcase of Indian Electrical & Electronic Manufactures Association (IEEMA) – for the much awaited 3rd World Utility Summit (WUS) at India Expo Mart, Greater Noida.

The inaugural ceremony of the summit was graced by Mr. Anand Kumar, Secretary, Ministry of New and Non-Renewable Energy, Government of India; Mr. Mritunjay



Kumar Narayan, IAS, Joint Secretary, Ministry of Power, Government of India; Dr. Jörg Polster, Head of the Economics Department, German Embassy; Shri Prakash S Mhaske, Chairperson, Central Electricity Authority; Mr. Michael Satin, USAID, Director of Clean Energy and Environment Office, USAID; Mr. R.K Chugh, President, IEEMA; Mr. Anil Saboo, Chairman, ELECRAMA 2020; Mr. Vikram Gandotra, Chairman WUS 2020; amongst others.



buildELEC

buildELEC played out on 20th and 21st January, heavily focussing on the evolving roles of artificial intelligence and IoT, Smart Tech, energy efficiency, security, power quality, covering rooftop solar, security and surveillance, and lighting.

buildELEC showcased latest technologies to build electricity smarter and safer buildings through H3O (homes, hospitals, hotels) is which is of urgent importance considering short-circuits being one of the leading cause of fires in India.



ieence your link to electricity

Three dedicated pavilions that of Renewable Energy, National Small Industries Corporation (NSIC), SME Clinique, Rail Urja displayed various technologies and developments towards meeting major national objectives. The Railway Conference debated India's roadmap towards 100% electrification of Indian railways.

Signing of MoUs



Two MoUs were also signed, the first between IEEMA and Kyrgyzstan to promote bilateral trade and economic cooperation. The second MoU was signed with Rupeeboss under SME Clinique initiative.



RBSM and DBSM

Amidst multiple initiatives aiming to strengthen discourse and engagement around key verticals, the conference saw a bustling 5th Reverse Buyer-Sellers Meet under ChangeXChange 2020 program, wherein people participated from 70 countries round the globe. While the



participants profile improved exceptionally in comparison to the previous editions, the international participants hailed the organizers for creating an impressive platform for a global exchange.



The RBSMs held concurrently saw participation from 650 buyers from 70 countries including Southeast Asia, the Middle East, Latin America, CIS countries and SAARC nations.

Statistics speak: Record breaks at ELECRAMA 2020

The **14th edition of ELECRAMA** recorded more than **3,00,000 footfalls** and **1370 exhibitors showcased** their products and services at the biggest showcase of electrical and electronics manufacturers. Business queries or more than **4.6 billion USD** were estimated at the event being held at India Expo Mart in Greater Noida from January 18-22, 2020.



AatmaNirbhar BHARAT



•	Industry Size	:	INR 49000 Crores (Provisional)
•	Exports	:	INR 4,185 Crores
•	Imports	:	INR 1063 Crores
•	Number of Members in		
	the Division	:	110 Organization
•	Division		
	Meetings	:	24th April 2019, Webinar 11th June 2019 at IEEMA, Mumbai
			19th December 2019 at IEEMA, New Delhi
			17th March 2020, Webinar
-	Number of Division		
	meetings	:	04 (Four)
-	Average Attendance	:	14 (Fourteen)

State of Industry:

The wire and cable market in India, which comprises nearly 40 per cent of the electrical industry is one of the widest and most competitive industries in India with a large organized sector as well as a large number of small and medium manufacturers. FY 2019-2020 have thrown mixed signals on state of the Industry. While most of the organizations have grown with rising profits, others have shown flat numbers.

The recent policy and regulatory initiatives have given the industry a required push and demand of EHV cables are on rise.

In coming years, Transmission and Distribution sector is set to remain in focus for quite some time With increasing focus on renewables, the industry is now looking forward to supplying cables for solar and wind power applications in addition to oil and gas, railways and other specialized segments. In addition, there will be an increased demand for wires and cables when the acceptability of Electric Vehicle (EV) picks up. Some amount of wire will also be required to set up EV charging infrastructure

Key discussion points

• Usage of Lead or Aluminum in Power Cables: Subject of using lead or aluminum in power cables were discussed and deliberated in length various time during division meetings and other forums. Both the technologies have pros and cons as compared to each other. Since issue seems to be a complete divide between the industries which will conclude the decision to not so logical direction. The matter was left as status quo

Members were informed that, IEEMA is technology neutral body hence does not promote any one technology since it is also matter of commercial interest. Some natural changes and market driven changes may be required from consumer end to adapt any proposed change.

Members were requested to freely promote their interest through various institutions at their own will for the time being.

• **Type Test Validity for Cables:** IEEMA had been representing to CEA and other relevant authorities for



bringing uniformity in acceptance of validity of type test reports across central and state utilities. Subsequently, CEA called a meeting in September 2018 where the subject was discussed in great length between manufacturers, utilities, testing labs and other key stakeholders.

Thereafter, subject were deliberated during divisions meeting and the inputs on the subject were forwarded to CEA time and again. In the verbal response, CEA opined that that there is general consensus between all stakeholders for a reasonable validity for all products and there is a great need for uniform validity across utilities.

It was informed that CEA is in the process of issuing the guidelines by 1st Quarter of FY 2020-21.

Indian Standard for Instrumentation Cables: Standardization being a critical and important activity is regularly discussed and taken up by Cable Division and technical committee.

New subject are being identified and regular subjects are reviewed time to time. This will not only help industry restrict substandard imports and promote good quality products in the country.

This year Standard of Instrumentation cable were proposed and discussed during various technical committee meetings and the same is in the final stage of submission in BIS for wider circulation. The initiative to lead the proposal is taken by M/s Cords Cable.

 Training to State Utilities: Cable division is instrumental in leading the IEEMA initiative of door step trainings to State utilities. Members of technical



committee from time to time devote time and spearhead the activity of providing technical training on subjects like underground cables, best practices – laying and operations etc to utility engineers at various locations across country.

This will help Utility engineers gain the desired knowledge and technical knowhow, which help them in installation and maintenance of Power Cables both overhead and underground.

With increased government focus on cabling, the trainings needs are tend to grow in near future and the technical committee members are also keen to provide the desired training which will help in win win situation for both Utility and manufacturers.

Public Procurement Policy- Make in India

In response to CEA request for submitting inputs on Public Procurement Policy- Make in India policy, Chairman in due consultation with members submitted the following inputs:

Items	IEEMA Recommen- dations	Sufficient Domestic Capacity to source 100% input items Yes/No	Sufficient Domestic Manufacturing Capability, with or without significant dependence on imported raw material/ components Yes/No	Critical equipment with high % of imported content Yes/No	Item manufactured in India under license from foreign manufacturer holding IPR's Yes/No		
For Products under Distribution/Transmission/Generation							
Control & Power Cables	100%	Yes	Yes	No	No		
Cables 11-33 KV	75%		Yes				
Cables 66-132 KV	70%		Yes				
EHV Cables (up to 220 KV)	60%	No	Yes	No	Yes		
EHV Cables 400 KV	50%	No	Yes	No	Yes		
XLPE Cables	80%	No	Yes	No	No		
Cable Accessories	30%		Yes				



AatmaNirbhar BHARAT

CAPACITORS & Power Quality Division



•	Industry Size	:	INR 552 Crores
•	Exports	:	INR 227 Crores
•	Imports	:	INR 152 Crores
•	• Number of Members in		
	the Division	:	42 organizations (including Capacitor manufacturers, manufacturers of accessories & component, EPC Contractors and others)
•	Division		
	Meetings	:	05th April 2019, Mumbai
			12th July 2019, Hyderabad
			6th November 2019, Pune
			17th February 2020, Mumbai
			18th March 2020, on Webinar
-	Number of Division		
	meetings	:	05 (Five)
-	Average Attendance	:	13 (Thirteen)

Summary of Division meetings: Objectives/ Key discussion points & achievements

Division was involved in following activities during FY 2019-20

- 1.0 Issues related to BIS Quality control order
- 2.0 Vice Chairperson of BIS ETD committee from the Industry
- 3.0 Expanding scope of Capacitor division to Capacitor & Power Quality Division
- 4.0 CEA guidelines as what it means and how Industry needs to understand
- 5.0 Local content for Power Capacitors for Make in India

1.0 Issues related to BIS Quality control order

1.1 Marking Fee:

The marking fees on mfd capacitor is as high as 4-15% where for PFC it is around 1-3% of the product cost. It was observed that for other electrical items the marking fee is around 0.03% - 0.05% of product cost. Secretariat approached BIS to confirm on the issue raised on marking fees but till date no response is received.

1.2 Increase in testing charges

It has been observed that the testing charges particularly for mfd capacitors were increasing and currently it is almost similar to power capacitors. The testing charges are as increased between 50% - 200% from 2017 to 2020.

1.3 Insufficient testing infrastructure

The testing infrastructure in India is limited and after the introduction of QCO it is mandatory for all the manufactures to type test all their products. Due to the limitations it was observed that there is a long waiting list at the labs for samples to get tested. There are total 5 Labs in India and out of that only 2 labs are capable for complete testing, rest 3 has limited facilities.





1.4 Implementation of QCO

Members apprised that they are in process of meeting the requirements of the Quality Control Order and the main challenge is capacity of the labs such as ERDA and CPRI. IEEMA was in follow up with BIS on this issue and representations were submitted, but the response is awaited.

2.0 Vice Chairperson of BIS ETD committee from the Industry.

After lot of persuasions with BIS, IEEMA has been able to get the position of Vice-Chairman of BIS ETD Committee for the industry. The division will be nominating a suitable person for VC of BIS ETD- 29 after due deliberation.

3.0 Expanding scope of Capacitor division to Capacitor & Power Quality Division

Looking to the context of the current Indian market which is moving towards power quality and Indian government has also started working on it. To align the division with future, the division changed from Capacitor Division to "Capacitor and Power Quality Division". It could also add new members to the division.

3.1 Division also developed a data reporting format to capture power quality products production data which will be reported by the members from FY 2020-21. It will help members to capture this new market and will also provide value proposition to new members under power quality.

4.0 CEA guidelines as what it means and how Industry needs to understand

CEA had issued guidelines on Technical Standards for Connectivity of the Distributed Generation Resources which implies on tariff orders on 8th February 2019. It is to be understood from state regulators as what is the role of Industry in implementing these guidelines.

4.1 Meeting with MERC on CEA guidelines and way forward

MERC is working out on various other aspects of the CEA Power Quality Order. The MERC is also seeking inputs from



MSEDCL. MERC had indicated that they will be introducing a 5 year way forward for power quality norms. The MYT will be released in April 2020 will give a five year roadmap for power quality norms. They will first start with 33 kV followed by implementation at 11 kV.

5.0 Local content for Power Capacitors for Make in India

Members deliberated and came to the conclusion that most of the raw materials used in Capacitors are imported so the figure of local content will be minimal. As there is no substitute is available locally for BOPP Film, Non-PCB Condenser Oil, aluminum, fire retardant plastics etc. to produce the capacitors in line with the available quality standards. Due to the negligible capacity of the raw materials in India division recommended the local content as low as 35%.

Production Statistics

IEEMA compiles production statistics each month for different ranges and types of capacitors from the data collected from manufacturers. This statistics is expected to help to analyse the Industry trend and facilitate strategic decisions by manufacturers and policy intervention by regulators. The power capacitors are manufactured domestically upto 1000 V with ratings upto 25KVAR and above under non self healing and self healing category. Above 1000v category ratings from upto 150KVAR to above 300 KVAR are covered.

The market size of this Industry as against the size of the overall T & D equipment industry is very low in India as compared to other developed countries. The Indian Capacitor industry represents a very small portion of the global Capacitor market. The weightage of Capacitor Industry is not even 1% compared to total Electrical Equipment Industry index.

AatmaNirbhar <mark>BHARAT</mark>

CONDUCTOR Division



Industry	Size : INR 9	300 Crores
• Exports	: INR 2	480 Crores
Imports	: INR 5	07 Crores
 Number Member the Divis 	rs in	ganizations
 Division Meeting 	6th S 26th	may 2019, Vadodara eptember 2019, New Delhi February 2020, New Delhi March 2020, New Delhi
- Number Division meetings		our)
- Average Attendar	nce : 12 (Tr	welve)

Conductor Industry Overview:

During FY 2019-2020, Conductors market witnessed a low to moderate growth backed by a limited expansion of T&D Infra. Official reports suggest that transmission line addition has been lower with 11,664 circuit km added in comparison to 22,437 circuit km in FY 2018-2019

It is believed that the transmission segment is set to grow over the coming years mainly driven by the need to evacuate large-scale renewable energy generation. With a target to set up 175 GW of renewables by 2022 and 450 GW by 2030, transmission systems will require significant expansion and strengthening. This, in turn, will offer considerable investment opportunities to players in the conductors industry Major challenges faced by the industry is volatility in raw material prices. Any upward movements in the prices of raw material specifically aluminum have an adverse impact on the margins which will impact the domestic and international demands

Conductor's statistics shows that Industry registered a decline of approx. 15 per cent in comparison to last year due to global slow down and non-completion of many infra schemes followed by lock down during end of last quarter.

Summary of Division meetings: Key discussion points

Public Procurement Policy (Make in India preference)

Subject was discussed in depth and consensus was formed within industry in terms of local content in all types of conductor. Thereafter same is submitted to CEA for official notification.

Also matter of Local content in HTLS hardware were discussed. It was suggested that HTLS Conductor and hardware's are being procured by the Customers as a package. Hence, local content of HTLS Conductor and Hardware should be seen as one unit.

Members are of the firm opinion that, the Public Procurement Order needs to be mandated for purchases by State Government and Utilities and also for private procurement apart from Central government projects to further strengthen it.

Draft Standard Bidding Document

Draft Standard Bidding Document issued by Ministry of Power for ISTS projects were discussed and the same found to be in line with the requirement of the Industry.





CEA guidelines on High Performance **Conductors**

Subject was discussed and deliberated multiple times in the division meeting. It was suggest that guidelines document may cover all available technologies with special focus on innovations.

Once all the technologies are listed in the document, It should be left to consumer to decide the merit of buying the product.

Members decided to write directly to CEA on the subject.

Annual Contracts- Raw materials

Members discussed and raised concerns on Annual Contracts with Annual Discounts with primary producers (HINDALCO/ VEDANTA/NALCO etc) and opined that Delivery period to be extended for atleast three months due to lockdown for lifting of material. Members also suggested that individual members may start the discussion with respective primary producers to finalize the contract for FY 20-21 considering the grim situation

Outstanding Dues and BGs:

Subject of Outstanding dues and BGs were discussed in details. It was shared that electrical industry has outstanding payments of approved bills, for the past few years, from the Central and State Utilities, Central PSUs and other Government Departments, running into approx. INR 15,000 crores. This problem has become more acute in the COvid 19 situation, which is causing a huge stress in the availability and adequacy of liquidity of these companies. Many of the suppliers are Small and Medium Enterprises with very limited financial resources. To improve liquidity situation an adhoc payment of 80-85% of the approved bill value should be paid immediately to suppliers, which are already in treasury / finance.

The subject was taken up by IEEMA in full strength.

Door Step training for State Utilities

Subject of door step training for state transmission and distribution utilities were discussed, It was informed that IEEMA has taken a mandate to provide product specific technical training to users at their premises. The training was conducted according to the requirements of the concerned utility.

In last one year IEEMA have imparted trainings to 15 plus Utilities on various important subjects like Transformers and Reactors, GIS, Cables- Design selection, maintenance, testing, Best Earthing Practices for Electrical and Sensitive Electronic Equipment, Switchgears, Instrument transformers etc. and have received excellent feedback from the participants and Utilities.

Members were requested to nominate faculty for the training from their respective organization and also share key gap technical areas which they feel needs State Utilities attention

Distribution Transformers



- **Industry Size** Exports
- : INR 7965 Crores
- INR 1226 Crores
- Imports
- INR 584 Crores
- Number of Organizations in the Division : 106 organizations.
- Division Meetings: 4th April 2019, Mumbai 5th August 2019, Delhi 6th February 2020, web meeting 18th March 2020, web meeting
- Number of Division meetings : 4 (Four)
- Average Attendance : 15 Nos.

Divisional Events/Conference:

TRAFOTECH-DT, first standalone conference of IEEMA Distribution Transformer Division held on 12th June at India Habitat Centre, New Delhi. The Conference was attended by 302 participants where 141 nos. of delegates were from Utilities and Government Officials. TRAFOTECH-DT Conference in its very first edition had shown very encouraging response across all corners of the nation. Around 22 techno- commercial papers was presented during the conference.



AatmaNirbhar <mark>BHARAT</mark>

Summary of Division meetings: Objectives/ Key discussion points and Achievements

Issue of Frequent Changes in the guidelines by BIS and BEE:

DT division had took up the matter of the frequent change in the guidelines of BIS and BEE within division meeting and also with the Public Policy cell meetings. It was seen that BIS and BEE has undergone frequent changes in their guidelines which has created lot of paper work and burden of cost towards testing for the MSME/SME Industry.

Dual certification issue of BIS and BEE:

The subject of dual certification was raised in the division as one of the major issue of the DT division. IEEMA DT division represented the dual certification issue with different ministries, however the efforts have not yielded results. The matter was referred to Public Policy Cell and they had taken a note to represent this to DIPP and MSME ministry on the lines of ease of doing business. Division also formed a committee of 3-4 members to discuss the matter strongly with BIS/BEE.

Representation to MSEDCL:

IEEMA Distribution Transformer Division members met Director (Operations), MSEDCL on 4th April 2020 to discuss on the HVDS project of Govt. of Maharashtra. The project was expected to be completed in time bound, however it was delayed because of non-supply of equipments. Members from DT Division raised their concerns on performance bank guarantee, reduction of the penalty on the delivery, applicability of the Price Variation to be paid for the entire material received during the contractual delivery period, Repair of the failed transformers to be allowed within 90 days from the



date of failure intimation, Request was made that amount should not be retained from manufacturer's current bills against failed transformers. etc. etc. MSEDCL was requested to consider on the request raised by members.

Discussion on the amendment of PV Circular for DTs

Division discussed on the issue that many DT manufacturers are facing challenge in using the PV circular for Transformers as they had to choose the circular meant for power transformer for supplying 12.5MVA, 33/11kV transformers because of the utilities requirements. Since 10MVA and above are being supplied both in 33kV and 66kV, PVC claim may be settled based on voltage class. Members suggested to change the definition & nomenclature of Distribution Transformer as "ratings up to 25 MVA and Up to 33 kV" and Power transformer to 'ratings above 10 MVA And Voltage above 33 KV to clear the ambiguity.

Steel & Steel Products (Quality Control) Order 2019

Ministry of Steel has notified a Steel and Steel Products (Quality Control) Order 2019 vide Gazette dated 22nd July 2019. The Order was applied to Stampings, laminations and Cores of transformers (with or without winding). Members raised their concerns on the implementation date, applicability of certificate of conformity, drawing of samples etc. It was decided to meet and discuss the concerns with Ministry of Steel and BIS for smooth implementation of the Steel QCO 2019.

IEEMA Recommendation on Post- dispatch inspection of DTs by Utilities-Recommedations to UP Discoms.

As a way-forward of the IEEMA meeting with UPPCL, Division recommended certain procedure/guidelines for U.P Discoms on post-dispatch inspection of transformers by utilities.

Concern over increase in guarantee period by MSEDCL and Gujarat Discoms and remedial action:

Several representations were made from the DT Division to reduce the warranty and PBG, citing examples of few Discoms where the warranty periods is reduced based on representation made. Members discussed that Utilities like Maharashtra had again increased their warranty period because of local manufacturers pushing utilities to go for higher warranty periods.





Overdue payment in utilities and corrective action:

Members highlighted the concern of non-payment from state utilities, which is resulting in huge crisis for SMEs for their survival. During the division meeting the matter was discussed that data on non-payment have been collated by IEEMA for all states, where UP and Tamil Nadu are the leading defaulters. It was concluded that the outstanding details will be send to Ministry of Power with a request for expediting the release of pending payments lying with the central/state utilities.

Proposal for one day Seminar on best practices of installation and maintenance of transformers:

During TRAFOTECH-DT Workshop, one session was dedicated to best practices of installation and maintenance of distribution transformers, which was greatly appreciated by all dignitaries & delegates. During one of the division meeting, it was discussed that such workshops are needed to bring seriousness among utilities/Discoms where failure rate of DTs are higher because of non-maintenance. Members suggested to represent this to CEA for sending advisories to Utilities regarding the maintenance guidelines.

Issues related to limited BEE certificate validity for Distribution Transformers:

Members raised the issue that, BEE is issuing certificates with a validity period of 1 year or less for all star ratings. It was highlighted the fact that all the certificate were being issued up to 30-06-2019 and 30-06-20 respectively for all star ratings. This practice will lead to a situation where all application will come for an extension just before June 2020 which will create lot of paperwork and will lead to delays, which may further result in disruption of supplies to Discoms/Utilities as in absence of valid BEE certificate the purchaser will not accept the transformer.

IEEMA had represented the matter to BEE to consider the old BEE label be automatically extended for three years and new certificates should be issued with the validity of three years as per past practice.

Issue of Duty Inversion of Amorphous Alloy Ribbon:

During the division meeting the issue of duty inversion of Amorphous Alloy Ribbon was brought to the notice of the division. Members discussed that few manufacturers are importing the material paying 10% custom duty, however many of the manufacturers are importing under nil duty. IEEMA Requested to provide a draft to take the activity forward.

Scope Extension of Marked Grain Oriented Electrical Sheet and Strips confirming to IS 3024/2015

During one of the meeting, one of member had requested for a Scope Extension of the IS: 3024/2015 to include high grade CRGO offering losses 0.65 watts/kg @ 1.7 Tesla with thickness 0.18mm.

Members deliberated that any new technology should be encouraged & supported by IEEMA/Industry, as it gives leverage to the manufacturers to design high efficiency transformers to meet domestic and global market requirements.

Vice Chairman from Industry for ETD-16

IEEMA mentioned that Association has the opportunity to nominate industry expert for the position of Vice Chairman for the ETD-16 Committee of BIS. IEEMA mentioned that they were trying hard for many years to get an industry expert appointed as the Chairperson of ETD committees, but have not been successful. After lot of persuasion, BIS has partially agreed to our request and has now agreed to appoint industry expert as Vice Chairperson of ETD Committees. After due deliberations, Mr. Nagarjuna Babu, Advisor from M/s. Shirdi Sai was recommended from the division for the post of vice chairman of ETD-07.

Implementation of BIS on Amorphous Ribbon:

During the division meeting it was discussed that IEEMA Members and Amorphous Importers had approached IEEMA to request Ministry of Steel for postponement of the implementation of steel quality control order which covers Amorphous ribbon also. Members discussed amongst themselves that because of Novel Corona Virus, there are travel restriction to china and many mills supplying Amorphous are not provided certification by BIS because of this.

Members suggested to represent Ministry of Steel for postponement of implementation of BIS certification on Amorphous Ribbon for a period of 9 to 12 months to encourage more competition.



AatmaNirbhar <mark>BHARAT</mark>

Achievements of IEEMA Distribution Transformer Division:

- 1. Active involvement of the Distribution Transformer Division in BIS ETD-16 Committee.
- 2. TRAFOTECH-DT, first standalone conference of IEEMA Distribution Transformer Division was successfully organised on 12th June at India Habitat Centre, New Delhi. The Conference included 22 papers spread over 3 sessions was attended by 302 participants. Out of 302 delegates, 141 nos. of delegates were from Utilities and Government Officials. The theme for the conference was "Efficient and Reliable Distribution Transformers for sustainable development".
- 3. Implementation date of Steel Quality Control Order 2020 for Stampings/laminations/Core of Transformers has been extended till 16th September 2020.
- Ministry of Power has issued a gazette notification where the validity of models under standards and labelling scheme has been extended till 31st December 2022
- 5. Ministry of Power issued Public Procurement (Preference to Make in India) Order 2020 vide dated 17th March 2020 to provide purchase preference (linked with local content) in respect of power distribution sector. Distribution Transformer (both oil filled and dry type) are considered in the Order specified with the local content (%).

Representations done by IEEMA Distribution Transformer Division during April 2019 to March 2020:

- a) IEEMA representation to Director (Operations), MSEDCL vide letter no. SEC/DT/DIV/UK/16 dated 18th April 2019 on the concern raised by DT Division members. Reminder letter was sent to MSEDCL vide reference SEC/DT/DIV/UK/51 dated 31st July 2019
- b) Representation to DG, BEE on the issue of frequent changes in the guidelines, specifications w.r.t mandatory certification of Distribution Transformers vide letter no. SEC/REP/DIV/DT-TRF/UK/21 dated 25th April 2019
- Representations sent to MP Discoms on stringent conditions in their tender documents on security deposit, price variation and performance bank guarantee for procurement of transformers vide dated 7th May 2019
- Representation to Addl. Industrial Advisor, Ministry of Steel vide reference no. SEC/IEEMA/DT/UK/2019/75 dated 5th November 2019 for extension in the implementation of the steel QCO 2019.

- e) Representation to DDG (Certification), BIS vide reference no. SEC/IEEMA/DT/UK/2019/74 dated 5th November 2019 regarding IEEMA's proposal for effective implementation of the steel and steel product quality control order 2019 for stampings, laminations and cores of transformers
- f) IEEMA has sent representation to Director, Bureau of Energy Efficiency (BEE) vide letter reference no.
 SEC/REP/DIV/DT-TRF/UK/92 dated 31st December 2019 on the issue of limited validity period.
- g) IEEMA representation to TSSPDCL and TSNPDCL for reducing the warranty period and PBG requirement for procurement of Transformers vide dated 28th January 2020
- h) Representation to Joint Secretary, Ministry of Steel vide reference no. SEC/IEEMA/DT/UK/2020/99 dated 5th March 2020 for time extension and amendment in the Steel QCO 2020, so that essential guidelines are formulated by the committee constituted for smooth implementation

Economic & Taxation Committee:



The Economic & Taxation Committee 2019-20 was reconstituted by the National Executive Council, under the Chairmanship of Shri Adarsh Jain, General Manager (Finance / Commercial), KEI Industries Ltd. Shri Yogendra Agarwal, Senior General Manager, Bharat Bijlee Ltd., was the Vice-Chairman of the Committee. Other senior officials from Finance and Taxation Department of member organisations were nominated as members of this Committee.

On completion of the term of Shri Adarsh Jain, Shri Yogendra Agarwal took over as Chairman, in September 2019 and Shri Supushpa Ch Kaushal Head Business





Development – North, Power Transmission & Distribution, L&T Ltd. took over as Vice Chairman of the Committee.

The Committee deliberated and addressed issues of

members in areas of finance; implications of taxes and duties; impact of Government notifications/circulars on the industry; and policy amendments and Goods and Services Tax. The Committee also played an advisory role and provided guidance to members in these areas.

The Committee steered the pre-budget exercise and represented the IEEMA Pre-Budget Memorandum for Budget 2020-21 to the Government of India. It also interacted with the Ministry of Finance, Government of India, on this subject.

The Committee conducted meetings throughout the year, where it deliberated and addressed various taxation and economic policy issues faced by the industry.

Electrical Insulating Materials Division



•	Industry Size	:	Rs. 2,000 crs
•	Number of Members in the Division		38 organizations
•	Division Meetings	:	26th April 2019, Mumbai
			7th June 2019, Mumbai
			15th November 2019, Mumbai
			27th February 2020, Mumbai
-	Number of Division		
	meetings	:	04 (Four)
-	Average Attendance	:	11 (Eleven)

Summary of Division meetings: Objectives/ Key discussion points & achievements

- Cash flow issues & payment cycles have gone up

- Auto Sector is down and not reviving
- Alternator Sector last quarter is reduced
- Business has come on the down side
- HV Motors are stable
- No funds in DISCOMs
- No investments anticipated to happen in Thermal sector in the next 5 years
- Rotating Machines segment is flat.
- Overall insulation sector might get squeezed down in future
- Automotive Industry is slow
- Switchgear Industry is in bad shape
- Things are moving with the Government now, probably it might pick up
- Small upshot in Motor Industry by 3% year on year
- Transformer industry is almost dead
- HT Motors Business is good
- Cash flow issues & payment cycles have gone up
- Alternator Sector last quarter is reduced
- No funds in DISCOMs
- No investments anticipated to happen in Thermal sector in the next 5 years

IEEMA Electrical Insulation System (IEIS)

IEIS is a comprehensive insulation systems formed by combining individual products, where-in UL has assigned a file number which is available to manufacturers of rotating machines for their certification at a nominal fee. Currently there are 20 organizations who have been licensed to use this file (UL File : E318161)

AatmaNirbhar <mark>BHARAT</mark>

INSULEC 2019 Seminar

10th Edition of INSULEC 2019

"The Heart We Protect"



The tenth two day long International Conference on Electrical and Electronic insulating materials and systems INSULEC 2019 was organized on 21st and 22nd August 2019 at The Hotel Leela, Mumbai.

With more than 230 registered delegates, INSULEC 2019 received an overwhelming response and was spearheaded with six technical sessions, paper presentation and panel discussions over these two days.

Mr Mr YV Joshi, President ERDA, ACE-GETCO was the Guest of Honour at the two day conference.

Mr Lohit Shringi, Global Marketing Leader, DuPont, China was the Keynote Speaker

Late Mr. Nalin Seth was conferred with the "Life Time Contribution Award" for his special contribution to Insulating Industry.

Three session with 14 technical papers were presented on the first day of INSULEC. The themes of presentations were Insulation of Electrical Rotating machines, Insulation of Electrical Static Machines and New Insulating Materials, Systems & Processing Equipment

The second day of the conference also had three sessions and 12 paper presentations. The themes of presentations were Studies & Evaluation of Materials & Systems and Insulation of Cables, Winding Wires & Insulators.

A Panel Discussion on Future Technology Trends and Insulation Systems for Demanding Needs was conducted with the panelists being Shri Sajid Mubashir – Scientist G, Dept. of Science & Technology, Mr Debi Prasad Dash – Executive Director, India Energy Storage Alliance (IESA), Dr P S Roy – Professor, IIT and Mr Steven Lee – Senior Application Scientist, DuPont Korea.

The conference ended with announcement of best paper awards.

First Best Paper Award: Mr R Acharya, BHEL, New Delhi for his paper on "A Novel Method of Transposition Insulation of Roebel Bars to Improve Stator Winding Performance in Large Capacity Turbo"

Second Best Paper Award: Mr Vishal Srivastava, ABB India & Germany for his paper on "Aging of Insulation Systems for Transformer: Utilization of Short Term Aging Tests for Assessment of Life"

Third Best Paper Award: Mr Steven Lee, DuPont for his paper on "The Testing Methods and New Standard of Evaluating the Insulation System of Traction Motor in Hybrid Electrical Vehicle / Electrical Vehicle"

Elevators & Escalators Division



Indian Elevator & Escalator industry today comprises of many domestic and multinational companies and SMEs. Unforeseen circumstances due to Covid-19 pandemic has brought its own challenges for businesses and the industry is not an exception. However, the industry is expecting a reasonable growth in upcoming years due to growing urbanization and continued focus on especially affordable housing, infrastructure development in metro, railways and airports etc. Other fiscal measures and policy initiatives from the government towards these sectors will help to grow the sector. The division had an emergency meeting to discuss the lockdown situation in the month of April.

In the 5th year after resumption of the division, we have held regular meetings every quarter. Discussions and deliberation in the division meetings revolved around the objectives mainly for helping the industry by resolving various common issues and promoting the industry. Division also discussed on bringing in more representation of manufacturers to the division.

44 ╫ĩଈᡬݚݐݐ៰ݐݷݘݑݙݵݔݐݖݐݤݖݐݐݸݖ



Division is discussing adoption of National Building Code (NBC) by the states to bring uniformity in regulations applicable to elevator industry. This will support the elevator industry in compliance with lift codes and applicable laws. Some states have already adopted elevator standards thus bringing some clarity. Hence, there is a need to pursue select other states for adoption of common codes. Division intends to connect with state governments to pursue adoption of common codes.

Division once again represented to Chief Fire Officer, Mumbai (CFO) regarding issuance of a notification for MCGM for provision of fire evacuation lift in high rise building. The terms are onerous and difficult to comply with given the technical challenge. Technical committee members met Dy. CFO to reconsider the content of the notification and to revise & issue a fresh circular/guidelines, applicable for the entire state. Division has identified skill development as an important area where industry can contribute in generating skilled workforce by leveraging their expertise. Therefore division is exploring skill development trainings for the industry through Power Sector Skill Council. IEEMA has also approached a reputed skill development institute in Mumbai and brought them to the membership and division for further detailed discussion for taking this activity further.

Division is also exploring conducting training programmes on Safety awareness on use of Elevators and escalators for common public.

Division also intend to come out with special focus issue of IEEMA Journal covering various techno-commercial articles on the industry.

Insulator Division



•	Industry Size	:	INR 1,24 Crores (Provisional)
•	Exports	:	INR 688 Crores (Provisional)
•	Imports	:	INR 421 Crores (Provisional)
•	Number of		
	Members in the		
	Division	:	47 organizations
•	Division		
	Meetings	:	30th May 2019, New Delhi
			06th September 2019, Hyderabad
			25th November 2019, New Delhi
			19th January 2020, Greater Noida
			13th February 2020, Lucknow
-	Number of		
	Division		
	meetings	:	05 (Five)
-	Average		
	Attendance	:	14 (Fourteen)

Summary of Division meetings: Objectives/ Key discussion points & achievements

Concerns of Insulator Industry

Members raised concerns for the decline in the business opportunities for the Insulator industry due to shrinking business opportunities in the domestic market. Decline of business in Transmission and Distribution, for both Porcelain and Composite insulator industry turned into de-growth.

The delays in payment from State Electricity Boards and from some of the EPC's is a concern for the industry.

The concern of the industry of imports from China was addressed largely by Imposition of Anti-Dumping Duty for a further period of Five Years is big relief for the Porcelain Technology and in addition the Government initiatives like "Make in India", CEA Advisory etc. shall give some relief to the industry.

Members also agreed to collectively explore business outside India. Members deliberated this new thought with positivity and proposed to expend the horizon and





AatmaNirbhar BHARAT



discussed to explore South East Asia and SARC countries through IEEMA platform. Suggestions were sought to arrange sessions on ways to reduce the cost and improvement in the productivity to be competent in the market.

Public Procurement Order

The Government of India, through Department of Industrial Policy and Promotion, issued the Public Procurement (Preference to Make in India) Order, 2017. This Order encourages 'Make in India' to promote manufacturing and production of goods and services in India with a view to enhance income and employment.

Various nodal ministries of the Government of India, including Ministry of Power and Ministry of Heavy Industries and Public Enterprises notified sector specific Orders, prescribing higher or lower percentage of local content in respect of items under their purview.

Members discussed and deliberated the matter within the division wherein domestic content for the Insulators was finalized and submitted to concerned ministry for notification. It was well accepted and accordingly the local content was notified by the Ministry of Power, Government of India.

Draft Type Test Validity Document by CEA

IEEMA has been pursuing with CEA for standardizing the Type Test Validity period for various electrical equipment. CEA had issued Guidelines for the Validity Period of Type Test(s) conducted on Major Electrical Equipment in Power Transmission System. CEA invited comments/suggestions from IEEMA on the draft guidelines.

The division confirmed that the Validity of Porcelain and Composite Insulators should be ten years as there is no change in basic design/technology, mechanical construction, basic material, functional application of the product and manufacturing process. As such, apart from type tests, utilities are witnessing Acceptance Tests, which covers mechanical, electrical and chemical compositions.

Increase membership of IEEMA Insulator Division

For widening the membership base and increasing the participation in IEEMA Insulator Division, Chairman discussed with members and decided the following actions in this regard:

- To invite more Insulator manufacturers to join IEEMA
- To organize joint meetings with Hardware and Accessory Sub-committee
- To invite EPC player in the Division meetings
- To organize division meetings with utility interactions

Further, four meetings were conducted along with the T&D Hardware & Accessory Sub-committee. Members appreciated and opined that this move will generate interest in the Division members and with increase in participation of members, interactions would be more qualitative. Also clubbing division meeting with utility interactions had added interest of the members resulting in more active participation from the members.

Utility representations

The members were debating during division meetings on how to provide value proposition to utilities. Form Utility perspective, on time delivery from the manufactures is the most vital for the successful commissioning of the project. Insulator manufacturers have enough manufacturing capacity to meet the country demand. In spite of large capacities in place, sometimes it is observed that manufacturers are not able to meet the expected delivery need of the utilities, for one reason or the other. To discuss this and getting inputs from top leadership of the utilities, insulator division started visiting the utilities on how to make sure that the industry can meet the delivery needs of the utility well within prescribed time lines, without comprising the Quality Standards as this being the pre-requisite from business perspective. During this FY the division visited TSTRANSCO, UPPTCL and RDSO and discussed about the Change from Lot inspection to Process based Audit of vendors. The idea is well appreciated by these utilities and the division is working in its way forward.



Interaction with RDSO



Instrument Transformers



Industry size	:	INR 1262 Crores
Count of members		
in the division	:	76 organisations (including manufacturers, manufacturers of accessories & components, EPC Contractors & others)
Division meetings		
during the year	:	
Number of		
division meetings	:	4 (Four)
		09 July 2019
		17 October 2019
		11 December 2019
		13 February 2020
Average		
Attendance	:	11 members
Summarv	(of division

Summary of division meetings: Objectives/Key discussion points and achievements

Instrument Transformer industry is well-established industry in India. The Instrument Transformers industry in India manufactures current transformers and voltage transformers of various rating from 0.66 KV to 765 KV, for indoor and outdoor applications. The industry also export instrument transformers in the range of indoor upto 36 KV and outdoor above 12 KV. This industry has demonstrated its capabilities by manufacturing 1200 KV CVT for 1200 KV test station by PowerGrid at Bina, Madhya Pradesh. The first quarter of the FY 20 didn't see much movement in HV segment nor there any enquiries in this segment. However OBP was good in MV/LV segment, In HV tenders, the internal arc test is being made mandatory by some utilities if there is a use of porcelain insulators.

Second quarter of the year saw some improvement with 400 KV projects getting finalised and a good requirement in EPC tenders, in 220 KV range. Third quarter saw some improvement in 132 KV and 220 KV segment. Third quarter saw slight uplift in the requirement as compared to last quarter in MV and EHV segment. However some delay was observed in 400 KV projects as many EPC projects were on hold.

Some issues observed by the industry is as follows:

- Some ambiguity regarding type tests as many tenders are coming up with specifying internal arc test, especially for 220 KV.
- Pressure on prices due to reverse auction.
- Bad payment terms

Operational issues

- Enormous delays were observed in payment from utilities. Though there is penalty clause, there is no commitment from buyers' side for keeping with payment timelines.
- For MSMEs, a special support is given by the central government, however the same is not honoured by the utilities.
- Delays in drawing approvals Due to delay in drawing approvals, there is not enough time left for manufacturing the product and delivery. So some kind of cap is required for drawing approval to be added in the tender.

The division took up following activities during the year FY 19-20

Proposal – revision in PV clause for Instrument Transformers

The existing PV formula for CT-PT was revised in 2005. Since some new materials like polymer insulators, Mu metal, nano crystalline core are being used in the equipment, the same are not included in existing formula. Due to this, a need was felt to revise the existing formula. The committee was constituted to take this activity further. The subject is under discussion.



International Business Division



IEEMA international undertakes activities to connect Indian business with global business. As India continues to attract the attention of the world, IEEMA endeavors to strengthen India's Electrical Equipment Industry's international engagement globally and also work towards making IEEMA the first port of call for overseas delegations that wish to engage with India and for Indian industry that wishes to access traditional and emerging markets overseas.

The primary goal of the IEEMA International Business Division is to undertake activities to connect Indian business with global business. The division also works towards developing market access for Indian exporters; identifying and addressing the needs of the small sector to make it more competitive; promoting cooperation with counterpart organizations; adopting a proactive and partnership approach with foreign governments on various international issues concerning the Indian economy, among others.



IEEMA International works very closely with the Ministry of External Affairs, the Ministry of Commerce and Industry and the Indian embassies / missions overseas for creating conducive policies and procedures for trade and investment. We also work very closely with the foreign embassies / missions in India, international institutions / multilateral agencies, think tanks and various universities.

Our International work endeavors to disseminate vital information related to markets and joint venture possibilities to both Indian and foreign companies.

We, on a regular basis, organize International Events, Exhibitions, Seminars and Meetings with visiting Heads of State Governments, decision-makers, Networking Sessions with counterpart organizations, multilateral and academic institutions and other policy making bodies to build a strong Trade and Investment relationship between India and the rest of the world.



For achieving the above said goal and objective IEEMA engaged in various activities of overseas delegations, exhibition participation and interaction with Embassies/ Missions in 2019 -20. The main Highlight was the engagements during ELECRAMA 2020.

To reach and achieve its objective and mission; engagements taken up by the Division were:

Overseas Visits and Participation in Exhibitions:

IEEMA participated as IEEMA India Pavilion under the Market Access Initiatives (MAI) Scheme of Ministry of Commerce Government of India. This is an Export Promotion Scheme envisaged to act as a catalyst to promote India's export on a sustained basis. The scheme is formulated on focus product-focus country approach to evolve specific market and specific product through market studies/survey.

IEEMA went to Africa Utility Week from 14 to 16 May 2019 South Africa and participated as IEEMA India Pavilion. India Pavilion was inaugurated by Shri. Abhishek Shukla, Consul General, Consulate General of India, Cape Town. IEEMA officials Ajay Mahajan and Pragati Sohoni and ICC officials India Pavilion and IEEMA stall was also visited by Shri. Abhijit Chakraborty, Deputy High





Commissioner, High Commission of India, Pretoria, South Africa. The main purpose was to help to Indian manufacturers for potential business in South African markets.

IEEMA went to Malaysia in Asia Utility Week, 3 -5 September 2019, Kuala Lumpur again to participate along with exhibitors in the IEEMA INDIA Pavilion. The Pavillion was inaugurated by HE Shri Mridul Kumar, High Commissioner of India to Malaysia. Members were encouraged and assured of his support to expand and enhance them exports to Malaysia. The delegation had participation from Members of IEEMA. Mr Murali Krishna and Mr Sudeep Sarkar from IEEMA Secretariat coordinated for IEEMA Members.

IEEMA went to the Mecca of Electrical Exhibitions, Middle East Electricity 2020, 3 – 5 March 2020, the IEEMA



Pavillion was inaugurated by Ms Neelu Rohra Consul Commerce at Indian Consulate in Dubai. The purpose of the engagement was to explore new Business opportunities for IEEMA Membership.

We had also visited and participated in various other important events across the Globe to Countries for promotion and engagement with the IEEMA Membership.

IEEMA travelled with a robust delegation to Bangladesh and Nepal and had very fruitful interactions with the stakeholders. These delegations were a part of the engagement activity undertaken by IEEMA, International Division. There were active participation in the events like Energetic & Elektrotechnika in St Petersburg, to MYANENERGY in Mynamar, IEEMA visited various exhibitions in Kazakhstan, Bulgaria, Czech Republic, Philippines, Indonesia, Brazil, Vietnam, Turkey to name a few.

The main purpose of these visits and participation was to engage and invite them to India. With the objective to showcase India and its Electrical fraternity.

The engagement with MoU partners was enhanced with Participation at FAEMA Meeting held in Decembers in Seoul, S Korea. Again to engage with other Industry Associations member of FAEMA.

As an activity IEEMA held meetings and met the Ambassadors and Consul Generals of over 35 Countries to actively propagate the IEEMA Membership, the Electrical Industry of India.



The outcome of these activities was the participation of more than 650 buyers from 70 Countries and more than 1 lakh visitors and 4.6 BILLION USD, of business transacted. There were visitors from across the globe and participations as exhibitors was done by Countries, as pavilions. Embassy and Consulates participated as exhibitors showcasing their Country Electrical strengths.

One on One Meetings were held with Countries, Brazil, Argentina, Belarus, Egypt etc. Memorandum of Understanding was signed with JIA Business Association, KYRGYSTAN.

International Council on Large Electric Systems (CIGRE) is the apex international organization dedicated to constant improvement of power system technologies across the globe. CIGRE organised its 47th Session at Paris on 26th – 31st August 2018, where experts from 98 countries were participated to share and joined forces in order to improve existing system and build the electrical power system of the future from Generation to Distribution. IEEMA was represented by IEEMA Members as participants in their technical sessions. In line with our objective of promoting IEEMA brand at international level and providing international exposure to our membership, IEEMA mounted a delegation of its members to CIGRE

AatmaNirbhar <mark>BHARAT</mark>



2018, Paris. 14 senior officials from the following organizations were participated including the secretariat as IEEMA delegation.

- IEEMA Secretatiat travelled to Sau Paulo, Brazil to participate and actively engage witrh the Electrical fraternity of the S American Continent. The exhibition we participated was ENIE – 28 -30 August 2018, Sau Paulo.
- We engaged with the Indonesian Electrical Community during Elenex 2018 19 -21 September at Jakarta – Indonesia, were we invited the counter Association METI to India during E -3 to sign an Memorandum of understanding with them.

 As part of IEEMA's initiative to explore business opportunities across the globe for Indian Electrical Manufacturers .IEEMA delegation visited Kenya to participate as IEEMA pavilion at "Future Energy East



Energy Exhibition" between 12th-13th Sep 2018 at KICC, Nairobi Kenya. Future Energy East Africa being the largest and longest running regional power conference and exhibition in East Africa, making it a well-known and trusted brand with focus on Transmission & Distribution, Generation, Metering & CRM, Renewables. IEEMA participated in this as exhibitors and delegation.





LV Switchgear Division



•	Industry size	:	INR 24850 Crores (Provisional)
•	Imports	:	INR 9564 Crores (calculated as per guidelines approved by division)DGCI&S.
•	Exports	:	INR 7930 Crores (Provisional)
•	Number of		
	Members in the		
	Division	:	97 organizations (including LV Switchgear manufacturers, manufacturers of accessories &
	components,		
	· ,		EPC Contractors & others)
•	Divisional Meetings	:	12th April 2019, IEEMA Mumbai Office
			21st June 2019, IEEMA Mumbai Office
			26th September 2019, IEEMA Mumbai Office
			27th March 2019, web meeting
•	Number of		
	Divisional meetings	:	4 (four)
•	Average Attendance	:	14 (Fourteen)

g

Key Discussions / Activities during the year:

 Members discussed and deliberate that state of Industry in each meeting and observed that overall growth of the electrical industry has declined by 10.47% from April 2018 – Mar 2019; however LV switchgear industry has a sheer growth of 4.6%.

- Under the activity and initiative of technical committee, IEEMA has represented to BIS for extending the implementation date of IS 12640(Part-1 & Part-2) and 6 month extension has been granted.
- Under the leadership of Chairman the Division formed a committee to deliberate on the subject of Spurious and Substandard products and explore the means to discourage the same. Since the quality of the product is of paramount importance, it was discussed to find ways through social media campaign, trainings and advertisements. The initial proposal from IEEMA for print and social media was discussed with few members, however the matter was suggested to revisit once again involving the management and office bearers.
- The Division Members were actively involved with various committees of BIS eg ET07 and ET20 and made significant contribution towards development of standards.
- Under the leadership of Chairman and Vice Chairman, the LV SWGR Division formed a working group which interacted with Government e Marketplace officials in several meetings and identified 3 major products MCBs, MCCBs and RCCBs to be included in the GeM portal. The specifications are under discussion with GeM officials.
- Ministry of Commerce & Industry issued Gazette Notification dated 4th December 2019 where Plugs and Sockets are brought under Quality Control Order mandating Compulsory use of Standard Mark confirming to IS 1293:2015 effective from 01.06.2020 as per scheme –I of schedule-II of the Bureau of Indian Standards (Conformity Assessment) Regulations 2018. Since the implementation date was very close, Division took up the issue to represent to Joint Secretary, DPIIT, Ministry of Commerce and Industry for extending the implementation date by one year and also to clarify on the scope as the IS 1293: 2019 as the present standard is limited upto 16Amp and higher rating of 20Amp, 25 Amp are not covered.
- During one of the Division meeting, M/s. Onspot Solutions was invited to give presentation to LV Switchgear Division Members on the solutions being offered on Anti- Counterfeiting and tracking solutions for protection against counterfeit products. Representative from Onspot Solution briefed members that they had Cloud based product authentication solutions which empowers the manufacturers to authenticate the product with single



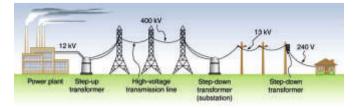
AatmaNirbhar BHARAT

scan. It was mentioned that consumers just need to scan a QR code on the product to get complete authentic information in a couple of seconds. Each product will be tagged with a unique QR code which is generated from our IP Right held algorithm back-end system. These cloud based solution will give the instant result to the consumer with complete information like Product manufacturing company, MRP, manufacturing date, power ratings the products, etc. Members liked the concept offered by M/s. On Spot and IEEMA was suggested to circulate the presentation among all LV Switchgear Division members for review.

- Division decided to organise SWICON 2020 jointly with MV HV Switchgear Division with focussed theme "Switch smart – Sustain Future". The committee decided to put SWICON Conference on hold because of COVID-19 pandemic.
- Members discussed to form a new division on "Control Panel" under IEEMA. The new division will help the switchgear manufacturers and also increase strength of IEEMA. The suggestion was welcomed, however to begin with the proposal, a sub-committee was recommended to be formed in consultation with National Executive Council of IEEMA.

IEEMA LV Switchgear division came into existence in 2012 when the traditional Switchgear Division on IEEMA got divided into LV and MV / HV divisions. The objective behind separation was to increase focus on the divergent issues of these segments and address existing and emerging market needs. The Division has more than 96 organizations ((including LV Switchgear manufacturers, manufacturers of accessories & components, EPC Contractors & others) which makes the division a true voice of LV switchgear Industry.

Low voltage switchgear is one of the well-established industries in India. This Industry covers Low Voltage switchgear products such as Air Circuit Breakers, Moulded Case Circuit Breakers, Miniature Circuit Breakers, Residual current devices, Fusegear products, H.R.C fuses, Thermal overload and protection relays, Contactors, Starters, Distribution boards and Factory- built assemblies. The industry caters to end-user segments such as manufacturing industries, buildings – residential and commercial, agriculture, infrastructure entities, utilities and OEMs.



Meter Division



•	Industry Size	:	INR 3575 Crores
•	Export	:	INR 367 Crores
•	Import	:	INR 27 Crores
•	Number of Members in the		
	Division	:	52 organizations
•	Divisional Meeting	:	27th May 2019
			5th July 2019
			27th September 2019
			6th December 2019
			2nd March 2020
•	Number of Divisional meetings	:	5 (five)
-	A		

 Average Attendance : 16

Key Discussions / Activities during the year:

Populated PCB: The domestic industry as whole is facing a severe challenge in terms of level playing field as there is considerable import of populated PCB. These populated PCB is the heart and brain of any Electronic meter and constitutes 70%-80% (depending upon the type of the meter) of the contents of the meter, is cases where import on populated PCB takes place only assembling of Meters happens in India which is not make in India. This issue needs to be addressed to bring level playing field. A detailed representation along with recommendation has been sent to Secretary Commerce and Secretary DPIIT which are being followed very closely for its logical conclusion. This issue has also been highlighted at various forum including MoP and CEA.



- Huge Outstanding: The Division made several representations to State Utilities and Ministry of Power on huge outstanding related issues, it was highlighted that more than 1000 Crs of industry is stuck with state utilities and industry is finding it difficult to sustain business operations. These representations were followed by interactive sessions with Utility heads and Secretary, Joint Secretary in Ministry of Power.
- Capacity and Capabilities of Domestic Industry: The Division has apprised Hon'ble Minister of Power Shri R.K Singh and other senior ministry officials in various interactive sessions that the Indian Electricity Meter industry has sufficient capacity to meet the demand that will be generated by the planned Prepaid Smart Meter roll out. The combined annual production capacity as reported by 17 members of Division is more than 10 Crores.
- Make in India and Public Procurement Order: Members took part in various session called by CEA in context of Public Procurement Order, and submitted the local content value for energy meters. Industry also submitted a recommendation on how more localisation can be done in case of production of Energy Meters. Members reiterated that since domestic industry has adequate capacity and capability hence there is no need to go for International Competitive Bidding (ICB) for Smart Meter Procurement.
- Meeting with Hon'ble Minister of Power Shri R.K Singh: Division members participated in the meeting called by Hon'ble Minister of Power in the view of planned roll out of smart prepayment Meters in India, The Industry assured Hon'ble minister regarding capacities and capabilities on domestic manufacturers and also apprise him the key concerns which once addressed will create a more conducing environment for the roll out.
- Meeting with CMD PSPCL Shri Baldev Singh Sran: Division Members, Led by Vice Chairman Mr. Amit Kumar met CMD PSPCL and highlighted the key issues

faced by industry such as sealing of Meters , Inspection and testing , Warranty clause and condition in old tenders. CMD PSPCL and other officials took note of the pain points of industry and the issues were addressed on priority basis.

- Meeting with Chairman UPPCL, Shir Alok Kumar and Shri Arvind Kumar: During the financial year the Division members led by Chairman and Vice Chair met Chairman UPPCL twice and apprised him regarding huge outstanding issue pertaining to UP DISCOMs and other project related issues. Division also submitted a detailed representation regarding impact of these outstanding on working capital and also suggested the procedure to reduce the bill processing time.
- Meeting with MD DVVNL, Ms. Saumya Agarwal: Senior members of the division met MD DVVNL, Agra and highlighted the key issued faced by members such as outstanding and project execution related issues as a result of combined effort from division members payments were released.

Representation Made:

- To Hon'ble Prime Minister on huge outstanding and survival of domestic Industry
- To Secretary Commerce and Secretary DPIIT on Populated PCB
- To Ministry of Power on Capacity and capability of Domestic Meter Industry
- To Chairman UPPCL on Huge outstanding and other project related issues
- To CMD PSPCL on Operation related issues
- To MD DVVNL on issues faced by Industry



Metering India 2019



IEEMA Meter division organised the 8th edition of METERING INDIA seminar on 8th & 9th August 2019 at Hotel Le Meredien, New Delhi. Metering India is the benchmark event of the Indian Electrical Metering Industry, a biennial event organized in collaboration with various stakeholders in the energy metering eco-system.

The seminar witnessed overwhelming support from across all Stakeholders of Metering ecosystem. The theme of this edition was Widening Horizons... conveying that Metering is no longer limited to the conventional application of billing alone. It also provides useful information for Analytics, Pricing mechanisms, Demand Response, Load curtailment, revenue protection, Demand forecast, Energy management etc. Services like installation, billing, analytics, improvement in billing efficiency, renewable integration and management, etc. have all become a part of the wide horizon of Metering Solutions. Further, Metering is now converging with Smart Grids and Smart Cities.

The Seminar was supported by Ministry of Power, Ministry of Electronics and information Technology, Smart City Mission, Ministry of Housing and Urban Affairs and National Smart Grid Mission, Ministry of Power Government of India.

Metering India 2019 was inaugurated by President IEEMA, Mr. Harish Agarwal. Mr. Elad Shaviv, CEO of Israel Smart Energy Association delivered Keynote address. There were total 5 technical session and 3 panel discussion exploring the technical aspects and policy perspective. The two days technical Seminar was followed



by a technical tour to Smart Grid Knowledge Centre, Manesar with support of NSGM & Power Grid where more than 60 delegates participated.

Seminar Highlights - Numbers Yet to be Updated

- 550 + Participants
- 180 Participating Organization
- 230 Participants from 60 utilities
- **19 Sponsors**
- Participation form complete ecosystem of Energy Meters such as

Utilities, Regulators, , Consultants, Franchisees, Institutions, Testing Labs, System Integrators, IT Solution providers Meter Manufacturers and other Component Manufacturers.

MV & HV Switchgear Division



- **Industry Size**
- INR 4169 Crores
- Imports Exports
- INR 1585 Crores INR 2130 Crores
- Number of members in
- the division Division
- 69 organisations

26th February 2020, Vadodara

26th March 2020 (Web)

22nd May 2019, Mumbai Meetings : 26th September 2019, Mumbai 24th December 2019, Mumbai

:

:

·

:

- Number of division meetings
- Average Attendance :
- Divisional Events/ Conference
- 5 nos. (Five)
- 13 Nos.
- None



Summary of division meetings: Objectives/Key discussion points and achievements

State of the Industry: to be discussed in upcoming division meeting on 25th June 2020

Key Discussion Points:

1. Requirement of Medium voltage short circuit laboratory in India

ERDA made a detailed presentation among the MV HV SWGR division members and had requested support from IEEMA for establishment of MVSC laboratory.

Members welcomed the proposal from ERDA, however it was suggested that IEEMA will first evaluate/assess the quantum of expense incurred towards testing by foreign labs outside India to justify the proposal. IEEMA requested the desired information from the members of switchgear division.

2. Test Gaps with CPRI

Members discussed that CPRI test gaps is being discussed in division meeting for the last two years, however there has been no progress after the last meeting held at CPRI in April 2018.

Members suggested to identified only 3 to 4 key points instead of following up with all issues.

3. Introduction of Government e Market Place

Government e Market Office officials participated in one of the MV HV SWGR Division and briefed members about GeM, which is an online platform where common user goods and services can be procured by the Government Ministries and Departments, Public Sector Undertakings, State Government Departments and other apex autonomous bodies of the State and Central Government. It facilitates direct e-procurement, online tendering, and reverse auction for government buyers.

Initially GeM has covered 6 product groups i.e Cable, Conductor, DTs, Energy Meters, LV Switchgear and Solar



Products, however it is difficult for GeM to upload highly technical & customized equipment's like HV switchgears and Power Transformers but once majority of the utilities, Transco's and Genco's starts their procurement of available low value products through GeM, they will come up and help GeM with manufacturers to upload these products.

Members thanked GeM for sharing the information and requested for some more time for understanding the concept.

4. Non-Compliance of Public Procurement (Make in India) Order by Central and State Utilities.

Members deliberated the subject during one of the division meeting that many state utilities are not following the Public Procurement Order. Representative from Siemens informed that they are under discussions with Ministries on the issue and suggested to initiate the activity and draft letter, which will be circulated to the Division for members review before submission.

5. IEEMA Representation to GETCO & GUVNL

IEEMA has represented to GUVNL and GETCO for having a uniform validity period for various High Voltage Switchgear equipment & Protection relays stipulated by various utilities in Gujarat.

Members were informed regarding appointment which was sought for Vice Chairman Division to discuss the subject with the Gujrat Utilities for resolution of the issue.

6. Type Test Validity

Inputs on type test validity for MV HV Switchgear equipments received members was validated by Technical Committee was submitted to CEA for their consideration. IEEMA recommended 10 years validity for Isolators, CBs and MV switchgear wr.t 7 years of CEA's recommendation. However for GIS and Hybrid Switchgear recommendation was send for 15 years.

Members were informed that rationale for the recommended validity was submitted to CEA w.r t the MV HV Switchgear Equipment's.

7. Quality Control Order of MV HV SWGR equipment-

Department of Heavy Industries had sought IEEMA comments/suggestion on bringing MV HV equipments under the purview of Quality Control Order. IEEMA vide its response to DHI had stated that MV HV switchgear are custom made products like HVDC and FACTS, they are used by qualified engineers from Utilities. Hence MV HV equipments should be excluded from the purview of QCO of Electrical Equipments.

During one of the meeting held at DHI on 24th January 2020, it was discussed that procurement of MV HV

AatmaNirbhar BHARAT

equipments are being done as per the global standards / IEC standards. However, adoption of the same as per IS Standards will take 5 to 7 Years.

Since insufficient testing infrastructure is there for the high voltage equipment in the country, hence the MV HV equipment's are kept out of Scope of the Quality Control Order.

8. Acceptance of Make in India in different utilities-Hurdle and Remedies

Members discussed during one of the meeting that few Utilities like TANTRANSCO are putting restrictive conditions in the tender documents. Members were informed by IEEMA that under the leadership of Vice Chairman MV HV along with key members had recently met CEA Chairperson and apprised him about the issue in detail.

CEA in return had written to TANTRANSCO to look into the matter to specify the technical requirement for GIS installations in line with the standard system voltage prevalent in India. However, their specific requirements of cable charging current requirement at 400kV level may be clearly indicated. The indigenous manufacturers have the technical capability to design and meet such specific technical requirement of utilities in respect of Gas Insulated Switchgear.

He also informed that IEEMA had also represented GETCO for having a uniform validity period for various High Voltage Switchgear equipment & Protection relays stipulated by various utilities in Gujarat. Members were requested to share the name of Utilities who are not abiding the Govt. directives of Make of India/Public Procurement Order, so that IEEMA can suitably represent to such Utilities.

9. Vice Chairman from Industry for ETD-08

IEEMA mentioned that Association has the opportunity to nominate industry expert for the position of Vice Chairman for the ETD-16 Committee of BIS. IEEMA mentioned that they were trying hard for many years to get an industry expert appointed as the Chairperson of ETD committees, but have not been successful. After lot of persuasion, BIS has partially agreed to our request and has now agreed to appoint industry expert as Vice Chairperson of ETD Committees.

Chairman suggested IEEMA to discuss amongst TC Committee and suitably nominate an active member from the Division for the post of Vice Chairman in the ETD-08 Committee.

10. SWICON 2020 Conference

Members discussed during the division meeting that looking at the unprecedented situation because of COVID-19 and Lockdown in the country, it is likely that Division had to postpone the date of SWICON 2020 to April 2021 or even to later date till situation normalizes.

Members present during the meeting supported the views, however it was decided to take the final call in consultation with SWICON Organising & Technical Committee Members.

Representations:

- a) Representation to Chief Secretary, Tamil Nadu vide reference no. SEC/MV HV/2019/UK/73 dated 4th November 2019 regarding Stringent Conditions in the TANTRANSCO Tender (T-2073)- restricting Participation of Indian Manufacturers by Technical Requirements.
- b) Representation to MD, GETCO vide reference no. SEC/REP/MVHV/UK/90 dated 16th December 2019 on the issue of validity of type test period for various High Voltage Switchgear Equipment & Protection relays stipulated by various utilities in Gujarat.
- c) Representation to MD, GUVNL vide reference no. SEC/REP/MVHV/UK/89 dated 16th December 2019 on the issue of validity of type test period for various High Voltage Switchgear Equipment & Protection relays stipulated by various utilities in Gujarat.







Power Transformers



• Industry Size : To be estimated

•	Exports	:	740 Crores (Source DGCI&S), MoC &Industries
	Imports	:	154 Crores (Source DGCI&S), MoC &Industries
•	Number of Organization the Division		159 organizations.
•	Division Meetings	:	11th July 2019, Mumbai
	incerings	•	5th September 2019, Bina(M.P)
			28th November 2019, Chennai
			24th February 2020, Vadodara
			24th March 2020, (web)
•	Number of Division		
	meetings	•	5 (Five)

Division meetings : 5 (Five)
Average Attendance : 22 Nos.

Key discussion points of the Division:

1. Impact of Covid-19 on Transformer Industry

During the last meeting of FY 2019-20, Division members discussed that Covid-19 situation is an unprecedented time for the Industry and the outbreak is causing far reaching concerns and economic hardship for businesses and communities across the globe.

Members discussed that the Transformer Industry was not doing well for last few quarters and with this global issue, the sector will be impacted. Chairman mentioned that because of lockdown there are problems of liquidity, uncertainty in business operations, and migration of work force. It was also informed that the present issue will not only affect the OEMs however the situation will have cascading effect on smaller companies/component manufacturers.

2. Power Transformer Quarterly Digest

Members discussed that there is need for renewed thrust upon the initiative of Power Transformer Quarterly digest started by Past chairman. Chairman Division requested Vice Chairman to lead the activity so as to cover all the activities of the division, new technologies in the area of transformers, innovations etc. Accordingly, the digest was published on a quarterly basis.

3. High Short Circuit Test Charges of CPRI and NHPTL for Power Transformers

Members discussed that despite the issue of high test charges raised repeatedly with MoP, the efforts did not yield the desired result. Accordingly, it was decided by chairman to take this effort with renewed vigour and energy.

Following actions were done to give desired impetus to this initiative:

- 1) Several representations to Ministry of Power were made indicating the issue of high test charges and global acceptance of test report from CPRI/NHPTL.
- 2) As per the input of chairman, it was proposed to conduct a power transformer division meeting in NHPTL premises which NHPTL was kind enough to agree. About 25 division members attended the division meeting followed by a face to face discussion with NHPTL to discuss various issues of members directly with NHPTL senior officials.

After the power transformer division meeting, NHPTL organised a customer meet and gave a brief presentation on the short circuit testing facilities available for Transformers. A site visit of the NHPTL lab and visit to Power Grid 1200 kV Test Station including 765/400kV Substation was also organised for the IEEMA delegation.

NHPTL when presented with the information on test charges being higher than the foreign laboratories, also assured to re look in to the test charges and offer additional discounts in order to bring down the charges.

IEEMA acknowledged NHPTL for their excellent coordination with IEEMA Members for ensuring maximum participation of all delegates and making the meeting a great success.

3) IEEMA presented the latest quotations received from few member organizations, which is not sufficient to establish the correlation of high test charges. The information is being refined and made more adequate in order to make a proper case.

4. Power Transformer Standardization Manual:

Power Transformer Standardization Manual being prepared by Central Electricity Authority, Ministry of Power is under advanced stage and is likely to be completed by May/June 2020. The objective of the manual is to standardize specifications of Power



Transformers & Reactors which could help in faster delivery of transformers, thereby ensuring speedy implementation of transmission projects, facilitate interchangeability and help in avoiding repetition of type test and short circuit tests.

The Chapters assigned to IEEMA members (Chapter-5{Contract drawings}; Chapter-6{Design Review}; Chapter-9{Reference Standards and Documents}) were submitted to CEA to for their review and finalisation.

5. Amendment required in PV circular of Transformers

Vice Chairman during one of the division meetings discussed about the issue raised by members of DT division to issue amendment in the PV circular of Transformers.

Distribution Transformer Division had proposed to change the definition & nomenclature of Distribution Transformer as ratings up to 25 MVA and Up to 33 KV and Power transformer to 'ratings above 10 MVA And Voltage above 33 KV.

Members advised to revisit the decision/report of the committee who had earlier worked out the definition/nomenclature for taking appropriate decision on the matter.

This activity is assigned to a specific committee and shall be completed in the next 2 months.

6. Indian Transformer Industry details submitted to Department of Heavy Industries:

Division Members were informed that Department of Heavy Industries (DHI) had requested IEEMA to provide information related to total production, import export figures for the last 5 years, problems faced by indigenous domestic industry, present technology level of the world and the gaps w.r.t to the Indian Industry, specific government interventions needed to make Indian transformer industry a global player.

Information received was collated and submitted to DHI after discussion with Chairman & Vice Chairman.

7. Alternate to L-1 procurement

IEEMA secretariat mentioned that had taken this subject very aggressively with the Government, where association is trying to identify alternatives to L-1 procurement practice in order to influence the government for bringing in policy level changes in the public procurement.

It was mentioned that L-1 is the most common practice in the Government procurement for awarding contracts. Many a times, the life cycle cost is not considered and the order goes to the lowest bidder resulting in the quality suppliers lose business due to cutthroat prices competition.

This practice is also one of the major reasons for lack of R&D and product innovation in our industry.

Chairman stated that the initiative is good and

suggested to lead the activity from the Power Transformer division. The way forward and the strategy to take up this matter with respective stake holders shall be formulated in the coming months.

8. Vice Chairman from industry for ETD 16

IEEMA mentioned that Association has the opportunity to nominate industry expert for the position of Vice Chairman for the ETD-16 Committee of BIS. IEEMA mentioned that they were trying hard for many years to get an industry expert appointed as the Chairperson of ETD committees, but have not been successful. After lot of persuasion, BIS has partially agreed to our request and has now agreed to appoint industry expert as Vice Chairperson of ETD Committees.

After due deliberations, Mr. C. Jayasenan from M/s. Siemens Ltd. was recommended from the division for the post of vice chairman of ETD-16.

9. TRAFOTECH Workshop 2020

Members discussed that because of COVID-19 pandemic, TRAFOTECH Workshop 2020 planned on 10th & 11th September 2020 has been postponed. It was decided to do the conference in 2021 when the situation will be stabilized.

Achievements:

- 1. Active engagement of the division in the formulation of Power Transformer Standardization Manual prepared under, Central Electricity Authority, Ministry of Power.
- 2. Under the leadership of Vice Chairman, Division along with few key members took up the subject of high short circuit charges levied by NHPTL in comparison to other foreign laboratories. The subject was discussed in detail and NHPTL informed that they had received similar request from many manufacturers. NHPTL mentioned that they are in process of rationalising the charges in consultation with their management board.

Representations done by IEEMA Power Transformer Division during April 2019 to March 2020:

- a) Representation made to Director (Operations) MSETCL vide reference no. SEC/PT/DIV/UK/45 dated 10th July 2019 regarding Extension in the Tender Submission date and Concern on the delivery terms by MSETCL for Supply Power Transformers
- Representation to Chairman, NHPTL vide reference no. SEC/REP/DIV/TRF/UK/85 dated 29th November 2019 regarding High Testing Charges levied by National High Power Test Laboratory Pvt. Ltd. (NHPTL) for Short circuit Test of Power Transformers.
- c) Representation to Chief Engineer/ P&MM, TANTRANSCO vide reference no. SEC/PT/DIV/UK/2020 dated 25th March 2020 for Extension in the Tender Submission date for Supply Power Transformers to TSTRANSCO.

IEEMA Statistics- Production Trend:



Public Policy Cell



The Public Policy Cell was re-constituted by the Executive Council in 2019-20, under the Chairmanship of Shri Raj H Eswaran, IEEMA Past President and Managing Director, Easun-MR Tapchangers (Pvt) Ltd.

The Chairmen and Vice Chairmen of IEEMA Product Divisions are the ex-officio members of Public Policy Cell, besides other nominated members from the industry.

The Cell conducted three meetings during this period and deliberated on competitiveness of domestic electrical equipment industry and the issues related to surge in imports of electrical equipment, especially from China.

IEEMA, through the Public Policy Cell, on several occasions in the past, cautioned the various Indian Government agencies about the security threat to Indian power sector due to influx of purchases from manufacturers based in China. This threat is dire as most of these manufacturers are directly or indirectly state owned and State continues to be a major economic and business activity player in China, with many decisions not taken by business entities alone. IEEMA had highlighted the grave security threat posed by Chinese electronic products (comprising of both hardware and software) like Protection Relays, Remote Terminal Units, Feeder Automation, Sub-Station Automation and SCADA systems, which if misused can cripple our power sector. The Chinese suppliers have been quoting unrealistic prices levels, which was strategic and were continuously spreading their base across power transmission and distribution utilities (both at the Central and State level) for various equipment. The Government of India, through the Ministry of Power, put a restriction requiring permission of the government for importing end use equipment or components from prior referral countries, including China.

The other issues addressed by the Cell and represented to the Government were Disadvantages due to concessional project imports under chapter 98; Nonrecognition of CPRI test certificates by some foreign power utilities; Non-tariff barriers faced by Indian exporters; Adverse impact of Reverse Auction mechanism, Public Procurement (preference to Make in India) Order, Impact of Regional Comprehensive Economic Partnership Agreement on the domestic industry, Alternative mechanism to L1 procurement by the Government agencies, Outstanding payments to the electrical Industry and Replacement of equipment performance guarantees with insurance guarantee etc.

The Cell also represented the issue of lower credit rating of the electrical industry in the eyes of banks and financial institutions, due to industry getting clubbed with the power sector. Therefore, any delayed payments from the Government and Utilities itself, has a cascading effect on the credit worthiness of the industry. It was appealed that the Indian electrical equipment sector, contributing to the nation building, to be treated as a significant part of the Capital Goods Sector and not the Power Sector.

The Public Policy Cell maintains a knowledge base on product-wise imports and exports of electrical equipment and shares this information to product divisions from time to time. The Cell also plays an advisory role for IEEMA Product Divisions by suggesting suitable remedial measures for safeguarding the interests of the industry.



Renewable Energy and Storage Division



•	Number of members in the Division	:	55 Organizations.
•	Total Renewable Generation Capacities during FY 2019-2020	:	Estimated 11.5 GW out of which 7.2 GW Utility Scale Solar, 1.9 GW Roof Top Solar and 2.4 GW Wind
•	Division Meetings		
	(FY 2019-2020)	:	6th May 2019 , New Delhi 29th July 2019 , New Delhi 21st December 2019, Gurugra
•	Number of Division meetings	:	3 no's
•	Average Attendance of meetings		12 organizations.
	ormeenings	•	

State of Industry:

Sector Overview: In the last few years, India has been making huge strides in transitioning to renewable energy, and is today, one of the top 5 countries in the world utilizing solar power. India stands third in terms of renewable power, fourth in terms of wind power, and fifth in terms of solar installed capacity. Excluding large hydro above 25 MW, installed capacity of solar energy registered the highest growth. It grew from 2.6 GW in March 2014 to 34.4 GW in February this year.

The current domestic manufacturing capacity for solar

cells in India is approximately 3GW-4GW and for module manufacturing is approximately 9GW-10GW annually.

As a key measure this year, the Ministry of New and Renewable Energy (MNRE) has recommended imposing basic custom duty on imported solar cells and modules. In addition, to focus on domestic manufacturing, the ministry has brought in a manufacturing-linked tender where the subsidy is inbuilt.

However, there is still a long way to go, and to make renewable energy a successful source to answer India's power needs, it is important to have a means to store the surplus power generated by Renewables. Now a days energy storage solutions provides a flexibility to store power and use them as and when desired. In fact, energy storage is finest way to reduce carbon footprint and drive the country's clean energy agenda.

Battery storage systems are emerging as a potential solution for integrating solar and wind renewables in power systems across the globe. The systems have the unique capability to absorb quickly, hold, and then reinject electricity

The key concerns are that Country is progressing slowly due to policy tangle and land acquisition issues and in the second half of the year demand for the renewable have dropped due to slowdown. Another key concern is large dependent on imports especially in the case of solar deployment; 80-90% solar deployment in India is still dependent upon imports. Solar manufacturing industry still awaits a dedicated manufacturing policy to incentivize solar manufacturing. Industry is still hopeful and positive that future belongs to Renewables and Energy Storage in a large way and the opportunities in the coming days are endless.

Summary of Key Discussion points:

RCEP and its impact on Renewable Energy sector

The subject is discussed and it was concluded that Solar sector being one of the strategic market for India, hence Solar Modules and Cells to be kept outside of the ambit of RCEP and government may implement various trade remedies like safeguard and Anti-Dumping on Auto Mode if the industry needs to be included.

It was later shared that Solar modules and Cells are kept in exclusion list and India have moved out of RCEP discussion for time being.

PPA issue in States

m

Renegotiating of PPAs in some states specifically Andhra Pradesh in the wake of political developments have negatively affected the manufacturing industry.

PPAs are legally binding contracts.

This move have greatly impacted investment into the







state as well as the country

Projects are stalled, payments are pending due to the issue and the state policies ultimately take a bow from this move.

Members met with AP Renewable agency and have discussed the issue in depth after which the subject got diluted.

Training for State Utilities (DISCOMs)

Members appreciated the IEEMA initiative in providing training to State Utilities on all Major products. It was shared that request for training was received from Assam Utility for Renewable Energy.

Members were requested to share their interest in providing training to utilities across the country

WTO decision on Indian Export

measures

India suffered a setback at the World Trade Organization (WTO) in a dispute against the US that had challenged its key export subsidy schemes including the one for special economic zones. The Panel body of WTO has ruled that these export subsidy programs violated provisions of the trade body's norms.

The other affected schemes are - Merchandise Exports from India Scheme (MEIS), Export Oriented Units Scheme and sector specific schemes, including Electronics Hardware Technology Parks Scheme and Bio-Technology Parks Scheme; Export Promotion Capital Goods Scheme; and Duty-Free Imports for Exporters Scheme.

India has filed an appeal at Appellate body against the ruling of panel body at WTO. Currently Appellate body at WTO is dysfunctional due to absences of adjudicators. Hence currently India's appeal is pending and India is not bound by penal body's ruling regarding the export measures.

Solar PVC

Through extensive consultation within Renewable Energy and Storage Division members, IEEMA has evolved a draft

Price Variation clause for Solar Power Generating Systems – complete with all components and accessories. Subject was discussed with MNRE and the discussion on prices sources wither domestic or international is holding the key for introducing the Solar PVC which members are hopeful will be achieved shortly.

Insurance for Renewable Energy Projects

The subject of replacing Bank guarantees with Insurance or similar instrument were discussed and the same is being represented to various stakeholders for consideration.

Renewable Energy Pavilion at ELECRAMA 2020

3rd edition of Renewable Energy products and Solutions were displayed at ELECRAMA-2020.

The objective of this pavilion is to connect the renewable energy sector which traditionally comprises of manufacturers of products and solutions, to interface with the rest of the electrical ecosystem of end customers and users; namely private and public utilities, independent power producers and micro grid network operators.

Representations made:

- Basic Custom Duty (BCD) on Solar Manufacturing Facilities located in Special Economic Zones (SEZ)– IEEMA submitted a representation before Ministry of New and Renewable Energy to exempt the DTA removals of modules and cells from SEZ units from Basic Custom Duty in case it is decided to levy BCD on Solar cells and modules.
- Impact of US decision to terminate the designation of India as a beneficiary developing country under the GSP on PV cell and modules manufacturers in India
- Prospective amendment in rate of GST for EPC contract for setting up of Solar Power Plant on Turnkey basis - IEEMA submitted a representation to Ministry of Finance, GST Council and MNRE to address the issue.





Rotating Machine Division



Industry Size		INR 9500 Crores estimated
Exports	:	INR 2251 Crores till December 2019
Imports	:	INR 2254 Crores till December 2019
Number of Members		
in the Division	:	64 Members
Division Meetings	:	24th May 2019 at IEEMA, Mumbai
		16th September 2019 at IEEMA, Mumbai
		19th December 2019 at IEEMA, New Delhi
Number of		
Division meetings	:	03 (Three)
Average Attendance	:	15 (Fifteen)

State of Industry

The electric motors market is highly fragmented owing to the presence of a large number of players including major companies and medium/small-sized enterprises. Product innovation and technological advancement such as energy efficient motors with significant power saving capability have steered higher adoption of electric motors in recent years across several segments such as automotive, manufacturing, HVAC equipment, Industries and home appliances in the country.

An upsurge in demand for automotive electric motors is expected over the coming years owing to rising fuel prices and stringent regulations towards reducing the air pollution level across the nation. Additionally, FAME II scheme for 100% vehicle electrification, Make in India program and other initiatives to achieve India's target of becoming a global manufacturing hub would continue to boost the demand for electric motors in the country..

AC electric motors segment captured the majority of the revenue share in 2019-20 of India's electric motors market overview followed by DC Motors. Among voltage levels, low voltage motors segment bagged the highest revenue share in 2019-20, however, with growing usage in the industrial segment, medium voltage is projected to exhibit the highest growth over the coming years.

Major concern of the motor industry is price margins and intense competition.

AC drives coupled with motors is the new reality for the sector.

Summary of Key discussed points:

Omnibus Technical Regulations (OTRs) for safety on Machinery

The subject was discussed in details during divisional meetings and it was concluded that many mandatory standards are in place for various products and are getting streamlined slowly.

OTR were identified classification for Machinery safety as based on risk assessment methods defined. This classification is more suitable for machines sold based on standard set of features. But, significant part of machines or assembly of machines are custom built machines for special purposes. Current risk assessment approach need to provide clarity about how these should be assessed

On the other hand it may be argued that motors like "Flame proof" motors have a requirement to have a risk category. But people manufacturing these anyway get their products certified

For the Safety on Machinery compliance, industry needs minimum time of three to five years. It was informed that motor manufacturers can no way guarantee as to how their product is being used. They could be stuck with product liability costs which can be astronomical for no fault of theirs.

As a whole, if government is able to come with some sort of voluntary method like ISO 9001 and companies that want to can apply and get a certificate, it will be much





better. If that is not the case, it is highly recommended that HSN code 8501 is not included in the scope.

QCO on Power Semiconductors

Members discussed the subject and opined that

- o Standards covered under QCO does not define anything clearly
- o Above 1 KVA everything is covered for eg: solar charger, UPS, converter, rectifier, drives etc
- o The QCO must be reviewed in details since it is very generic and at least two years are required to get it implemented in true manner.

E-Mobility and Charging Infrastructure Division

E- Mobility Industry possess a huge business opportunity for Electrical Equipment Industry, specifically in areas related to Electric Motors, Drives, Charging Infrastructure, Smart grid etc.

To cater and discuss the opportunities, a new division within IEEMA is created known as E-Mobility and Charging Infra division led by Mr Mustafa Wajid, Meher Group.

Members from Motors and Drives industry are part of the division amongst other division members.

Import duty on waste and scrap of copper

Members discussed the subject of movement from importers of scrap to get the customs duty waived off completely for copper scrap. RM division shared strong objections regarding the same and prefer status quo instead of incentivising the importers

It was informed that most manufacturers knows where their winding wire is coming along with the processes followed. But if import duty on scrap is removed, industry will not be able to ensure the correct quality receipt as the temptation to use scrap material will be quite high in winding wire eventually.

Thus R.M Industry recommend a status quo on this issue both from our product quality impact as well as the environmental impact at large

As a progressive industry, we seek to make 100% sure that the copper we use is of purest grade, oxygen free and highest quality. We are worried that scrap copper in raw and more dangerously as part of other items like brass should not find its way to winding wires as we will never be able to distinguish the quality till we manufacture and test our product

Effectiveness of QCOs for the industry

QCOs while required in theory is absolutely difficult to

implement in practise. Instead of working to reduce low quality imports, it is effectively putting MSME motor manufacturers into trouble. Additionally, there is massive inconsistency during certification in different branches of the certifying agency with basic metrics not understood. Additionally, this has not stopped low quality imports which are finding innovative ways to circumvent the QCO. QCOs for raw materials of RM division seeks to put the onus of the quality on the user rather than the seller which is normally the norm and thereby could add potential compliance issues and increase of costs especially for MSME manufacturers.

Reporting Structure for IEEMA Statistics

The subject of Production statistics were discussed and deliberated in length and the format is revised to capture the production of IE2, IE3 and IE4 motors and the relevant frame sizes were redefined to make the data more useful for the stakeholders.

Smart Grid Division



- Number of Members in Division
- **Divisional Meeting**

45

29th April 2019 27th September 2019 19th November 2019 14th December 2019

Number of Divisional meetings

- Average Attendance

4 (Four)

15

Summary of division meetings: Objectives, key Discussion points and achievement

- At the beginning of the financial year, the Division decided to focus on following activities:
 - Working on Value proposition of Smart Grid Technology
 - Knowledge Sharing Session for Utilities Interface with Bureau of Indian Standards Working on Cyber Security for Power Sector Interface with Key Decision Makers in Smart Grid
- Domain
 The Technical committee was revamped and experts from other domain has been bought into the group as invitees
- The Technical Committee has identified following priority areas and Started working on it:
 - DISCOM IT maturity level assessment
 - System interoperability
 - Active and reactive Controller
 - Asset Performance Management
 - Smart Grid Test Lab
- Smart Grid Division has been Co-opted in various groups of Bureau of Indian Standards such as LITD28, LITD10, Panel 2 on Security, System Committee of Smart Energy and representative of Industry
- There has been many round of focused meeting in the Technical Committee and group is at advance stage of releasing the document.
- The Division is at the verge of release of White paper on addressing cyber security threat to grid infrastructure.
- The Division has prepared the draft plan to reach out to key decision makers to sensitise them about cyber security as subject and how India Grid can be made more secure and resilient.
- The Division took initiative of conducting knowledge sharing session for members under this initiative sessions were organised on following topics:
 - o Power Trading Platform
 - o Blockchain and relevance in Power System
 - o Energy Storage
- All the material of the knowledge sharing session have been widely circulated among IEEMA members specially the Block Chain session for which the video link has also been shared
- The Division has taken initiative to Invite all key stakeholders of ecosystem on board and discuss the areas of concern which can be voiced from IEEMA's platform

- There has been number of meeting with key stakeholders such as MoP and NSGM on various smart grid related issues, the core of the discussion were enhancing the capacities and capabilities of DISCOM officials.
- The Division members participated in CEA meeting and gave their inputs on CEA on reports on "presence of some of the equipment of foreign make in transmission system is vulnerable particularly for the perspective of security of the grid" and discussion on "Methodology to be proposed for detection of Malware in hardware component of Power sector both reports is available with IEEMA for members reference.
- Division members actively contributed in shaping the 3rd edition of World Utility Summit 2020 which was a bench mark event during ELECRAMA 2020.

IEEMA Smart Grid Division Mission:

"Enabling Indian Electricity infrastructure to become resilient, sustainable and secure..."

SME Division



More than 75% of IEEMA membership consist of Small and Medium Enterprises. This section of Industry is important for achieving growth and employment. SMEs are the back bone of our Economy and at IEEMA we support this statement.

SME's face challenges of availability of finance, access to market, access to technology, compliance to a plethora of rule and regulations and delayed payments.





To support and strengthen the SMEs, SME Division of IEEMA has conceptualized *"SME Clinique"*.

SME Clinique empanels Consultants/ Specialists who specialize in disciplines useful to Industry. They form the *SME Clinique of IEEMA*.



The partners of the Clinique are available for issues pertaining to Fund Raising, M&A, Bank Finance, Legal Matters, Estate Planning and Will, Wealth Management, Succession Planning and ERP Services.

IEEMA encourages its SMEs to take advantage of this service by reaching out to consultants empanelled with SME Clinique.

Participation in Exhibitions: Apart from engaging with other stakeholders with in the Government and other Associations, IEEMA has been supporting SMEs to promote and propagate themselves at various exhibitions organised by IEEMA in India.

These exhibitions showcase the SMEs at the National and International Arena. It gives them the opportunity to upscale themselves and upgrade their services to become competent and self-sufficient to make their place at the International Markets.

The National Small Industries Corporation, (NSIC) Marketing and Procurement is one such scheme of Ministry of MSME where SME can participate with a funding, provided by the Ministry.

IEEMA had organised NSIC Pavilion at ELECRAMA 2020, where more than 25 SMEs had participated. The Pavilion was Inaugurated by CMD NSIC Mr Vijayendra along with Mr P Udaikumar Director – P&M.

We have been engaging and submitting representations to the Government to upscale our SMEs



Surge Arrester Division



- Industry Size : INR 250 Crores
 - : INR 51.4 Crores
 - Exports : INR
 - Imports : INR 9.3 Crores
- Number of Members in the Division : 25 organizations (including Surge Arrester manufacturers, Manufacturers of accessories & component, EPC Contractors and others)
 - Division Meetings : 29 July 2019 11 September 2019 09 December 2019 20 February 2020
- Number of Division meetings : 04 (Four)
 Average
 - Attendance : 06 (Six)

Summary of Division meetings: Objectives/ Key discussion points & achievements

The industry witnessed better first quarter of FY with 15-20% growth in upto 216 KV segment. However not much growth was observed in EHV segment. Distribution side also saw some enquiries in domestic segment in LV/MV range. However actual conversion rate was observed to be low as compared to the flow of enquiries.



Quarter two of the financial year was also not very promising with the general downtrend observed by the industry. Renewable segment was also having projects on fast track basis, however there was no substantial volume for the industry in renewable segment.

Third quarter also saw downtrend in the business, especially in distribution business. Entry of unorganised sector into distribution business also distorted the market further.

The general trend observed was exports were more for surge arresters with polymer insulators than the surge arresters with porcelain insulators. However the domestic demand was observed more in SAs with porcelain insulators.

The main concern felt by the industry in last quarter was the delay in raw materials like blocks, polymer insulators etc due to effects of Corona Virus outbreak.

The industry faced following issues:

1. increasing raw material prices,

- 2. pressure on final prices of the equipment and delayed payments
- 3. Buyers ask for bank guarantee to participate in the tender
- 4. Type testing charges are very high, sometimes costlier than the main equipment cost.
- 5. Testing schedules are also not appropriate

The division took up following activities during the year FY 2018-19:

Mandatory BIS certification – IS 15086 (Part 4): 2017 – Interaction with BIS

BIS had communicated about bringing surge arresters under mandatory certification under the standard IS 15086 (Part 4): 2017. The members were of the opinion that the IEC 60099-4, ed. 3 2014 is an exhaustive standard and many specific tests have been modified/introduced to ensure reliability of the Surge Arresters. Compliance to the test requirements of the above specification by manufacturers will eliminate all possibilities of substandard Surge Arresters being supplied by the unorganized sector.

The industry felt that there was no need to go for mandatory BIS certification of Surge Arresters and strict compliance to the IEC 60099-4-Ed 3 2014/IS 15086-4-2017 standard should be implemented by Utilities to ensure that good quality surge arresters are manufactured and supplied. The same was discussed and conveyed in the BIS ET 30 meeting held on 30 July 2019.

A draft on transmission lines arresters

As discussed in BIS ET 30 committee meeting and suggested by the chairperson of the committee, a draft on transmission line arresters was prepared by the division and the same was submitted in December 2019 as discussed and agreed in BIS meeting held on 30 July 2019.

T&D Projects Division



- TLT Industry Size : INR 7650 Crores
- Exports
- : INR 2478 Crores
- Imports
- : INR 27 Crores
- Number of Members in the Division
- : 150 organizations (including EPC Contractors and others)
- Division Meetings : 10th May 2020, Kolkata

25th July 2020, New Delhi 16th September 2020, Mumbai 15th November 2020, New Delhi 31st March 2020, Over Web

- Number of Division meetings : 05 (five)
- Average
 Attendance : 25 (Twenty Five)



Summary of Division meetings: Objectives/ Key discussion points & achievements

Standardization of Commercial Terms and Conditions:

In the past Division had worked on Standard Bidding Documents with PGCIL and MoP however after several attempt it could not be taken to conclusion, Members deliberated that considering the federal structure of India the issues related to commercial terms and conditions of the contracts needs to be addressed at state level and accordingly following states were identified to start the activity on pilot basis;

Telangana

Rajasthan

Tamilnadu

A Small committee was formed to work on above states, it was decided that while working on this commercial points it should be clear that commercial points are not related to operation and payment but rights and obligation of the contract. Due to impact of COVID19 the activity couldn't be taken forward however, once the situation normalizes the same will be taken up with identified states for logical conclusion.

Study on addressing Transmission bottlenecks by E&Y:

The Division completed that Study on challenges faced by the EPC industry in executing the transmission and sub-transmission line and Substation projects.

As a part of the study, conducted in consultation with Central Transmission Utility, selected State Transmission Utilities (15 STUs) and EPC players, more than 1600 under construction EHV line and 1200 EHV substation projects were analyzed. A quick dip analysis of these projects indicates that approximately 32% of line and 30% of substation projects are delayed.

The report were shared with the members who have contributed financially in carrying out the study.

Gist of the report was submitted to Secretary Power and Parliamentary committee and Division has sought time to explain the same to key decision makers. Due to the pandemic the priorities at Ministry level has been changed, the issue will be take up as soon as situations normalizes. Further, to sensitize the key stakeholders and decision makers division has also planned a workshop so that the findings are understood and recommendations are implemented.

Presentations by Invited Experts:

• Presentation on Insolvency & Bankruptcy Code: IEEMA had invited experts from National E-Governance Services Limited to apprise the members about "The Insolvency and Bankruptcy Code, 2016" and serviced of NeSL NeSL's role is to facilitate timebound resolution by providing verified information to adjudicating authorities that do not require further authentication.

Presentation by Feedback Infra Pvt. Ltd

Division members were approached by Feedback Infra Pvt. Ltd. And accordingly a session was organized on "Improving EPC Project Performance". Where they presented the technological interventions that will help improving the project performance. The presentation is available with secretariat

• Activities during lockdown during COVID-19:

After Announcement of lockdown, a Special division meeting was convened in order to understand key pain points that can be voiced from Division for immediate redressal. Following key issues were discussed.

- Pursuance for release of overdue outstanding
- Acceptance of Bills through email
- Release of retention Money
- Release of Old bank guarantee
- members were requested to share their outstanding figures with secretariat and accordingly a representation will be made, this exercise was done at large level covering all members and the combined outstanding as reported by members stood Rs. 15000 Cr. A representation in this regard was submitted to all State Energy secretaries and heads of concerned MDs/CMDs of utilities. The concern was also highlighted to Hon'ble Power Minister in one of the Interactive session with him.
- Recommendation of T&D Projects Division were included in various representations sent to Various Ministries and State Utilities.
- Members also discussed that as per MHA advisory constructional activities is to be started however, implementing the advisory will bring additional obligation to contractors which is not there in contract and cannot be qualified under force majeure clause (as it only talks about time extension and not the compensation), members opined that these additional implication should qualify under 'Change in Law' and thus additional expenses to be reimbursed by principle employer" It was advised that IEEMA will take legal opinion in this regard. Based on the member's advice IEEMA has consulted lawyer and obtain the legal opinion. The legal opinion was circulated among the members for their reference.



AatmaNirbhar BHARAT

• Interactive session with CMD Power Grid Corporation of India Ltd. Shri K. Sreekant:

An interactive session was organized with CMD PGCIL Mr. K. Sreekant and senior PGCIL officials. Members apprised CMD PGCIL about the issue of cash flow and also requested his views about business going forward, CMD PGCIL informed that at the moment the main concern is labours which are stuck at various site. He also advised industry to take care of the labours at site. Regarding improving the liquidity he mentioned that most of the bills that have been received by PGCIL they payments are being made on priority basis. Also PGCIL is accepting the bills over email and processing it on priority. CMD PGCIL mentioned that going forward the PGCIL's liquidity is going to be impacted however he assured that all efforts are being made to release payments to industry. Regarding pipe line of tenders the time lines will be stringent and industry was requested to be ready and not to ask for time line extension.

Divisional Events / Conferences:

T&D Conclave – 2019

The 13th T&D Conclave was held on 20st December 2019 in Delhi. Attended by more than 300 participants, the Conclave saw eminent technologists and thought-leaders sharing their views with the T&D industry fraternity.





The one day event held at Hotel Vivantha by Taj, Delhi started with a Panel Discussion on "One Nation One Grid " The distinguished Panelists were:

- Mr. I. S Jha, Member CERC
- Mr. S.K. Ray Mohapatra, Chief Engineer, CEA
- Mr. Ghanshyam Prasad, Chief Engineer, MoP
- Mr. S. K Mishra, Director, SECI

The panel discussion was followed by expert talks from luminaries form different walks of life, following guest speakers graced the 13th edition of T&D Conclave.

- Mr. Neville Gandhi, Vice President (Compliance), Siemens
- Mr. Prabir Jha, Human Resources leader and TEDx speaker
- Mr. Sunil Gupta, Former Legal Advisor, Tihar Jail
- Mr. Kapil Dev former Captain, Indian Cricket Team was also invited and scheduled to give a talk in the conclave however, due to then ongoing riots in certain part of Delhi he could not join and rather sent a video message for the audience. Latter he joined CEO summit in ELECRAMA on request of Chairman T&D Division.

The 13th Conclave got support from 36 Co-hosts, and once again the largest congregation of sponsors or Co-hosts ever seen in any IEEMA event to date.



68 || Y 🔐 🏠



Winding Wires Division



 Industry size 	:	Rs. 14,850 crs (estimated)
 Imports 	:	Rs. 1250 crs
 Exports 	:	Rs. 879 crs
 Number of Members in 		
the Division	:	34 Organizations
Division Meetings	:	10 April 2019
		27 July 2019
		28 September 2019
		12 February 2020
Number of Divisior	n	
Meetings	:	04 Nos(Four)
 Average 		
Attendance	:	09 Nos.(Nine)

Summary of Division meetings: Objectives/ Key discussion points & achievements

State of Industry:

The financial year FY 20 started on a slow note. Industry was going through many changes in terms of volume, prices and quality. The first quarter of year also observed downtrend in business. Though market was growing but business model was observed to be changing. As per demand, manufacturers increased the capacities, however prices remained sensitive.

A lot of developments were witnessed in electrical vehicles (EV) segment so industry was hopeful about the huge demand in this segment. Even rotating machines also showed huge developments.

However first 2 quarters of FY 20, the industry scenario was not promising due to slowdown. Even with the large corporates, low volumes of business are observed.

Members informed that automobile sector had dipped by 60% which affected winding wire industry.

However third and beginning of fourth quarter saw little spurt in growth. The industry didn't find the budget presented by Govt. very cohesive for pumping money in the economy. The EHV transformer business had also gone flat. Industry needs adequate capital from the government to keep with the payments.

Beginning of the last quarter saw slight improvement in demand which was attributed to reduced material import from China, owing to corona virus spread. Also many companies are coming up around Delhi region producing winding wires from the scrap.

While many other segments are going stagnant, appliances segment is picking up. Automotive segment is not showing positive trend.

With regards to the copper as raw material, after shut down of one of the Copper Smelter plant of the country, industry started facing raw material shortage but owing to import from different countries (mainly ASEAN countries) at preferential duty, members have not faced much problem but lately even after strong representation from industry, as well as IEEMA, the Anti-Import duty has been imposed, which has now made import unviable. Now whole country is dependent on very limited sources for getting raw material.

The division took up following activities:

- The idea of publishing quarterly bulletin on behalf of the division was floated in the last division meeting. Members had discussed that content like manufacturing process, standards, and applications should be covered in the bulletin. To begin with, members planned to publish literature, which can be circulated to right users. Initially users defined in two categories 1, small rewinders segment and 2, winders in industry.
- 2. Half day workshop, where suppliers, users, manufacturers will be on the same platform. This activity is under discussion.
- To join E-mobility division which has been recently started by IEEMA.
- 4. Winding wire industry special issue of IEEMA Journal (October 2019 issue)
- 5. 4 new members were added to IEEMA and the division

Some issues faced by the industry are as follows:

- 1. Increase in Imports of Aluminium.
- 2. Bigger OEMs have also started importing directly from China
- 3. Liquidity crunch



AatmaNirbhar BHARAT

Other Major Representations 2019-20



Restrictive Tender Conditions of State Grid of China

IEEMA represented to Shri Piyush Goyal, Hon'ble Minister of Commerce and Industry and Railways on the tender contents of the State Grid of China which is restrictive in nature and should attract similar conditions by Indian Power Utilities on the principle of reciprocity on Chinese companies.

The Government of India put a reciprocity clause 10 d in the Public Procurement (preference to Make in India Order) 2017

Delayed Payments by Utilities, Central PSUs and the Government Departments

IEEMA represented to Shri Arvind Ganpat Sawant, Hon'ble Minister of Heavy Industries and Public Enterprises, about severe hardships faced by the Indian electrical industry on account of delayed payments from the State Utilities, Central PSUs and other Government Departments, running into several crores of Rupees, causing a huge stress in the working capital of these companies.

In the representation, it was mentioned that many of the suppliers are small and medium enterprises with limited financial resources and are on the verge of closure. This also has a cascading effect in the banks and financial institutions of that company's account, as the same gets clinically classified into an NPA after passing of 90 days of time.

Later the power utilities gradually started releasing pending bills of the suppliers. Government announced receivables of MSMEs from the Government and CPSEs to be released within 45 days.

Issues related to Exports / Imports faced by Indian Industry

IEEMA submitted this representation to Shri Piyush Goyal, Hon'ble Minister of Commerce and Industry and Railways after an Interactive Session with him. The Association requested for intervention of the Hon'ble Minister and his directions to keep the growth and encourage the manufacturing sector.

Various issues of the industry, such as, anomalies arising out of inverted duty structure and non-reciprocal market access and unfair tender conditions in china etc. were highlighted in the representation.

Enhancement of Exports in the Engineering Sector

Post an interactive session with Shri Hardeep Singh Puri, Hon'ble Minister of State for Commerce and Industry, IEEMA submitted its inputs on overseas trade barriers faced by Indian exporters impacting their exports and issues impacting competitiveness of Indian exporters in overseas markets.

Hardships to Domestic Electrical Industry due to Concessional Import Duty under Chapter 98

In this representation to Department of Heavy Industry, IEEMA stated that while imports of electrical equipment under Chapter 84 and 85 attract a basic customs duty, ranging from 7.5% to 10%, the same equipment are also imported under Chapter 98 (project imports) at a concessional basic customs duty of 5%, which is a disadvantage to the domestic industry. A significant portion of electrical equipment (approx. 10% of total imports) are imported under Chapter 98.

The precise reason for introducing project imports in 1986 was that domestic industry did not have sufficient capacities at that time. However, today the industry has sufficient capacities, and is operating at about 60-70% of its capacities. IEEMA recommended to revoke the provision of concessional import duty under Chapter 98.

Removal of concessional duty under Chapter 98 is under active consideration of the Government.

Challenges and Interventions to Reduce Trade Deficit with China

In its representation to the Department of Commerce, IEEMA mentioned that in 2017-18, India's electrical equipment exports were only Rs. 41,677 crore (around USD 6.46 billion). The top 10 countries where exports of





Indian electrical equipment took place were USA, United Kingdom, United Arab Emirates, China, Germany, Bangladesh, France, Singapore, Vietnam and Saudi Arabia, which testifies to the quality of electrical equipment manufactured in India.

However, the Indian industry is not able to compete effectively in the world market because of strong support of governments of some countries to their industry, like China, Brazil, South Korea and Russia, in terms of export subsidy, subsidy on raw material, subsidy on social security, and long-term line of credit at low rates of interest, which are also helping those countries in their economic development. IEEMA recommended some specific measures to increase exports of electrical equipment, such as, reduction in transaction costs of exports, improvement in port infrastructure, Competitive Policy Support of the Government, Review of Trade Agreements, Funds Availability and Long Term Buyer's Credit, Support from Indian Missions Abroad, Removal of Technical Barriers, Carrying out projects on R&D, more participation of industry in International Fairs, Trade Delegations and Buyer-Seller Meets etc.

China's share in Indian imports of electrical equipment increased from 15.26% in 2005-06 to 35.40% in 2017-18 at a CAGR of 20.46%. The share of China's exports of electrical equipment to India, out of its total exports of electrical equipment to the world, is estimated to be only 3% - 4%. This makes the share of India's imports of electrical equipment from China as 35.40% (out of India's total imports of electrical equipment from the world). If this share of Chinese exports to India increases by even 1%, it would have a significant adverse impact to the Indian electrical equipment industry.

IEEMA recommended some specific measures to reduce imports from China, such as, reciprocity in terms of business activity with China, removal of concessional duty imports under Chapter 98, putting up mandatory standards, insulate Indian electrical grid from cyber security threat, mandatory testing of Chinese equipment in Indian test laboratories, considering life cycle cost of equipment vis-à-vis L1 concept of procurement etc.

Later the Government of India, through the Ministry of Power, put a restriction on importing end use equipment or components from prior referral countries, including China.

Inverted Duty Structure created from NIL imports duties on Cables Terminals and Connectors

IEEMA submitted a representation to the Tariff Commission regarding adverse impact on the industry, mostly the small manufacturers, due to Inverted Duty Structure created by NIL imports duties on Cables Terminals and Connectors, under Cus- Notification No. 25/ 2005, dated 1st March 2005, whereas, the raw materials being used to produce these finished goods attract 5%-10% duties.

IEEMA appealed that NIL duty on imports of Cables Terminals and Connectors needs to be re-visited or duties of raw materials should be reduced to such levels, so as to remove the inverted duty structure.

The matter was resolved vide issuance of Customs Notification 24/2019 in Budget 2019.

Non-refund of IGST to Exporters

IEEMA submitted a representation to the Ministry of Finance on non-refund of IGST to the exporters in the month of May 2019. The association stated that due to no generation of scrolls and no IGST refund, a large number of exporters, including SMEs, were impacted and a huge amount was blocked, affecting the cash flow and operations of the industry.

The matter was resolved by release of IGST refunds by the Government to exporters.

Representation to Principal Economic Advisor on Economic Issues and Concerns

After an interactive meeting with Shri Sanjeev Sanyal, Principal Economic Advisor to the Government of India, Ministry of Finance, IEEMA submitted a representation on various economic issues and concerns of the electrical industry. The issues include, high rate of interest on domestic Industry, delayed payments by utilities, high basic customs duty of essential raw materials, such as, Aluminium at 7.5%, adverse impact of concessional duty for project imports under Chapter 98, non-consideration of electricity under GST and adverse impact of reverse auction and L1 concept for Government Procurement by the Government Utilities etc.

Levy of SD and EMD on All Tenders and Orders of Indian Railways

IEEMA represented the matter to Ministry of Railways. Indian Railways levied mandatory Security Deposit and Earnest Money Deposit (SD and EMD) on all tenders and orders under the Indian Railways Standard Conditions of Contract.

IEEMA mentioned that with the levy of SD and EMD on all tenders, the companies that submit large number of offers / tenders (above 500 tenders / month) find it challenging, due to the time consuming process and an



additional activity of making payment online for each and every tender. This adds to the complexities and blocking of working capital and also keeping a track of all such payments towards SD and EMD is a challenge. This is in sharp contrast to the objective of Ease of Doing Business and Make in India.

IEEMA appealed to do away with deposition SD and EMD, as practiced earlier for genuine approved vendors doing regular business for all tenders. IEEMA also suggested incorporation of a few additional clauses in the Indian Railways Standard Conditions of Contract, which are prevalent in the contract conditions of all other State or central government organizations / major PSUs.

Tariff Lines of Copper, Aluminium and Zinc, under the Regional Comprehensive Economic Partnership (RCEP)

The Department of Commerce, Government of India, convened a Stakeholders Consultation on Copper, Aluminium and Zinc, under the Regional Comprehensive Economic Partnership (RCEP). IEEMA submitted a representation to the Government recommending exclusion of some tariff lines related to Aluminium Conductors from the RCEP negotiations. IEEMA also presented the justifications for the same, owing to large size of this industry, share of imports from China, low utilisation of capacities and SME participation.

Later the Government of India pulled India out from RCEP negotiations, to protect the interest of the country.

Public Procurement (Preference to Make in India) Order 2017

IEEMA represented to Ministry of Power recommending increase of the threshold of INR 50 lakh to INR 500 lakh, under clause 3 (a) of the Public Procurement (preference to Make in India) Order, 2017.

IEEMA mentioned that INR 50 lakh under this clause is very low for 100% Government procurement from the domestic electrical industry for the Power Sector. For example, procurement of a single Power Transformer or Energy Meters in bulk would incur much more cost than the said estimated threshold of 50 lakh.

Later the Government restricted international bidding below INR 200 crores in its revised Order issued on 4th June 2020.

Domestic Barriers and Overseas Barriers in the Engineering Sector

The Department of Commerce, Government of India, wanted to know from the trade and industry about the domestic and overseas barriers in trade. IEEMA submitted its inputs on barriers and difficulties faced by the electrical industry, while exporting its products to other countries.

Non-Recognition of CPRI / ERDA Test Certificates by Nepal Electricity Authority

In its representation to the Commerce Secretary, IEEMA mentioned that the Nepal Electricity Authority in its tender for Design, Supply, Installation/Erection, Testing and Commissioning of 11/0.4 kV Distribution System, recommended testing certificates from ASTA, CESI, ESEF, KEMA etc. except for CPRI and ERDA, creating problem for the Indian bidder to participate in this tender.

The association appealed for immediate intervention of the Government of India, so that an addendum can be issued for this tender, wherein CPRI/ERDA names can be included in the list of approved laboratories.

Vulnerable to the Security of the Grid in respect to the Transmission System

IEEMA wrote to the Central Electricity Authority on vulnerable to the security of electrical grid which may have the possibility of embedded malware. IEEMA also submitted a list of imported equipment which pose a threat to the system.

The matter has been favorably considered by the Government of India by putting a restriction on imports from the prior referral countries, including China.

Dire state of the Indian electrical industry - request for Immediate Relief and Recovery

IEEMA represented the impact of deadly Covid 19 pandemic on the Indian electrical industry, having the small and medium Enterprises amongst hard hit.

While on one hand the electrical industry stalled operations and new orders having no cash inflows, but on the other hand, there are many statutory liabilities, such as payment of salaries to employees etc. with cash outflows and severe liquidity crunch.

The association, in consultation with the industry members collated various issues faced by the industry during this unprecedented situation and gave its recommendations for providing immediate relief and recovery to the Indian electrical industry, during the lockdown and post lockdown period.





Later the Government of India enforced various financial and policy measures to provide relief to the industry.

Waiver of Minimum Demand Charge

In its representation to the Central Electricity Regularity Commission, IEEMA mentioned that during this lockdown period the manufacturing companies has no production and no cash inflows, but on the other hand they have statutory liabilities and cash outflows towards payments of salaries of their employees.

Cost of electricity is another financial liability which the industry has to bear in this critical time. In order to provide significant relief to the industry, IEEMA recommended that the electricity distribution companies needs to waive off the levy of Minimum Demand Charge of electricity for 3 months or at least for the lockdown period announced by the Government.

Later several state distribution companies announced

waiver off minimum demand charges in their bills to the manufacturing industry.

Request to declare 'Elevator Services' as an 'Essential Services' for Unrestricted Movement of Lift Mechanics

IEEMA represented to the Ministry of Home Affairs and requested to declare 'elevator services' as an 'essential services' to enable the members of the elevator industry to provide emergency support services during the period of lockdown / curfew in all parts of the country.

It was mentioned that the Government must ensure that elevators are operating and running without any interruptions or breakdown in hospitals and isolation centres and to avoid situations like entrapment of passengers in elevators.



IEEMA in its endeavor of knowledge sharing and upgrading technical skills to match the international standards has a mandate to conduct Workshops and Training programs throughout the year for Utilities and Industry. The following training programs were conducted for Utilities at their doorsteps and for Industry at various locations during the year 2019-20.

National Workshops on Electrical Safety

CEA jointly with IEEMA, ICAI (International Copper Association) & BIS and supported by PSUs NTPC, PGCIL, NHPC, BPCL, ONGC,GAIL, HPCL etc. launched a nationwide campaign on "Awareness generation of Electrical safety", It was agreed that IEEMA will extend all support to CEA in these programmes by providing expert speakers, display products on latest technologies at respective locations and involve the Industry stakeholders. The programmes were held in various states in FY 2019-20 to disseminate the knowledge of electrical safety which if not taken seriously lead to major cause of fires. In these series the following were held:

National Workshop on Electrical Safety on 28th May 2019, New Delhi



It was organised by CEA-BIS-ICA India at New Delhi. A 2year programme calendar was announced on fire safety awareness programmes to be held in about 40 district headquarters. A safety handbook SACHET designed and prepared to know about safety precautions and the Do's and Don'ts while using electrical equipment was launched and unveiled to widely spread the knowledge amongst the stakeholders.

The first programme of the series was held jointly with CEA- Electrical Inspectorate, Government of Telangana, BPCL, BIS, IEEMA & ICAI on Electrical safety Awareness -27st June 2019 at Warangal

The second National Workshop was organised jointly with CEA- Electrical Inspectorate, Government of India, WBSEDCL, BIS, IEEMA & ICAI on "Electrical Safety Awareness" at WBSEDCL Siliguri, West Bengal on 19th July 2019



The third programme of the series was held jointly with RIO (NE) CEA- Regional Inspectorial Organisation, Central Electricity Authority, Shillong in association with IEEMA, BIS and ICAI on 10th September 2019 at ONGC, Shivasagar Assam. IEEMA helped in getting large number of **participants from different Government Bodies of the state.**

The fourth National Workshop was held jointly with Central Electricity Authority(CEA), Regional Inspectorial Organisation (West), RIO (West) – Mumbai & PGCIL in association with IEEMA, BIS and ICAI at Bilaspur, Chhattisgarh on 20th September 2019

The fifth programme of the series was held jointly with Central Electricity Authority(CEA), (RIO (North)- CEI division), HPCL & Electrical Inspectorate Government of Rajasthan - in association with IEEMA, BIS and ICAI at Jodhpur Rajasthan on 7th November 2019

The sixth programme of the series was held jointly with Central Electricity Authority(CEA), RIO (South), NTPC & Electrical Inspectorate Government of Andhra Pradesh- in association with IEEMA, BIS and ICAI on 22nd November 2019 The seventh National Workshop of the series jointly with Central Electricity Authority (CEA), (RIO (North)- CEI division), IOCL & Electrical Inspectorate Government of Rajasthan - in association with IEEMA, BIS and ICAI was scheduled on 20th March 2020 at Ajmer Rajasthan (This could not happen due to Pandemic COVID 19 spread worldwide)

Utility Trainings

Training Programme on Cables and conductors, APTRANSCO, Vijaywada, 17th & 18th April 2019

The training on Cables and conductors was held at APTRANSCO Vijaywada on 17th & 18th April 2019. The session on conductors was conducted on 17th April by Mr. Pradeep Agnihotri, Apar Industries and Cables on 18th April 2019 by Mr. S. Ramaprasath, Former Jt. Director, CPRI. About 35 engineers from Andhra Pradesh transmission Company attended the session. The excellent feedback was received from the participants.

Training Programme on Mini Micro and large hydro Power Plants at APGCL Guwahati, 7th & 8th August 2019

IEEMA conducted a two day training program for Assam Power Generation Corporation Ltd on Mini Micro and large hydro Power Plants on 7th & 8th August 2019 at Guwahati. The session was conducted by Mr Narendra Kumar Ex ED, BHEL. Both the days the training was attended by 20 Utility Engineers mostly from their Hydro Plant department. The participating officials were Civil & Electrical Engineers. The feedback received was Excellent & they suggested few topics on tunnelling, Scheduling of Construction etc. on which they asked detailed training in future from IEEMA.





Training on Operation/ Maintenance aspects of high voltage Gas Insulated Switchgear (GIS) – 7th & 8th August 2019, VTPS Vijaywada

The intensive 2 days training on GAS INSULATED SWITCHGEAR (GIS) was delivered on 7th & 8th August 2019 at VTPS Vijaywada by Mr. Kiran Patil and Mr. Arnab Som from Crompton Greaves Ltd. The training covered the real time issues, technical aspects, case studies, new technologies and its usage. Almost 35 members attended under the capacity of Superintendent Engineer (SE) to Assistance Divisional Engineer (ADE) from the substation background.

Training Program on Awareness of Renewable Energies at APGCL, Guwahati, 24th to 26th September 2019.



IEEMA conducted a three day training program for Assam Power Generation Corporation Ltd on APGCL(Assam Power Generation Corporation Ltd) on General Awareness of all Renewable Energies, solar, hydro, wind and biomass. The session as conducted by experts of solar wind and hydro Power organisations. The feedback received was Excellent and participants were satisfied with the learnings shared in the session.

Training on SAS & C & R Panels, APTRANSCO Vijaywada, 25th & 26th September 2019



Two day training programme was held on 25th & 26th Sept 2019 for APTRANSCO on SAS & C&R Panels at Training Institute, VTPS, Vijayawada, The 2 days intensive training was facilitated by Mr. Pradeep Sali and his colleague from Crompton Greaves, Nashik. It was close to 30 people who attended the training.

The excellent feedback was received from the participants.

Training Program on Transmission lines and its bottlenecks at AEGCL,27th & 28th September 2019

IEEMA conducted a two day training program for Assam Electricity Grid Corporation Ltd on Transmission lines and its bottlenecks on 27th & 28th September 2019 at Guwahati. The session was conducted by Mr. D S Yadav Ex ED, PGCIL The training was attended by about 30 Utility Engineers. The feedback received was excellent and participants were satisfied with the learnings shared by the faculty.

Training Programme on EHV Underground Cables - Design, Selection, Laying, Monitoring & Fault Detection" at MSETCL, 13th to 16th November 2019

IEEMA organised a four day training for MSETCL officials on "EHV Underground Cables - Design, Selection, Laying, Monitoring & Fault Detection" from 13th to 16th Nov, 2019 at their Regional Training Centre, Aurangabad.

The training was organised with an aim to provide MSETCL engineers with a practical and technical knowhow while execution of jobs related to underground cables in their day to day work. There is lot of demands in their projects work due to lot of infrastructure development in Mumbai and various parts of Maharashtra. Due to this there is huge requirement for undergrounding cables in their transmission network.

The session was conducted by Mr. S. Ramaprasath, Former Jt. Director, CPRI and officials from Ravin Group Mr. Pradyuman Karnik, VP- Projects, Mr. Yogesh Vaidya, GM R& D, Mr. Pradeep Ramrakhiani, VP, Technical and Marketing. The topics covered were Design, Selection, laying, monitoring and fault detection.

There were around 30 participants who attended the training from Executive engineers, Dy. Executive Engineers and Additional Engineers levels from 7 zone and 1 load despatch centre of MSETCL. The feedback was very encouraging. The workshop was conducted in a very practical way by using the cable samples and jointing kits.



Training Programme on EHV Underground Cables - Design, Selection, Laying, Monitoring & Fault Detection" at Polycab Vadodara Factory – 27th to 30th November 2019

IEEMA organised a four day training for MSETCL officials on "EHV Underground Cables - Design, Selection, Laying, Monitoring & Fault Detection" from 27th to 30th November 2019 at Polycab Halol Factory.

The training was organised with an aim to provide MSETCL engineers with a practical and technical knowhow while execution of jobs related to underground cables in their day to day work. Both technical and practical knowledge was shared by factory experiences. The feedback was very encouraging. The training was conducted in a very practical way and MSETCL desired to have many more trainings in similar manner ahead for its other employees.

Training programme on "Maintenance of Substation: Testing, Predictive Maintenance, Earthing, Safety, Rules, Regulations, IS at MSETCL RTC, Aurangabad, 16th to 19th December 2019

Training programme on **"Maintenance of Substation: Testing, Predictive Maintenance, Earthing, Safety, Rules, Regulations, IS"** was held on 16th December to 19th December 2019 at RTC, Aurangabad for the MSETCL engineers.



The training was delivered by Dr. Aradhana Ray, Independent consultant and Mr. P. K. Pattanaik, from OPTCL in a very interactive way through case studies, videos and photographs. There were 24 participants who attended this training from 7 zone of Maharashtra.

The closing remarks and feedback were given by Dr. Nitin Zope, Additional Engineer Regional Training Centre, MSETCL – Aurangabad. The certificate of participation was distributed to all the participants after successfully completing the four days' sessions. Training programme on "Maintenance of Substation: Testing, Predictive Maintenance, Earthing, Safety, Rules, Regulations, IS" at MSETCL RTC, Padhge, Bhiwandi, 27th to 30th January 2020 & 3rd to 6th February 2020



There were two batches of 26 and 24 participants from 7 zones of Maharashtra State Electricity Transmission Company Ltd. (MSETCL), attended this training. The training of first batch was held from 27th January, 2020 to 30th January, 2020 and 2nd batch from 3rd Feb, 2020 to 6th Feb, 2020 at RTC, Padhge, Bhiwandi.

The sessions were conducted by Dr. Aradhana Ray, Independent Consultant and Mr. P. K. Pattanaik, OPTCL in a very interactive way through case studies, videos and photographs. Few topics covered were: Maintenance of EHV Substation Equipment: Condition Monitoring, -Diagnostic Tests & Predictive Maintenance, Preventive maintenance, Breakdown Maintenance of Major Equipment, Troubleshooting, and Pre Monsoon Checks. Maintenance of Substation: Safety Pause and Safety contact, CEA Regulations & Grid Code, CERC/MERC Regulations, IS Codes, Types of Substation, Operating principles of Substation Equipment, Busbar arrangements. Testing & Protection: Circuit Breakers, Transformers, Lightening Arrestors & CT/ PT, Reactors & Capacitor Banks. Safety practices: Use of Personal Protective Equipment, Working at Height, Electrical Safety, Working in Confined Space, Safety Observation Procedure. Earthing: Maintenance of Earthing System & Shield Wire, Measurement of Earth Resistance.

The closing remarks and feedback was given by Mr. S. Kalantri, SE, HVDC RS O&M Circle, Padghe. The certificate of participation was distributed to all the participants after successfully completing the four-day course.



Training Programme on "EHV Underground Cables - Design, Selection, Laying, Monitoring & Fault Detection" at MSETCL, Regional Training Centre, Jejuri near Pune, 10th Feb, 2020 to 13th Feb, 2020



The training was conducted by Mr. S. Ramaprasath, Former Jt. Director, CPRI and officials from Ravin Group Mr. Pradyuman Karnik, VP- Projects, Mr. Pradeep Ramrakhiani, VP, Technical and Marketing, and Mr. Prashant Inamdar, Manager Technical, 3M India Ltd., The topics covered in the training were on the Design, Selection, laying, jointing and monitoring and fault detection.

There were 32 participants who attended the training from Executive engineers, Dy. Executive Engineers and Additional Engineers levels from 7 zone and 1 load despatch centre of MSETCL. The feedback was very encouraging. The workshop was conducted in a very practical way by using the cable samples and jointing kits.

Industry Trainings

Seminar on "Currency Hedging"–Manage Forex Risk in volatile currency market"



On 12th April, 2019, IEEMA in association with EDELWEISS organized seminar on "Currency Hedging"–Manage Forex Risk in volatile currency market", held at Edelweiss House, Kalina, Mumbai. The workshop was conducted by Mr. Sejal Gupta, Head–Forex & Rates and Ms. Madhavi Arora, Economist at Edelweiss. The objective of this Workshop was to provide Knowledge on managing forex risk while importing and/or exporting in ever volatile currency market by using hedging tools. There were 22 delegates attended the programme.

One day workshop on "Digitalization & Industry 4.0



On 21st May, 2019, IEEMA in association with Siemens Ltd. organized One day workshop on "Digitalization & Industry 4.0", held at SIEMENS - Kalwa Works, Thane. Mr. Siddharth Desai (Hindustan Motors), Chairman, Western Region Committee - IEEMA extended welcome to the group of twenty delegates from Industry and he also explained the objective of Workshop in his opening remark. The workshop was conducted by team of experts from Siemens's Kalwa Works and delivered their presentations on way to Digital Enterprise with Mindspere, Mechotronics, IOT and Siemens Training & Centre of Excellence in the first half of the workshop. In the second half a factory visit was conducted and experts guided delegates through the Digital Manufacturing Line & Building Technologies Centre. There were 21 participants attended this workshop.

Training on "Excellence in Supply Chain Management

On 23rd July, 2019, One day training on "Excellence in Supply Chain Management" held at IEEMA Mumbai Conference Room. The training was conducted by Mr. Dinesh Divekar, Trainer and Consultant from Bangalore in a very interactive manner. The topics covered in the training are mainly recent developments, key principles of supply chain management, the Bullwhip Effect and it impacts on the Supply Chain. This was explained by him with case study on Bullwhip Effect. He also explain the participants about Supply Chain Operations Reference (SCOR), Inventory Turnover Ratio (ITR). This was

AatmaNirbhar BHARAT

explained by him with numerical examples on Inventory Turns and Days of Supply, Breakup of the various costs and Transportation metrics. The programme was attended by 22 participants from various organisations from IEEMA membership

A two days 3rd Master class on **"Advanced Energy** Storage Technology, Applications, Policy & Manufacturing Process" held on 26th and 27th Sept, 2019 at Hotel Orchid Mumbai.



The Indian government recently launched the National Mission for Transformative Mobility and Battery Storage (NMTM&BS) with the Phased Manufacturing Program (PMP) for li-ion battery manufacturing by NITI Aayog.

IEEMA and IESA are working closely to help create awareness about the growing opportunity so that Indian manufacturers can evaluate their existing capabilities to be part of the global supply chain for advanced energy storage and EV systems.

There were 30 participants from organisation like Agasthya Solar Power, CLP India Pvt. Ltd., Dharia Switchgear, Eaton Technologies, Hitachi Hi-Rel, Kkalpana Industries, Renault Nissan Technology, Sainik Industries, Soyo Systems, TMEIC, Vikram Solar, Senvion, Intelux Electronics attended this programme. The interactive session was conducted by speakers from India and Abroad. The feedback was very overwhelming and participants felt that IEEMA – IESA should conduct such session along with the factory visit.

One day Workshop on "Transformer Design, Applications and Life Extension" 4th September 2019, Vadodara

On 04th September 2019, IEEMA in association with IEEE - PES & ERDA organized one day workshop on "Transformer Design, Applications and life extension" at Vadodara. With Gujarat Energy Transmission Corporation Limited (GETCO) as the knowledge partner. The workshop was inaugurated by Mr K M Bhuva, Director Technical, GUVNL and Mr B B Chauhan, MD GETCO. Mr. Ronnie Minhaz, presented at the session on Design Aspects of Transformer and IEEE Specification. The day long programme also featured presentation from Mr. P. Ramachandran , Senior Advisor ABB India Limited on Life Extension of Transformer; Dr. Satish Chetwani, ERDA on Health Index of Transformer and Mr. Prasenjit Paul, Schneider Electric on Inverter Duty Transformers for Solar Application.



The workshop was attended by 170 participants from Industries, GENCOs, TRANSCOs, DISCOMs, OEMs, Solar Developers, Testing and R&D organizations, Consultants, Academic Institutions, etc.

Building Personal & Team Growth through Transactional Analysis, 27th September 2019 (one day) at Mumbai



On 27th September 2019, a One Day workshop on "Building Personal & Team Growth through Transactional Analysis" held at IEEMA Conference Room, Worli, Mumbai. The workshop was conducted by Mr. Indranil Mitra and Mr. Rameshwar Prakash. The objective of this Workshop was to provide knowledge on how to effectively use the tool of Transactional Analysis in building personal and team growth. The workshop was attended by 20 delegates.

On 22nd November, 2019, A One Day Training on "Developing Team Performance through Feedback & Coaching", was held at IEEMA Conference Room, New





Delhi. The training was conducted by Mr. Anand K. Chaturvedi, Founder of People 1st. The objective of this training was to provide knowledge on how to effectively use the tools of Feedback & Coaching to develop team performance. IEEMA operations team along with

participants from member companies were appreciative of learning the tools in theory as well as practical through group activities which were conducted.

On 28th Feb, 2020, A One Day Training on **"Developing Team Performance through Feedback & Coaching"**, held at IEEMA Conference Room, Worli, Mumbai. The workshop was conducted by faculty Mr. Anand K. Chaturvedi, Founder of People 1st. The objective of this Training was to provide knowledge on how to effectively use the tools of Feedback & Coaching to develop team performance. The participants' were appreciative of learning the tools in theory as well as in practice through group activities that were conducted during training program.



79

AatmaNirbhar BHARA

ಎಲೆಕ್ರಾಮ 2020-ಹೊಸ ಎಲೆಕ್ಟಿಸಿಟಿ ಯುಗದ ವಿಕಸನ

donketti tuttaata 8 tutta moorginimi 14 fi adaga-1000 moo aQketti garaatata tuttaa aQketti garaatata tuttaa dissa katata yoo daatata mooja mooj daayi waxaata saraatamaa oogo tututaa saraatamaa oogo tututaa Excellencement wagte internet mitterne tammentagie ang orden internet internetagi. Addief mitte (Dingo)a missione) nei daga ung temat indepa efer autom mitternet adapta ungan makkeng Laon ingleme indefatus etgang undet sangte souther age

डलेकामा २०२० नए बिजली युग का विकास

मुंबई। भारतीय इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स विनिमांत संघ (आईईएमए) के प्रमुख कार्यक्रम इलेक्राम के 14वें संस्करण-इलेक्रामा 2020 की अधिकरिक घेलागा कर दी गई है। हाल के वर्शों में सफ़्ट ने तेज रफ्तार से आधिक वृद्धि दर्ज की है और वह विजली का उत्पादन करने के लिए जीवाण्म ईधनों के इस्तेमाल के स्थान पर नवीकरणीय स्रोत इस्तेमाल करने की दिपा में तेजी से बढ़ रहा है। पिछले कछ वर्शों से इलेकामा, इलेक्टिक वाहनों, इंटरनेट ऑफथिमा (अईओटी), स्टोरेज सॉल्यूपन्स और नवीकरणीय ऊर्जा पर प्रबल रूप से ध्यान केंद्रित करते हुए ज्ञान साझा करने के मंच के रूप में उभरकर सामने आवा है। इलेकामा 2020 के अध्यक्ष अनिल साथू ने कहा, 'इलेकाम बिजली के क्षेत्र में भारतीय उद्योगों, एसएमई और स्टार्टअप्स के लिए अंतर्राष्ट्रीय सम्पर्क है तथा यह उच्च गुजवता वाले, नवोन्मेशी और प्रतिस्पर्धी उत्पादी के विनिर्मातों के तौर पर भारत के सामर्थ्य का प्रदर्शन है। इसके तहत, 140 देशों के 650 अंतर्राष्ट्रीय खरीददरों की मेजबानी की जाएगी, जो न केवल नवीनतम प्रीद्योगिकीय उन्तरि, बलिक विक्रय में ५वीं विक्रालतम अर्थव्यवस्था के तौर पर भारत की प्रगति के भी साक्षी बनेंगे।

इलेक्रामा २०२० का आयोजन 18 से 22 जनवरी तक नोएडा में

हुए ज्ञान साझा करने के मांग के रूप

एमएमा और स्टाईअप्स के लिए

अंतर्गाचीय सम्पर्ध है तथा यह तस्त

गुणवत्ता थाले, नवोन्मेशी और

प्रतिस्पर्धी उत्पादी के चिनिम्रील के

तौर पर भारत के सामर्थ्य कर प्रदर्शन

है। इलेकामा 2020 के तहत, 140

देशों के 650 अंतरराष्ट्रीय खरीददारों की मेजवानी की जाएगी।

कार्यक्रम का आयोजन 18 से 22

जनवरी, 2020 तक इंडिय एकस्पे

महर, पेटर जेव्ह्या में किया जाएगा।

चंह प्रदर्शनी 110,000 सर्गमीटर के

दापरे में फैले प्रदर्शनी क्षेत्र के लिलेष

मंडपों, सम्मेलनों और संबद्धनाओं

डपरकर समने आया है। इलेकामा 2020 में अल्पम अगिल मामू में कहा, इलेकामा बिजली के क्षेत्र में भंगतीय हडोगों,

एतॅमी

नई हिल्ली। पालीप इलेफ्टिकल एवं इलेक्ट्रॉनेक्स विनिमांता संघ (आर्डिसमर) के प्रमुख परपंत्रम इलेफामा के 14वें संस्करण-इलेक्राम्स 2020 की अधिकारिक भोषणा कर दी गई है। छल के वर्णों में सन्द्र ने तेन रफ्तार से आर्थिक बॉट दर्ज को है और यह बिजली का जत्पादन करने के लिए मीमामम ईश्वनी के इस्तेमाल के स्थान पर नवीकरणीय शोत इस्तेमाल करने की दिशा में लेनी से बढ़ सह है। ले कुछ वर्षी से इलेक्स्स, elfiers. बाहनीं, इंटरनेट ऑप चिम्स (आजिोटी), स्टोरेज सांस्पुरूस और प्रवीतरणीय कर्म पर प्रवल रूप से ध्यम केंद्रित करते

लेक्रामा का १४वां संस्करण इलेक्रामा १८ जनवरी से

डेली न्यूज, नई विल्ली। भारतीय इलेक्ट्रिकल एवं इलेक्ट्रॉनिक्स विनिर्माता संघ (आईईएमए) के प्रमुख कार्यक्रम इलेकामा के 14वें संस्करण इलेकामा 2020 की आधिकारिक योषणा कर दी गई है। पिछले कुछ वर्षों से इलेक्रामा, इलेक्टिक वाहनों, इंटरनेट ऑफ थिमा (आईओटी), स्टोरेज सॉल्यूशन्स और नवीकरणीय ऊर्जा पर प्रबल रूप से ध्यान केंद्रित करते हुए ज्ञान साल्यूसन्स आर नवाकरणाय ऊजा पर प्रबल रूप से ध्यान केंद्रित करते हुए ज्ञान साझा करने के मंथ के रूप में उभरकर सामने जाया है। इलेक्रामा 2020 के अव्यक्ष जीनल साखू ने कहा कि इलेक्रामा बिजली के क्षेत्र में भारतीय उद्योगी, एसएमई और स्टार्टजन्म के लिए अंतरराष्ट्रीय सम्पर्क है तथा यह उच्च गुणवत्ता वाले, नवोन्मेशी और प्रसिप्त्यर्थी उत्पादों के विनिर्माता के तौर पर भारत के सामगां का प्रदर्शन है। इलेकामा 2020 के तहत, 140 देशों के 650 अंतरराष्ट्रीय खरीददारों की मेजवानी की जाएगी। इस कार्यक्रम का आयोजन 18 से 22 जनवरी 2020 तक इंडिया एक्सपी मार्ट, ग्रेटर नोएडा में किया जाएगा।

इलेकामा २०२० की हुई आधिकारिक घोषणा

नई हिल्ली। भारतीय इलेकिट्रकल एवं वहाँगिका चिनियांत संघ (अईईईएमए),के रात्वप्राण्या विर्णया स्व (अवहरद्यप्र), क रमुख वर्णावाम स्वेत्रास्त के अर्थे संस्वरण-रात्यान 2029 के अधिकरीक परिवास रही गाँवे 11 डाव के वर्षों में पहुं ने ठेव रक्ता के आधिक शुद्धि दर्श की जीर वह विज्ञानी का राज्यादर कही की लिए जीववाम् रूपिनी के इसीमाल के रखाल में। तथीकरणीय स्टेंस इस्तेमाल करने की मिता में तथी से बहु रहा है। इस्टेस्टब्स 2020 पर प्रता के तथा में कुछ हो है। इस प्रथ हो है किया के आगवा करिया साथ है कहा का इस हिम्मा प्रतिशाम के लिए ओस्ट्रीय साथकों के प्रतिश्व मा उन्दर गुपावल बाले, नवीमीयी और इतिप्रथी उन्दरी के विभिन्नों के सीर पर प्रतान के प्राव्यन का प्राणन है। इनिसाम ३००० के तहत, १४० रंगों के तहत अंतर्राष्ट्रीय प्रतीवदानी को में जवानी को साएगे, को य केमल स्वीमतम प्रीकोणकोय त्यारि, चोटक विषय में आपें विकाससम असंगणपत्था के तीर पर भारत को प्रपति के की मानी वर्मने। इस विद्याल कार्यक्रम का अयोजन ७ जनकी से ३२ जनकी, २०२० तक इंडिया राज्यनी मार्ग, ग्रेस्ट नोंपक में किया जयता। यह 110,000 पानिस के दावों में फैले राजने का क निरोध संहर्धा, समीलनी सीए साल सहित कुल प्रमुख्य मामिलन की म नहीं जाएगी, जिससे दुनिया था के दुन्होंकिल्स नेपा थी पूर्णु का के दिनावली उल्पूचन उपलब्ध लेकामा के १४वें संस्करण– इलेकामा 2020 की आधिकारिक घोषणा

नई दिल्ली, खंखन केमगी। भारतीय इलेक्ट्रिकल एवं इलेक्ट्रीनका संघ के प्रमुख कार्यक्रम इलेकामा के 14वें संस्करण- इलेकामा 2020 की अधीचकारिक चोचगा कर दी गई है। झाल के क्यों में राष्ट्र ने तेज रपतार से आधिक पुद्धि दर्ज को है और यह विजली का उत्प करने के लिए जीवारम ईभनों के इस्तेमाल के स्थान पर नवीकरणीय स्टेल इस्तेमाल करने भी दिया में तेजों से बढ़ रहा है। पिछले कुछ वर्षों से इलेक्समा, इलेक्ट्रिक गाठलें, इंटरनेट ऑफ खिंग्स (आईओट)), स्टोरेज सोल्युसन्स और नवीकरणीय ऊर्जा पर प्रबल रूप से प्यान केटित करते न साझा करने के मंच के रूप में उभरकर सामने आया है। इल्लेकाण हर ज पुर जन साम करने के मंच के रूप में उपरक्त सामन आया है। (सुझामा 2020 के अख्यक्ष अनित्त साथू ने कहा, "इलेक्समा कितली के क्षेत्र में भलतीय उद्योगी, एसएमई और स्टार्टअमा के सिए अंतरांद्रीय सम्पर्क है तथा यह उच्च गुणवत्ता वाले, नयोनमा और प्रतिस्थानी उत्यादों क विनियांता के तौर पर भारत के सामवर्ध का प्रदर्शन है। इलेकामा 2020 के वहत, 140 देशों के 650 आंतरांष्ट्रीय खाउेडवरों को मेक्सानी की जाएवी, गों ने केवल, नवीनतन प्रीयोगिकीय उन्तरि, जलिक विरुव में 5वी विशालतम अर्थव्यवस्था के तौर पर भारत को प्रगति के भी साम्री बनेंने।

लेकामा के 14वें संस्करण- इलेक्रामा 2020 की आधिकारिक घोषणा

100

खोन खबर

e ibm sibijes edubid. 110.000 is

ಹಿ ದಿಶೆ ಸದ್ಯಳಾ ರಂದರಿಂದ ಬರಿಸಲಾ ಎಂದ ವಿರುಗಗಳ ವ್ಯವಧಿ ಕ್ರಾರ್ಥಕರ ಮಾಡಿದೆ. ವರಸ್ತರ 12,000 ಚಾರು ವಿರುಗಗಳನ್ನು ಪ್ರತಿತಂದ್ರ ಸ್ಥೇರ್ ಸಬೆಯಾಗಿ, ಮತ್ತುಗಳನ್ನು ಸಾಮಾರಾಜ ಮಾಡುವಿದೆ. ವಿಶೆಷ್ಟಿಕೆಯುವ ಹಾದುರಾಜ ಮಾಡುವಿದೆ. ವಿಶೆಷ್ಟಿಕೆಯುವ ಹಾದುರಾಜ ಮಾಡುವಿದೆ. ಎಂದುಗಳ ಬುಗಾ ಮಾಡಲ್ ವಿವಯ ಹೊಸ ವಿವ್ಯುಳ ಯಾದ ವಿಶವ

poursied.

ವಾರ್ ನಿವರ ಹೊಸ ವಿದ್ಯಾಳ ಮಾನದ ವಿಶವ ಎಂಬನಾಗಿದೆ ಕನೆಯ ಈ ಮಾದ ವಿವರ್ಷವನ್ನು ಕೂಟಿಸಿ ಮಾತ ಹನಿ, "ಮೇಕ್ ಬ್ ಇಂತಿಯಾ ನಾವು 3422 ರ ನೇಜೆ ದಿನನ 24 ಗಾತೆಯೂ ಸಾಗಳಾಕ ವಿದ್ಯಾಳ ಹೊಸ ಮಾಡಿದೆಗೆ, ಮಕಿನ್ ಕಿದ್ದಾಳ ಉದ್ದಗ ಕ್ಷೆಡೆತುದಿಗೆ. ಈ ಸತ್ತಿನಲ್ಲಿ ಲಾಧವಾರ ರಬಗತ್ ನಿಮರ್ ಇಂತುವರೆಗೆ, ಮೆಕಿಂಗ್ ಕಿರ್ದೇಶಗಳು ಇವುಗಳ ಇಂತುವರೆಗೆ, ಮೆಕಿಂಗ್ ಕಿರ್ದೇಶಗಳು ಇವುಗಳ ಇಂತುವರೆಗೆ, ಮೆಕಿಂಗ್ ಕಿರ್ದೇಶಗಳು ಇವುಗಳ ನಾಡುವರೆಗೆ, ಮೆಕಿಂಗ್ ಕಿರ್ದೇಶಗಳು ಇವುಗಳ ಮತ್ತು ತುಡುತ್ತಿಗಾಗಳು, ಕಾರಕ್ಕೆಗಾಗು ಇವುಗಳ ಮತ್ತೆ ತುಡುತ್ತಿಗಾಗು, ಕಾರಕ್ಕೆಗಾಗು ಇವುಗಳ ಮತ್ತು ತುಡುತ್ತಿಗೂ ತಾರೆಗೆ ಮತ್ತು ಇವರ ಹಿಂದು ತಿರುವು

जयपर। भारतीय इलेक्टिफल एवं इलेक्टॉनिक्स चिनिमाती संघ के प्रमुख कार्वक्रम इलेकामा के 14वें संस्करण- इलेकामा 2020 की आणिकारिक धोषणा कर दी गई है। हाल के वर्षों में राष्ट्र ने तेज रफ्तार से आर्थिक युद्धि दर्ज की है और वह बिजली का उत्पादन करने के लिए जीवाश्य ईंधनों के इस्तेमाल के स्थान पर य स्तेल इस्तेमाल करने की दिला में तेजी से वह ला है। पिछले कुछ वर्षों से इलेकामा, इलेक्ट्रिक वाहनी, इंटरनेट ऑफ थिंग्स (आईओटी), स्टोरेज सॉल्यजन्म और नतीकरणीय जल्म पर प्रबल रूप मे ध्यान केंद्रित करते हुए ज्ञान साझा करने के मंधके रूप में उधरकर सामने आया है। इलेकामा 2020 के अध्यक्ष अनिल साबू ने कहा, "इलेकामा बिजली के क्षेत्र में

The 14th edition of ELECRAMA-2020, the flagship event of IEEMA

New Delta. The 14th edition of ELECRAMA-2020, the flag-ship event of IEEMA, is officially announced. The country has recorded rapid economic growth in recent years and is that transitioning from tossil fuels to renewable sources to tast transitioning from tossi fuels to renewable sources to generate electricity ELECRAMA.cver the years has simminged as a platform for knowledge-sharing with a strong focus on electric vehicles, internet of Things, storage solutions and renewable energy Anil Saboo, Chairman, ELECRAMA.2020 said, TELECRAMA is a global connect for the Indian Industry. SME's and Start Ups in the electricity domain, and a show case of India's strength as manufacturer of high quality, inno-vative and competitive products. ELECRAMA 2020 will host valive and competitive products. ELECRAMA 2020 will host 650 international Buyers from 140 countines, who will wil-ness not only the latest in technological advancements but also progress of holia as the 5th largest economy in the world. The mega event will be hold from 18th January to 22nd Janu-ary 2020 at India Export Mart, Greater Noida. The exhibition spars over 110,000 sq. mts. of exhibition area, 12,000 sp. building a complete wholesome experience for the ecosystem play-ers from around the world. a complete wholesome exp ers from around the world.

डलेक्रामा के १४वें संस्करण-डलेक्रामा २०२० की घोषणा

मंबर्ड, जेएनएन।भारतीय इलेक्टिकल एवं इलेक्टॉनिक्स विनिर्माता संघ (आईईईएमए) के प्रमुख कार्यक्रम इलेक्रामा के 14वें संस्करण- इलेक्रामा 2020 की आधिकारिक घोषणा कर दी गई है। हाल के वर्षों में राष्ट्र ने तेज रफ्तार से आर्थिक वृद्धि दर्ज की है और वह बिजली का उत्पादन करने के लिए जीवाष्म इंधनों के इस्तेमाल के स्थान पर नवीकरणीय स्रोत इस्तेमाल करने की दिशा में तेजी से बढ़ रहा है। पिछले कुछ वर्षों से इलेक्रामा, इलेक्टिक वाहनों, इंटरनेट ऑफ थिंग्स (आईओटी), स्टोरेज सॉल्युशन्स और नवीकरणीय ऊर्जा पर प्रबल रूप से ध्यान केंद्रित करते हुए ज्ञान साझा करने के मंच के रूप में उभरकर सामने आया है। इलेक्रामा 2020 के अध्यक्ष अनिल साबू ने कहा, इलेक्रामा बिजली के क्षेत्र में भारतीय उद्योगों, एसएमई और स्टार्टअप्स के लिए अंतरराष्टीय संपर्क है।

भारतीय उग्रोगे, एसएमई और स्टार्टअप्स के लिए अंतरीष्ट्रीय सम्पर्क हे तथा यह उच्च गुजजता वाले. नवोन्मेषी और प्रतिस्पधी उत्पादी के विनिमाल के तौर पर भारत के सामध्यें का प्रदर्शन है। इलेकामा 2020 के तहत. 140 देशों के 650 अंतर्राष्ट्रीय खरीदवरों की मेजबानी की जाएगी, जो न केवल नवीनतम प्रौद्योगिकीय उन्नति, बल्कि विश्व में 5वीं विज्ञालतम अर्थव्यवस्था के तौर पर भारत को प्रगति के भी साक्षी बनेंगे। इस विशाल कार्यक्रम का आयोजन के जनवरी से 22 जनवरी, 2020 तक इंडिया एक्सपी मार्ट, ग्रेटर नोएडा, में किया जाएगा। यह प्रदर्शनी 110,000 वर्गमीटर के दायरे में फैले प्रदर्शनी क्षेत्र के विशेष मंडपी सम्मेलनों और संकल्पनाओं से पुंता 12,000 वर्गमीटर क्षेत्र में लगाई जाएगी, ईकोसिस्टम प्लेयसं को पूर्ण रूप से हितकारी अनुभव उपलब्ध होगा।

डलेकामा २०२० की आधिकारिक घोषणा

एजेंसी/नवज्योति, नई दिल्ली

भारतीय इलेक्टिकल एवं इलेक्टॉनिक्स विनिर्माता संघ (आईईईएमए) के प्रमुख कार्यक्रम इलेकामा के 14वें संस्करण- इलेकामा 2020 की आधिकारिक घोषणा कर दी गई है। इलेक्रामा 2020 के अर्ध्वश्व अनिल साबू ने कहा कि इलेक्रामा बिजली के क्षेत्र में भारतीय उद्योगों, एसएमई और स्टार्टअप्स के लिए अंतरराष्ट्रीय सम्पर्क है तथा यह उच्च गुणवत्ता वाले, नवोन्मेशी और प्रतिस्पर्धी उत्पादों के विनिर्माता के तौर पर भारत के सामर्थ्य का प्रदर्शन है। इलेक्रामा 2020 के ततत, 140 देशों के 650 अंतरराष्ट्रीय खरीदारों की मेजवानी की जाएगी, जो न केवल नवीनतम प्रौद्योगिकीय उन्नति, बल्कि विश्व में डवीं विशालतम अर्घव्यवस्था के तौर पर भारत की प्रगति के भी साझी बनेंगे।

डलेकामा का।4वां संस्करण १८ से २२ जनवरी तक नोएडा में

18 दी 22 जनवादी तक जीएडा में व्यक्तिमा (में प्राप्त कार्यम प्राप्त प्राप्त कार्यमा) व्यक्तिमा (में प्राप्त कार्यम, प्राप्त कार्यमा) में प्राप्त कार्यमा (में प्राप्त कार्यमा) में प्राप्त कार्यमा के प्राप्त कार्यमा कार्यमा (में प्राप्त कार्यमा कार्यमा) में प्राप्त के प्राप्त कार्यमा कार्यमा (में प्राप्त कार्यमा) में प्राप्त कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा में प्राप्त कार्यमा कार्यमा के प्राप्त कार्यमा कार्यमा कार्यमा कार्यमा में प्राप्त कार्यमा कार्यमा के प्राप्त कार्यमा कार्यमा कार्यमा कार्यमा नायाया और स्वार्य कार्यमा कार्यमा के स्वार्य कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा कार्यमा

, से मुन्ह 12,000 वर्गमीटर क्षेत्र में लगाई जाएगी, जिससे दुनिया भर के ईकोसिसटम प्लेयमं को पूर्ण रूप से हितकारी अनुभव उपलब्ध सेगा। इस साल की प्रदर्शनी का विषय विजली के जर पुग का विकास

जागाः आईइंग्रम्म के अध्यक्ष गरित अग्रमाल ने करा, यह उग्रोग मेक इन इंडिया और वर्ष 2022 तक सबवे लिए 24×7 बिजली जेसी सरकार को पहलों से सम्बद्ध है। यह नद्योग इलेकामा 2020 के दौरान आर्टिफिशियल इटेलिवेन्स, मशौन ल्वनिंग, व्यर्वेक चेन से संबंधित समाधानी और सिजानी के पंती. उपकरणी, मशीनरी के विनिर्माण में नवाचार और ऊर्ज़ दचता कार्यक्रमों

के मिल्ला को प्रदर्शित करेगा।





ಸಾಕ್ಷ್ಮಿಯಾರುವಂದಕ್ಕೆ ಬಲ್ಲ ವಿದ್ವರ 3 ರೇ ಕಾರ್ಮನ್ನ ವರ್ಧಿಕಾರದ ಬೇಡಲಾಗಿರುವ ಭಾರತಗ ಬೇಡುಗಳನ್ನೂ ನೋಡರವಿದ್ದರೆ ಎಂದು ತಿಳುವರು. ಗೆಟ್ಟಲ್ ನೋಯವು ಪ್ರಾಂತನವಾ ಎಕ್ಕೊರ್ಗ್ ಮಾರ್ಟ್ನಲ್ಲಿ 2428 ರ ಎಕುವರ 38 ರಂದ 22 ರವಣಿಗೆ vagew some new product water water and the second state of the second se

the leading electrical & electronics monthly



Digital Version at your FINGERTIPS for monthly subscription

visit: www.ieema.org

















Garaw Sara

A 5 4 4 0 8 2 5



Indian Electrical & Electronics Manufacturers' Association



INDIAN ELECTRICAL & ELECTRONICS MANUFACTURERS' ASSOCIATION (IEEMA), is the apex industry association of manufacturers of electrical, industrial electronics and allied equipment in India. IEEMA represents the complete value chain in power generation, transmission and distribution equipment. IEEMA members have a combined annual turnover in excess of US\$ 42 billion and have contributed to more than 95% of the power equipment installed in India.

CORPORATE OFFICE

Rishyamook Building, First Floor 85 A, Panchkuian Road New Delhi - 110001, INDIA Tel.: +91 11 2336 3013 / 14 Fax: +91 11 2336 3015 Email: delhi@ieema.org

REGISTERED OFFICE

501, Kakad Chambers, 132 Dr. Annie Besant. Road, Worli Mumbai - 400018, INDIA Tel.: +91 22 2493 0532 / 6528 / 6529 Fax: +91 22 2493 2705 Email: mumbai@ieema.org

REGIONAL OFFICE

503A, Oswal Chambers, 2 Church Lane Kolkata - 700001, INDIA Tel.: +91 33 2213 1327 Fax: +91 33 2213 1326 Email: kolkata@ieema.org

REGIONAL OFFICE

204, Swiss Complex, 33 Race Course Road Bangalore - 560001, INDIA Tel.: +91 80 2220 1316 / 1318 Fax: +91 80 2220 1317 Email: bangalore@ieema.org

STATE HEADS

Anuj Chaturvedi (Uttar Pradesh, Uttarakhand, MP & Chattisgarh) Email: anuj.chaturvedi@ieema.org Cell: +919839603195

Bharti Bisht (Haryana, Himachal Pradesh & Punjab) Email: bharti.bisht@ieema.org Cell: +919888208880

Devesh Vyas (Rajasthan) Email: devesh.vyas@ieema.org Cell: +918955093854

Irfan Parray (Jammu & Kashmir) Email: irfan.parray@ieema.org Cell: +919858455509

Jesse Inaparthi (Andhra Pradesh & Telangana) Email: jesse.inaparthi@ieema.org Cell: +919949235153

K Seetharaman (Karnataka, Tamil Nadu, Kerala) Email: k.seetharaman@ieema.org Cell: +919980004982

Nilankha Chaliha (North Eastern States) Email: nilankha.chaliha@ieema.org Cell: +919706389965

Rajesh Parab (Maharashtra) Email: rajesh.parab@ieema.org Cell: +91 9702269598

Smruti Ranjan Samantaray (Odisha) Email: smrutiranjan.samantaray@ieema.org Cell: +919178589920

Subhajit Dasgupta (Bihar, Jharkhand and West Bengal) Email: subhajit.dasgupta@ieema.org Cell: +919830211734

Tarjani Patel (Goa Gujarat, Daman & Diu) Email: tarjani.patel@ieema.org Cell: +919833104602