



Go Global



71st Annual Report 2017-2018



IEEMA International Delegation 2017-18



IEEMA Delegation at Hannover Messe 2017
24th-28th April, 2017



IEEMA Delegation at Africa Utility Week 2017
16th - 18th May 2017



IEEMA Delegation at Nepal
25th January 2018

PRESIDENT'S MESSAGE



Mr. Shreegopal Kabra

Managing Director
RR Kabel Ltd

The Power sector in India has seen a transformational change with progressive policy-level changes and effective implementation of directives. These changes promise enormous opportunities for various stakeholders and market players. Energy is one of the key enablers for the country's economic development. With the certainty in policy-level interventions, the economy is bound to propagate the demand for energy.

The Country is moving towards new India and *Roshan India* with numerous initiatives in order to achieve the **Power for All** mission. The aim is to push the sector onto a trajectory of sound commercial growth and to enable the States and the Centre to move in harmony and coordination. Joining hands with the Government of India to electrify the North Eastern States of the Country, IEEMA has created a North East cell to monitor the material supplies to various North East discoms. This cell will help REC to fast track electrification work in that area in order to make Hon'ble Prime Minister's dream of '24X7 electricity for all' come true.

The last 11 months have been significant with several new developments defining the power sector of the country. Our continued interactions with the policy makers in New Delhi and various states have improved in frequency and substance. We have carried forward the efforts made by previous teams. "Adding value to our membership" has been the main driver. The regional/state chapters and state level utility interactions have been very rewarding for all concerned.

IEEMA, as an apex industry association of manufacturers of electrical, industrial electronics and allied equipment in India, is invited by various ministries to provide its inputs in policy formulation. Through the divisions and secretariat these inputs are being provided. Greater participation across the membership will help the industry contribute towards building a sustainable power infrastructure. There is improvement being noticed in the market activities by some of our divisions. We need to monitor and support the overall revival.

Another major focus area of IEEMA is Electrical Fire Safety across the entire spectrum of Electrical products being used in the Residential, Commercial & Industrial segments.

The domestic residential segment assumes significance since access to power through the **SAUBHAGYA** initiative will mean increased exposure of electrical products to first time users. The role of Government through its regulatory bodies should ensure that Safety norms are adhered in all respects. Responsible power usage should become the guideline ensuring less or no electrical fire related accidents.



Therefore there is a need to increase awareness about Electrical Fire Safety. We at IEEMA do not want to leave any stone unturned to decrease the number of fire accidents happenings across the country. Thus throughout the year we have been engaging with our members through dialogues. Our first workshop on Electrical fire safety conducted in Mumbai was a huge hit among the stakeholders and more such workshop are planned for the betterment of the entire society.

This year we made representation to the government on various issues like to decrease the customs duty on imports of primary aluminium metal, pending export obligation against advance authorisation / DFIA, non-adherence to CEA Guidelines for domestic competitive bidding & Make in India to provide preference to domestic manufacturers, cyber security threat to Indian electrical grid, anti-dumping duty on imports of dioctyl phthalate originating in or exported from Korea PR and Chinese Taipei, tariff lines proposed by India to Australia on goods belonging to the power sector under India-Australia CECA and also for lowering the GST rate on wires & cables, LT switchgears, switch boards, panels and insulator fittings from 28% to 18% and keeping a uniform rate of 18% GST on all electrical products.

Our flagship event ELECRAMA 2018 witnessed the presence of who's who of the entire electrical fraternity across the world. The event showcased the power of electrical equipment industry. The 13th edition of ELECRAMA recorded more than 298,000 footfalls and over 1,200 exhibitors showcased their products and services at the biggest platform of electrical and electronics manufacturers.

The other Ministries, where IEEMA has strengthened its engagement significantly include Heavy Industries, MSME, Commerce, DIPP, DIET and Ministry of Finance. This has been made possible due to persistent effort of IEEMA leadership, EC Members and product divisions.

The government is working on the representations made by us and we hope that the electrical industry will have some good news in the near future. Moreover, we had high level engagements with our Global counterparts in the last two months. Various delegations from IEEMA visited ASIAN UTILITY WEEK, Bangladesh Power utility week and ASEAN Power Grid Summit. More such engagements are lined up and I am sure that these visits will be very exciting and challenging for Indian businesses, with India emerging as a new strong power as there is a paradigm shift in the global economy.

IEEMA through its product divisions is striving hard towards working for the benefit of our members as well as for entire electrical industry. We have been making representations to the power ministry time and again on various issues concerning the industry.

Lastly, I would like to say that we need to leverage these interactions to grow the power sector and in turn the businesses of our members. I am cautiously optimistic about the year ahead. Continued dialogue with the policy makers and investment in electrical infrastructure should help us grow the available market. I look forward to your continued support and feedback.

I would finally like to extend my heartfelt gratitude to all IEEMA members, Council members, Office bearers and last but not the least – our Secretariat who work hand in hand for making the association relevant and value adding for its *members*.

Shreegopal Kabra



Executive Council



PRESIDENT

Mr. Shreegopal Kabra
Managing Director
RR Kabel Ltd



VICE-PRESIDENT

Mr. Harish Agarwal
CEO
Supreme & Co Pvt Ltd



VICE-PRESIDENT

Mr. R.K. Chugh
Executive Vice President, Digital Grid (South Asia)
Energy Management
Location Head – Gurgaon
Siemens Ltd



PRESIDENT (PREVIOUS YEAR)

Mr. Sanjeev Sardana
Managing Director
Yamuna Power & Infrastructure Limited

Elected Members



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



Mr. Manish Agarwal
CEO – Solutions
Sterlite Power Transmission Ltd.



Mr. Vinamra Agarwal
Director
Technical Associates Limited



Mr. Babu J Amritkar
President – Business Head Transformers
Emco Limited



Mr. Sharan Bansal
Director
Skipper Limited



Mr. Prakash Chandraker
Vice President
Schneider Electric India Pvt. Ltd.



Mr. Rajeev Dalela
President (T&D INDIA & SAARC)
Kalpataru Power Transmission Limited



Mr. Aaditya R. Dhoot
Managing Director
IMP Powers Ltd.



Mr. Pawan Kumar Jain
Managing Director
Kotsons Pvt Ltd

Elected Members



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



Mr. Vikas Khosla



Mr. Naveen Kumar
Head – Corporate Centre
Electrical & Automation
Larsen & Toubro Limited



Mrs. Indra Prem Menon
President & Managing Director
Lakshmanan Isola Pvt Limited



Mr. Vipul Ray
Managing Director
Elmex Controls Pvt Ltd



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



Mr. Rajeev Kumar Shah
Director – Commercial (International Business)
EMC Limited



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

Counsellors



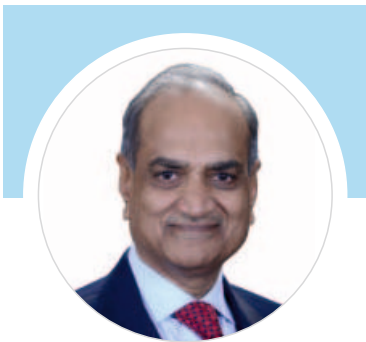
Mr. Babu Babel
Non-Executive Director
Secure Meters Ltd



Mr. Vishnu Agarwal
Managing Director
Technical Associates Ltd.



Mr. J. G. Kulkarni
Past President



Mr. R. D. Chandak
Past President



Mr. Raj H. Eswaran
Managing Director
Easun Reyrolle Limited

Co-opted Members



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



Mr. Siddharth K Desai
Managing Partner
Hindustan Motor Mfg Co



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



Mr. Kunal Sunil Kadakia
Director
Precision Plastic Industries Pvt Ltd



Mr. Vikas Jalan
Vice Chairman & Managing Director
Deccan Enterprises Limited



Mr. Vimal Kejriwal
Managing Director & CEO
KEC International Ltd



Mr. Vikalp Mundra
Jt. Managing Director
Ujaas Energy Ltd

Standing Invitees



Mr. Atul Arya
Head- Energy Systems
Panasonic India Pvt Ltd



Dr. Rishi Mohan Bhatnagar
President
Aeris Communications India Pvt Ltd



Mr. Satyajit Chattopadhyay
Sr. Advisor
WEG Industries (India) Pvt Ltd



Mr. Mithun K Chittilappilly
Managing Director
V-Guard Industries Ltd



Mr. Ajit Singh Chouhan
Managing Director & CEO
Weir India Private Limited



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



Mr. Amitabh Mathur
Director (Industrial Systems & Products)
Bharat Heavy Electricals Limited



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



Mr. K. Suryanarayana Rao
Director – Industry & Engineering Sector
Corporate Consulting Group

Standing Invitees



Mr. A. S. Subramaniyan

General Manager
Head Strategy, Energy Management Division,
Siemens Ltd.



Mr. Rahul Walawalkar

Executive Director
Indian Energy Storage Alliance



Mr. Sunil Wadhwa

Managing Director
GE T&D India Ltd &
Regional Leader - GE Energy Connections
(India & South Asia)



Mr. Mustafa Wajid

Managing Director & CEO
MHM Holdings Pvt Ltd

Divisional Chairmen



CABLE DIVISION
Mr. Rakesh Amol

President – Infrastructure & Cables Business
KEC International Limited



CAPACITOR DIVISION
Mr. Deepak Patni

General Manager
Schneider Electric



CONDUCTOR DIVISION
Mr. Kalpesh D Shah

Director
JSK Industries Private Limited



DISTRIBUTION TRANSFORMERS DIVISION
Mr. Pawan Kumar Jain

Managing Director
Kotsons Pvt Ltd



ELECTRICAL INSULATING MATERIAL DIVISION
Mr. Mihir Merchant

Dy. CEO – Strategic Businesses
Permali Wallace Pvt Ltd



ELEVATORS AND ESCALATORS DIVISION
Mr. Sebi Joseph

Managing Director
Otis Elevator Company (India) Limited



INTERNATIONAL BUSINESS DIVISION
Mr. Randeep Narang

President T&D (International)
KEC International Limited



INSTRUMENT TRANSFORMER DIVISION
Mr. Vishal G Borse

General Manager - Marketing
Pragati Electricals Ltd



INSULATOR DIVISION
Mr. Vikas Jalan

Vice Chairman & Managing Director
Deccan Enterprises Limited

Divisional Chairmen



METER DIVISION

Mr. Ashish Tandon

Vice President – Sales & Marketing
Landis + Gyr Ltd



POWER GENERATION SYSTEMS DIVISION

Mr. Sunil Parwani

General Manager (Marketing)
Bharat Heavy Electricals Ltd



POWER TRANSFORMERS DIVISION

Mr. Manjit Singh Sethi

Vice President & Head Transformers
ABB India Ltd



ROTATING MACHINE DIVISION

Dr. Praveen Vijayraghavan

Director
Integrated Electric Co. (P) Ltd



LV SWITCHGEAR DIVISION

Mr. Rajkumar Panicker

General Manager – Marketing (Power Projects)
Novateur Electrical & Digital Systems Pvt Ltd (Legrand)



MV & HV SWITCHGEAR DIVISION

Mr. Chintamani Vaze

Dy. General Manager – Marketing (M.V. Switchgear)
CG Power and Industrial Solutions Ltd



RE & STORAGE DIVISION

Mr. Gyanesh Chaudhary

Managing Director & CEO
Vikram Solar Limited



SMART GRID DIVISION

Mr. Sunil Kumar Singhvi

Chief Executive (Energy SBU)
Secure Meters Limited



SME DIVISION

Mr. Ashutosh Jatia

Sr. President
CJI Porcelain Pvt Ltd

Divisional Chairmen



SURGE ARRESTER DIVISION
Mr. K. Padmakumar
Regional Manager
Lamco Industries P Ltd



T & D PROJECT DIVISION
Mr. R. K Shah
Director – Commercial (International Business)
EMC Limited



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

Committees & Regions



PUBLIC POLICY CELL
Mr. Vikas Khosla



ECONOMIC & TAXATION COMMITTEE
Mr. Adarsh Kumar Jain
Sr. General Manager (Finance)
KEI Industries Limited



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



NORHERN REGION COMMITTEE
Mr. Pawan Kumar Jain
Managing Director
Kotsons Pvt Ltd



SOUTHERN REGION COMMITTEE
Mr. Vikas Jalan
Vice Chairman & Managing Director
Deccan Enterprises Limited



WESTERN REGION COMMITTEE
Mr. Siddharth K Desai
Managing Partner
Hindustan Motor Mfg Co.

SUNIL MISRA
Director General

MUMBAI

- ◆ **Ninad Ranade**
Director – PVC & Statistics
- ◆ **Madhura Bhivandkar**
Sr. Executive Officer – Membership /
Management Representative – ISO
- ◆ **Shalini Singh**
Sub – Editor
- ◆ **Suhas Nawathe**
Dy. Director – Membership
- ◆ **Pragati Sohoni**
Sr. Executive Officer – Product Divisions

NEW DELHI

- ◆ **J. Pande**
Sr. Director – Product Divisions
- ◆ **Gopal Krishna Mallik**
Head – HR
- ◆ **Rachna Pawa**
Head – Corporate Communications & PR
- ◆ **Sudeep Sarkar**
Director – Public Policy, Economic & Taxation
- ◆ **Reema Shrivastava**
Dy. Director – International Business Division & SME
- ◆ **Jitender Kumar**
Executive Officer – Finance & Accounts
- ◆ **Murli Krishna**
Manager – Trade Fair Mktg & Sales
- ◆ **Vivek Arora**
Executive Officer – Product Divisions
- ◆ **Ajay Mahajan**
Head – Trade Fair
- ◆ **Niharika Jaiswal**
Head – Finance & Accounts
- ◆ **Anita Gupta**
Director – Product Divisions
- ◆ **Jaideep Das**
Dy. Director – IT
- ◆ **Naveen Upreti**
Sr. Executive Officer – Product Divisions
- ◆ **Mohd. Akeel Khan**
Executive Officer – Product Divisions
- ◆ **Uttam Kumar**
Executive Officer – Product Divisions

BANGALORE

- ◆ **K. Seetharaman**
Sr. Executive Officer – Regional Office, Bangalore

KOLKATA

- ◆ **Subhajit Dasgupta**
Sr. Executive Officer – Regional Office, Kolkata

STATE HEADS

- ◆ **Anuj Kumar Chaturvedi**
Uttar Pradesh & Uttarakhand
- ◆ **Devesh Vyas**
Rajasthan
- ◆ **K. Seetharaman**
Karnataka, Tamil Nadu, Kerala
- ◆ **Nilankha Chaliha**
North Eastern States
- ◆ **Subhajit Dasgupta**
West Bengal, Bihar, Jharkhand
- ◆ **Tarjani Patel**
Goa, Gujarat, Dadra & Nagar Haveli
- ◆ **Bharti Bisht**
Haryana, Himachal Pradesh & Punjab
- ◆ **Jesse A Inaparthi**
Andhra Pradesh & Telangana
- ◆ **Mohammad Irfan Parray**
Jammu & Kashmir
- ◆ **Rajesh Parab**
Maharashtra
- ◆ **Smruti Ranjan Samantaray**
Odisha, Chattisgarh, MP

BANKERS

- ◆ Bank of India, Mumbai
 - ◆ Indian Overseas Bank, Delhi & Kolkata
 - ◆ HDFC Bank, Mumbai
 - ◆ State Bank of India, Bangalore, Mumbai
 - ◆ The Oriental Bank of Commerce, New Delhi
 - ◆ ICICI Bank, Mumbai
- Auditors:** Singhi & Co., Mumbai
Internal Auditors: S.R. Rege & Company, Mumbai
Tax Auditors: Sharp & Tannan, Mumbai
Secretarial Consultant: V. N. Deodhar & Co., Mumbai

COMMITTEES and Sub-committees

■ Advisory Committee for Investment & Audit:

- ◆ Mr. R.D. Chandak
- ◆ Mr. Chaitanya Desai

■ HR and Administration Committee:

- ◆ Mr. Shreegopal Kabra – President
- ◆ Mr. Harish Agarwal – Vice President
- ◆ Mr. R K Chugh – Vice President
- ◆ Mr. Sunil Misra – Director General

■ Advisory Committee for IEEMA Journal

- ◆ Mr. Mustafa Wajid, MD & CEO, MHM Holdings
- ◆ Mr. Naveen Kumar, Head – Corporate Centre, L&T
- ◆ Mr. Vikram Gandotra, GM (Mktg), Siemens Ltd.
- ◆ Mr. Vijay R. Karia, MD, Ravin Cables Limited

■ Technology & Innovation Committee

- ◆ Mr. Vinamra Agarwal, Director – Technical Associates Limited
- ◆ Mr. P. Ramachandran, ABB India Ltd

■ Economic & Taxation Committee

- ◆ Mr. Adarsh Jain, General Manager (Finance / Commercial), KEI Industries Ltd.
- ◆ Mr. Yogendra Agarwal, Senior General Manager (Finance), Bharat Bijlee Limited
- ◆ Mr. P. Ramkrishnan, Immediate Past Chairman, E&T Committee, L&T Technology Services Limited
- ◆ Mr. G S Sharma, Past Chairman, E&T Committee & Consultant (Taxation) , L&T – MHI Boilers Pvt. Ltd.
- ◆ Mr. Rajeev Aggarwal, Chief Financial Officer, KEC International Limited
- ◆ Mr. Ganesh Tawari, General Manager (Finance), Emco Limited
- ◆ Mr. G. Srinivasan, Head-Finance & Accounts, Larsen & Toubro Limited
- ◆ Mr. P. Sridharan, Sr. Manager (Indirect Taxation), Siemens Ltd.
- ◆ Mr. Sudhir Zutshi, Head – Government Affairs India, Underwriters Laboratories
- ◆ Mr. Narendra Goliya, CMD, Rishabh Instruments
- ◆ Mr. Anand Thakur, Sr. Manager (Commercial), KEI Industries Ltd.
- ◆ Mr. Rahul Shah, Chief Financial Officer, Transformers & Rectifiers India Limited
- ◆ Mr. I. C. Thakur , DGM (Indirect Taxes), Apar Industries Ltd.
- ◆ Mr. Sandeep Tilak , Vice President (Finance & Corporate Strategy), Bharat Bijlee Limited
- ◆ Mr. Sanjay V Desai, General Manager – Taxation, KEC International Ltd
- ◆ Mr. Shrikant P Parikh, Partner, Rajesh & Company Hardchem Electronics
- ◆ Mr. S.C. Maheshwari, Director Finance, RMC Switchgears Ltd
- ◆ Mr. Vinayak Shirsat, VP – Accounts & Taxation), Ravin Infraprojects Pvt Ltd
- ◆ Mr. Rajib Nayan Chaudhary, Dy GM – Mktg, CG Power and Industrial Solutions Ltd
- ◆ Mr. Supushpa Ch Kaushal , Business Development –North, L&T Construction Power Transmission & Distribution
- ◆ Mr. Anshul Goel, General Manager (Finance & Taxation), Special Cables Pvt Ltd

Representation on External Bodies

for the year 2017-2018

Governing Body of Central Power Research Institute	Mr. Shreegopal Kabra Mr. Harish Agarwal Mr. R.K. Chugh
R&D Committee of Central Power Research Institute	Mr. Bapu J. Amritkar Mr. Gopa Srinivas
Development Council for Heavy Electrical & Allied Industries (DCHEAI)	Mr. Hemant Savarkar Mr. R.K. Chugh Mr. A.S. Subramaniam Mr. Atul Arya
Governing Council of National Power Training Institute (NPTI)	Mr. Sunil Singhvi
Governing Body of Quality Council Of India	Mr. R.K. Chugh
Managing Committee of ERDA	Mr. Harish Agarwal Mr. Vipul Ray
Indian National Committee (INC IEC)	Mr. Sunil Singhvi
Governing Council of MSME - Technology: Development Centre	Mr. Anil Saboo Mr. Vikalp Mundra
CII National Committee on 'Capital Goods and Engineering'	Mr. Prakash Chandraker Mr. R. K. Chugh Mr. Vimal Kejriwal Mr. Atul Arya
Advisory Board on Sectoral (M&E) – STQC Certification Services, Ministry of Communication & Information Technology	Mr. Vikram Gandotra
CII – ASCON	Mr. R.K. Chugh
Power Sector Skill Council – Central Electricity Authority	Ms. Ritu Shree
Mission Plan – IMG on Industry Competitiveness, Exports and Conversion of Latent Demand	Mr. Vikas Khosla Mr. Vinamra Agarwal
Mission Plan – IMG on Technology Upgradation and Skills Development	Mr. Vikas Khosla Mr. Vinamra Agarwal
National Council of Confederation of Indian Industry	Mr. Shreegopal Kabra
Bureau of Energy Efficiency	Mr. Sunil Naik Mr. Praveen Vijayaraghavan Mr. Jitendra Agarwal
Central Electricity Authority	Mr. R.K. Shah Mr. Bapu J. Amritkar Mr. Jitendra Agarwal
Bureau of Indian Standards	Mr. Sunil Naik Mr. Praveen Vijayaraghavan Mr. Atul Arya Mr. Anil Saboo

IEEMA Leadership



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Report of the Executive Council Members



The Executive Council takes pleasure in submitting its report on the activities during the year along with the audited statement of accounts for the year ended 31.03.2018

Following meetings of the Council were held in the year 2017-18

Meetings of the Council		
Sr. No.	Date	Venue
1	26th May 2017	New Delhi
2	22nd August 2017	Mumbai
3	22nd September 2017	Mumbai
4	30th November 2017	Mumbai
5	15th December 2017	New Delhi
6	1st February 2018	Mumbai
7	14th March 2018	Noida

MEMBERSHIP

Ordinary Members

During the year 37 companies joined IEEMA as ordinary members. 2 member companies resigned. Details of new members are as follows:

1. Agni Fiber Boards Pvt. Ltd.
2. Gillanders Arbuthnot & Co. Ltd.
3. Indo Electrical
4. ISA Advance Instruments (I) Pvt. Ltd.
5. IVRCL TLT Pvt. Ltd.
6. Kritika Wires Pvt. Ltd.
7. Magnitech Speciality Cables Pvt. Ltd.
8. Nikum Energy Control India Limited
9. Palriwal Industries Private Limited
10. Smisen Controls Pvt. Ltd.
11. Sanvijay Infrastructures Pvt. Ltd.
12. Vendere Sales Services (India) Pvt. Ltd.
13. Wheels Polymers Pvt. Ltd.
14. ABCI Electro Transmissions
15. Clariant Power System Ltd.
16. Gujarat Copper Alloys Ltd.
17. Kailash Transformers Pvt. Ltd.
18. Nirmal Wires Pvt. Ltd.
19. Pami Metals Pvt. Ltd.
20. Safety Controls & Devices Pvt. Ltd.

21. Safvolt Switchgears Pvt. Ltd.
22. Shree Samarth Switchgear & Transmission Pvt. Ltd.
23. Siliguri Electric Works
24. Star Delta Transformers Ltd.
25. Techno Power Enterprises (P) Ltd.
26. Zenium Cables Ltd.
27. ZIV Automation India Limited
28. Bagadia Brothers
29. Fujitec India Pvt. Ltd.
30. Cape Electric Pvt. Ltd.
31. Mr. Ramswaroop Multi Engg.
32. V-Guard Industries Ltd.
33. Vikran Engg. & Exim Pvt. Ltd.
34. A O Smith India Water Products Pvt. Ltd.
35. CMI Limited
36. Elektronika Sales Pvt. Ltd.
37. NHPC Limited

The number of Ordinary Members at the end of the financial year stood at 601 a net reduction of 2 members resignation from membership.

Associate members:

During the year 35 companies joined IEEMA as Associate members. One Member company resigned. Details of new members are as follows:

1. Allied Electro Mechanicals Pvt. Ltd.
2. Amson Transformers
3. Asa Bhanu Technical Services Ltd.
4. Ashmor Electricals (India) Pvt. Ltd.
5. Blu Engineers Pvt. Ltd.
6. Bonfiglioli Transmissions Pvt. Ltd.
7. Champion Advanced Materials Pvt. Ltd.
8. Dusad Electrical
9. Emerys Holding Pvt. Ltd.
10. Energypac Engg. Ltd.
11. Gram Power India Pvt. Ltd.
12. ICI Transformers

13. Indian Engineering Company
14. JFE Shoji Steel India Pvt. Ltd.
15. M&I Materials India Pvt. Ltd.
16. Maa Tara Industries
17. Malde Capacitors Mfg. Co.
18. MBH Power Pvt. Ltd.
19. Modern Software Systems Pvt. Ltd.
20. Multispan Control Instruments Pvt. Ltd.
21. Nord Drive System Pvt. Ltd.
22. Panasonic India Pvt. Ltd.
23. Paramount Seals & Packing
24. Solux Galfab Pvt. Ltd.
25. SSPL Engineers & Contractors
26. Sudarshan Transformers Pvt. Ltd.
27. Sunil & Co. Pvt. Ltd.
28. Techno Associates Vidyut Pvt. Ltd.
29. Tectonicus Services India Pvt. Ltd.
30. United Transformers
31. Utkal Galvanizers Limited
32. Vin Dip India Pvt. Ltd.
33. VSPL Energy Pvt. Ltd.
34. Zain Electrical
35. Zonal Electroplast Pvt. Ltd.

At the end of the year, Associate Membership stood at 170, a net reduction of one member company due to resignation from membership.

Institutional Membership

During the year 2 Institute joined IEEMA as Institutional Members. Details of new members are as follows:

1. Asansol Engineering College
2. Ajay Binay Institute of Technology

At the end of the year, Institutional Membership stood at 3.

Membership Position

The total IEEMA membership at the end of the financial year stood at 774.



IEEMA – Annual Convention and 70th Annual General Meeting



Inauguration of IEEMA Annual Convention 2017

With 'Make in India – Enhancing Global Footprint' being the theme of IEEMA's Annual Convention 2017 held on September 22nd 2017 at Hotel Leela, Mumbai, the Convention witnessed the presence of global powers like United States, Brazil, Iran, Sri Lanka and Korea and the subject was highly appreciated by dignitaries and industry leaders present on the occasion. The convention was followed by the 70th Annual General Meeting of IEEMA where the newly elected President of IEEMA Mr. Shregopal Kabra took over the post.

The annual convention was inaugurated by Mr. Anant Geete, Hon'ble Union Minister of Heavy Industries and Public Enterprises. Also present on the occasion were Dr. Sonia Sethi, Additional Director General of Foreign Trade, H.E. Rosimar da Silva Suzano, Consul General of Brazil in Mumbai, H.E. Masood Ebrahimi Khaleghi, Consul General of the Islamic Republic of Iran, Mumbai, H.E. Saroja Sirisena, Consul General of Sri Lanka in Mumbai, H.E. Kin Sount-eun, Consul General of Korean Consulate in Mumbai and H.E. Gregory Taevs, Commercial Officer, US Consulate.

The Convention was followed by the 70th IEEMA Annual General meeting. Mr Sanjeev Sardana, President, IEEMA presented a report on the activities during the preceding year.

IEEMA felicitated member companies M/s. Bharat Heavy Electricals Ltd who continued to be with the Association for more than fifty years and a memento as token of appreciation for their support was presented.

IEEMA also recognized Ms. Madhura Bhiwandkar 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 President on behalf of the Executive 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 Executive Council Meetings

The Executive Council met on Seven occasions during the year 2017-18

The First Meeting of Executive Council was held on 26th May 2017 at New Delhi. During the meeting Interactive session with Dr. Rahul Tongia, Fellow, Brookings Institution on the subject of 'Future of Electricity' was held. It was also decided to hold the 70th Annual General Meeting on 22nd September at Mumbai".

Council also gave approval for Proposal for Evolution of PV Clauses of AB Cables & Revision of PV Clause for Power Cables.

The Second Meeting of Executive Council was held on 22nd August 2017 at Mumbai. This meeting was basically to approve IEEMA Accounts for the financial year 2016-17.

The Third Meeting of Executive Council was held on 22nd September 2017 at Mumbai. Mr. Shreegopal Kabra, President- 2017-18 welcomed all newly elected Executive Council members, Counselors and other 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. The members discussed on the principal goal of IEEMA about increasing relevance and value for members which in turn should generate a natural traction for increasing membership.

The Fourth meeting of Executive Council was held on 30th October 2017 at Mumbai. Council approved the Proposal for renaming 'Renewable Energy Division' to 'RE & Storage Division'. IEEMA had decided to have a Domestic Electrical Division in view of diversification of product lines of which will be led by Mr. Mithun Chittilappilly, MD of V-Guard Industries Ltd as chairman and Kunal Sunil Kadakia, Director, Precision Plastic Industries P Ltd as Vice Chairman.

The Fifth meeting of IEEMA Executive council was held on Friday, 30th November 2017 in Mumbai. Apart from regular discussion, Members discussed about huge delay on the account of printing of BIS standards and suggested to take a senior level delegation to BIS.

Members also raised serious concern faced by the industry due to Reverse Auction (RA) practiced by Powergrid and other utilities. It was further informed that the unfair and unethical practices being followed under reverse auction by the customers, which are not in the spirit of fair competition.

Members desired IEEMA to take up this matter strongly at appropriate levels.

The Sixth meeting of IEEMA Executive Council was held on 1st February 2018 at Mumbai. Members watched the Budget 2018 speech of the Finance Minister and expressed their views /reactions on the same. Director General briefed on the activities of IEEMA that had happened in between 15th December 2017 and 31st January 2018.

Director General requested all EC members to support the Members Directory by giving Advertisement which is published during ELECRAMA.

Vice President, IEEMA briefed about Proposal for organizing Overhead Line Technology Conference during

T&D Conclave. He said the Conclave will cover designing of towers, erection practices as well as designing practices for transmission line etc. Mr. Manish Agarwal is leading the Conference with the support from two Vice chairmen from Conductor and Cable technology and hardcode technology respectively.

Introduction of IEEMA New Division – Domestic Electrical Division

Director General introduced the newly formed IEEMA Division 'Domestic Electrical Division'. He informed the genesis of introducing this division as IEEMA has membership beyond transmission and equipment manufacturers and there is sizeable membership within IEEMA which is non-utility centric. He welcomed Mr. Mithun Chittilappilly, Chairman of the Division. Chairman gave a brief introduction about the Division.

Closure of non-functional sub-committees of IEEMA

Council decided that Sub-Committees that are not actually functional and also not meeting the mandate of having 3 meetings in a year to be dissolved. Electrical Lamination Committee is one of such Committees alongwith other sub-committees which is not functional, to be dissolved.

The Seventh meeting of Council was held on March 14th, 2018 in Noida. Mr. Shreegopal Kabra, President, IEEMA congratulated all the EC and OC members for the successful completion of ELECRAMA. The president informed that external branding of IEEMA/ELECRAMA has gone up. Mr. Kabra announced the appointment of Mr. Vikalp Mundra as Chairman ELECRAMA 2020 and Mr. Anil Saboo as Vice Chairman.

Members proposed Mr. Sunil Singhvi, Chief Executive (Energy SBU), Secure Meters Ltd as Chairman for INTELECT 2019 which was unanimously agreed.



IEEMA Annual Convention 2017

Delhi



INTERFACE WITH GOVERNMENT AND ITS AGENCIES

Meetings on Cyber Security Threat to Installed Power Systems

On 12th April 2017, Mr. Sanjeev Sardana, President, Mr. Raj Eswaran, Past President, Mr. Kishore Narang, Member and Mr. Sunil Misra, Director General, IEEMA, had a meeting with Dr. Somit Dasgupta, Member (Economic and Commercial), Central Electricity Authority, to discuss the issue of cyber security threat to installed Power Systems of the country.

On 20th April 2017, Mr. Raj Eswaran, Past President, Mr. Sudeep Sarkar, Director and Mr. Uttam Kumar, Executive Officer, IEEMA, attended the second meeting on cyber security threat to installed Power Systems of the country, under the Chairmanship of Dr. Somit Dasgupta, Member (Economic and Commercial), Central Electricity Authority. The meeting was also attended by representatives of Department of Commerce, Powergrid, POSOCO, PwC etc. CEA informed that the inputs received from all stakeholders would be incorporated in the draft report, which would be further circulated to the Committee members.

On 11th August 2017, Mr. Sunil Misra, Director General, and Mr. Uttam Kumar, Executive Officer, IEEMA, attended the review meeting on cyber security threat to installed power systems. The meeting was chaired by Mr. Ajay Kumar Bhalla, Power Secretary and attended by Mr.



R K Verma, Chairman, Central Electricity Authority; Ms. Shalini Prasad, Additional Secretary; Dr. Arun Kumar Verma, Joint Secretary; Ms. Archana Agrawal, Joint Secretary; Mr. Raj Pal, Economic Advisor, Ministry of Power. CEA made a presentation on the report to strengthen the cyber security system in power generation, transmission and distribution sectors. IEEMA proposed to form a monitoring committee which would review the progress every 3 month at CEA level and at Power Secretary level.

On 11th October, 2017, Mr. Sunil Misra, Director General IEEMA, along with some senior members, called on Mr. R K Verma, Chairman, CEA to discuss the recommendations of the CEA report on cyber security and the need for sensitizing the State Governments and the Central and State Utilities, towards this aspect.

On the same date IEEMA officials also met Mr. A K Bhalla, Secretary Power, to discuss issues related to cyber security and cancellation of PPAs of Solar Power in Seven States.

Meetings on ELECRAMA-2018

On 12th April 2017, Mr. Sanjeev Sardana, President, Mr. Raj Eswaran, Past President, Mr. Kishore Narang, Member and Mr. Sunil Misra, Director General, IEEMA, called on Mr. Sudhir Garg, Executive Director, Electrical Division, Ministry of Railways, to discuss and seek support of Ministry of Railways to ELECRAMA-2018.

On 3rd July 2017, Mr. Vishnu Agarwal, Past President, and Mr. Sunil Misra, Director General, IEEMA, along with some senior members, made a courtesy call to Mr. Alok Kumar, Chairman, Uttar Pradesh Power Corporation Ltd. cum Principal Secretary, Energy, Government of Uttar Pradesh. IEEMA officials briefed Mr. Kumar about the activities of IEEMA. Director General also gave details about ELECRAMA 2018 and invited him to participate and support ELECRAMA 2018.

On 6th July 2017, Mr. Sunil Misra, Director General and Mr. Ajay Mahajan, Head- Trade Fair Marketing, IEEMA, met Mr. Sudhir Garg, Executive Director, Electrical Division, Ministry of Railways, requesting his support for the Railway Pavilion at ELECRAMA-2018. Mr. Garg was enthusiastic about the concept and agreed to support the event.

On 19th July 2017, Mr. Vishnu Agarwal, Past President, Mr. Sunil Misra, Director General, IEEMA, along with some members called on Mr. Kamran Rizvi, Chairman and Managing Director, Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited. The IEEMA delegation briefed the CMD about various activities of IEEMA and extended an invitation to him for visiting ELECRAMA-2018.

On 1st December 2017, Mr. Harish Agarwal and Mr. R K Chugh, Vice Presidents, IEEMA, along with other senior officials of IEEMA, met Mr. R K Singh, Hon'ble Minister of State for Power (IC), for inviting him to ELECRAMA-2018 and to discuss various issues related to the electrical industry.

On 10th January 2018, Mr. Vijay Karia, Chairman, ELECRAMA-2018, Mr. Sunil Misra Director General and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. Anil Agarwal, Joint Secretary, Department of Industrial Policy and Promotion, Government of India. Chairman, ELECRAMA-2018, updated the joint Secretary on ELECRAMA and requested the support of the department in organizing the World Utility Summit.

Meetings on Free Trade Agreements

On 26th April 2017, Mr. Vikas Khosla, then Vice Chairman, IEEMA Public Policy Cell and Mr. Sudeep Sarkar, Director, called on Ms. Anice Joseph Chandra, Director, Department of Commerce, Government of India, to discuss product specific rules of origin for products, under Regional Comprehensive Economic Partnership Agreement.

On the same date, IEEMA officials also called on Mr. Bipin Menon, Director, Department of Commerce, Government of India, to discuss exclusion of electrical products under Regional Comprehensive Economic Partnership Agreement.

On 17th October 2017, Mr. Vikas Khosla, Chairman, Public Policy Cell and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting called by Ms. Shalini Prasad, Additional Secretary, Ministry of Power, Government of India, regarding views of the industry on negotiations under Regional Comprehensive Economic Partnership. Mr. Aniruddha Kumar, Joint Secretary, MoP, and other senior officials of Central Electricity Authority were also present in the meeting. Mr. Khosla presented the view points of the industry on aggressiveness of countries like China in supplying electrical equipment to India, having no level playing field to domestic manufacturers; which would further worsen the scenario when RCEP would be brought in.

On 26th April 2017, Mr. Vikas Khosla, then Vice Chairman, IEEMA Public Policy Cell and

Mr. Sudeep Sarkar, Director, met Mr. Sushil Lakra, Consultant, Department of Heavy Industry, Government of India, regarding wish list of Korea, under India-Korea CEPA Agreement.

On 6th December 2017, Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting called by Central Electricity Authority, regarding ongoing negotiations on India-Australia CECA. Dr. Somit Dasgupta, Member, (E&C), Central Electricity Authority, chaired the meeting. The offer list of India under the agreement was discussed in the meeting.

Meetings on Goods and Services Tax

On 25th May 2017, a delegation of IEEMA members, led by Mr. Vijay Karia, Member, Executive Council Member and Chairman, ELECRAMA-2018 and Mr. Sunil Misra, Director General, IEEMA, had a meeting with Dr. Hasmukh Adhia, Revenue Secretary, Government of India. IEEMA represented the issue of high rate of GST of 28%, announced by the GST Council on some electrical products, such as, Wires & Cables, Winding Wires, Transformers, LT Switchgears, Switchboards, Insulator Fittings, Industrial Electronics, Electrical Lamps etc. IEEMA requested the Revenue Secretary to bring these all products under 12% GST, giving suitable justifications. The meeting was also attended by Mr. Alok Shukla, Joint Secretary, Central Board of Excise and Customs.

On 7th June 2017, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, met Mr. Girish Shankar, Secretary, Department of Heavy Industry, Government of India, to apprise him and request intervention of DHI, in the issue of high GST rate of 28% on some of the electrical items, including the Capital Goods. Secretary, DHI agreed to take up and write to Revenue Secretary, in this regard.

On 8th June 2017, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. B N Sharma, Additional Secretary, Department of Revenue, Government of India, and represented the issue of high GST rate of 28% on some of the electrical items,



including the Capital Goods. Mr. Sharma agreed to look into and take up the matter with the Revenue Secretary.

On 13th June 2017 Mr. Sanjeev Sardana, President and Mr. Sunil Misra, Director General, IEEMA, called on Mr. Santosh Kumar Gangwar, Hon'ble Minister of State for Finance, Government of India. IEEMA represented the issue of high rate of GST of 28% on some electrical products. IEEMA requested to get all electrical products under 12% GST, giving suitable justification.

On 22nd June 2017, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee and Mr. Sudeep Sarkar, Director, IEEMA attended a meeting with Mr. Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New & Renewable Energy and Mines on smooth transition of Goods and Services Tax, from 1st July 2017. IEEMA represented the case of high GST rate on some electrical products, such as, wires and cables, electrical panels and switchboards, LT switchgears, insulator fittings etc. IEEMA also pointed out the issue of differential GST rate of 10% in case of projects imports, thereby depriving the domestic industry of the level playing field. Hon'ble Minister advised the Finance Ministry officials to get the provisions of Chapter 98 deleted for power projects and also agreed to speak to Hon'ble Finance Minister in this regard.

On 22nd June 2017, Mr. Adarsh Jain, Chairman, IEEMA Economic and Taxation Committee and Mr. Sudeep Sarkar, Director, attended a meeting called by Mr. Ramesh Abhishek, Secretary, Department of Industrial Policy and Promotion, regarding readiness of Industries on GST. IEEMA pointed out high GST rates on certain electrical products, such as, wires and cables, electrical panels and switchboards, LT switchgears, insulator fittings etc., which needs to be lowered.

On 2nd August 2017, a delegation of IEEMA members, led by Mr. Sanjeev Sardana, President, called on Mr. A K Bhalla, Secretary, Ministry of Power. IEEMA delegation represented the issue of high incidence of tax under GST, to the tune of 20% to 22%, on ongoing power distribution projects, in comparison to tax element of

11% to 12% on same projects during the pre-GST regime. Power Secretary agreed to look into the matter. The IEEMA delegation also congratulated Mr. Bhalla on taking over as Power Secretary and invited him to ELECRAMA-2018, to be held at Greater Noida.

Meetings regarding IEEMA Workshop on Make-in-India and Level Playing Field

On 10th July 2017, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. Girish Shankar, Secretary, Department of Heavy Industry, Government of India, to discuss and give him an update on the Workshop on "Make in India and Level Playing Field", scheduled on 27th July 2017 at New Delhi. IEEMA is conducting this Workshop with Department of Heavy Industry. Mr. Shankar, has kindly consented to preside over the same.

Later, IEEMA officials also called on Mr. Sivanand Nyshadhan and Mr. Bhaskar Jyoti Mahanta, Joint Secretaries in DHI to discuss the promotion of this Workshop, amongst State Utilities and other stakeholders, including Chief Secretaries, Power / Energy Secretaries, Director / Commissioner of Industries. IEEMA representatives also met Mr. Pravin Agarwal, then Director, DHI, on power infrastructure for e-mobility.

On 13th July 2017, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, had a detailed meeting with Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, regarding IEEMA Workshop with DHI on "Make in India and Level Playing Field".

On 14th July 2017, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. Sivanand N, Joint Secretary, Department of Heavy Industry, Government of India, to invite him to Co-Chair two Sessions in IEEMA Workshop with DHI, on "Make in India and Level Playing Field". On the same date, IEEMA officials also met Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, for extending invitations to State Government Officials and Utilities from DHI on the same subject.

On 19th July 2017, Mr. Vishnu Agarwal, Past President, Mr. Sunil Misra, Director General, IEEMA, along with some members, called on Mr. Alok Kumar, Chairman, Uttar Pradesh Power Corporation Ltd. cum Principal Secretary, Energy and Mr. Vishal Chauhan, Managing Director, Uttar Pradesh Power Corporation Ltd. cum Secretary, Energy, Government of Uttar Pradesh to invite them to IEEMA Workshop on 'Make in India and Level Playing Field' on 27th July 2017.



Workshop on "Make in India and Level Playing Field", New Delhi

On 20th July 2017, the same delegation met Mr. Rajive Kumar, Chief Secretary and Mr. Alok Sinha, Principal Secretary, Industries, Government of Uttar Pradesh. IEEMA delegation briefed the officials about various activities of IEEMA and also invited them to IEEMA Workshop on 'Make in India and Level Playing Field' on 27th July 2017 and to ELECRAMA-2018 in March 2018.

Meetings on Quality Control Orders

On 8th June 2017, a meeting was called by Department of Industrial Policy and Promotion, under the chairpersonship of Ms. Vandana Kumar, Joint Secretary, to discuss and understand the implementation issues, regarding Quality Control Order for IS 12615. The major discussion points were exemption of exports from the purview of QC Order, ISI marking on motors, availability of labs for testing, process of BIS license and certification etc.

On 27th September 2017, Mr. Ashok Kulkarni, Chairman, Rotating Machines Division and Mr. Sunil Misra, Director General, IEEMA, along with senior members of Rotating Machines Division, met Mr. Suresh Prabhu, Hon'ble Minister of Commerce and Industry, Government of India. Later, they also called on Mr. Shailendra Singh, Additional Secretary, DIPP and Mr. Sudhanshu Pandey, Joint Secretary, Department of Commerce, to discuss concerns and issues related to implementation of Quality Control Order for IS 12615.

On 9th October 2017, Department of Heavy Industries had called a stakeholders meeting to discuss the proposals of Ministry of Steel to notify engineering goods / value added products, under chapter 84, 85 & 87, under the steel quality control order. The meeting was chaired by Mr. Bhaskar Jyoti Mahanta and Mr. N. Sivanand, Joint Secretaries, Department of Heavy Industry, Government of India. Industry representatives presented their individual issues with DHI, practically opposing the blanket implementation of the Steel Quality Control Orders on value added products.

A delegation of IEEMA Capacitor Division met Ms. Vandana Kumar, Joint Secretary, DIPP, regarding Quality Control Order for Electrical Capacitors, under IS 2993, IS 13340 and IS 13585. The delegation requested Ms. Kumar to extend the date of implementation of the Order (1st February 2018), due to limited number of approved test laboratories. The IEEMA delegation was led by Mr. Deepak Patni, Chairman, IEEMA Capacitor Division. Ms. Vandana Kumar advised IEEMA to discuss the issue with the Bureau of Indian Standards and assured help to the industry.



On 5th January 2018, Members of IEEMA Capacitor, Cable and Motor Divisions, met Head of CMD-I and CMD-II at the Bureau of Indian Standards to discuss the issues related to Capacitor and Motor Quality Control Order and also to discuss regarding the marking fee in Cables, Capacitors and Motors. BIS requested IEEMA to submit a detailed presentation on the issues / areas of concerns for each product and assured members of the positive outcomes.

Meeting on New Industrial Policy

On 22nd June 2017, Mr. Adarsh Jain, Chairman, IEEMA Economic and Taxation Committee and Mr. Sudeep Sarkar, Director, attended a meeting on new Industrial Policy, being evolved by the Department of Industrial Policy and Promotion, Government of India. Ms. Vandana Kumar, Joint Secretary, DIPP, chaired the meeting. IEEMA represented the issue about utility practice for buying LI, without considering the product life cycle cost, and to ensure implementation of other policies of Government of India.

Meeting on Solar Projects

On 28th July 2017, Mr. Vishnu Agarwal, Mr. Raj H. Eswaran, Past Presidents, Mr. Sunil Misra, Director General, IEEMA, along with some senior members of Renewable Energy Division, made a courtesy call to Mr. Jatindra Nath Swain, Joint Secretary, Ministry of New and Renewable Energy, Government of India. IEEMA delegation briefed Mr. Swain on the activities of IEEMA and discussed the issue of extension of deadline for Solar Projects. IEEMA also invited the Joint Secretary to visit ELECRAMA-2018.



Meetings of Electro-Technical Divisions of the Bureau of Indian Standards

On 10th August 2017, Mr. Pawan Jain, Chairman, Distribution Transformers Division, along with Mr. Ajay Sanghi, Member, and IEEMA Secretariat Officials, participated in ETD-16 Meeting of Bureau of Indian Standards. The meeting was chaired by Mr. B V Raghavaiah. IEEMA emphasized on the point of dual certification for distribution transformers and requested that there should be a cooling period of at least two years. BIS agreed to request the Bureau of Energy Efficiency for further extension of gazette notification for a period of one year. It was also decided that BIS would bring an amendment for IS 1180(Part-1):2014 to specify only one level and maximum losses instead of level wise losses.

On 28th November 2017, Mr. J Pande, Sr. Director, and Mr. Uttam Kumar, Executive Officer, IEEMA, participated in the 19th meeting of Winding Wires Sectional Committee (ETD-33) of Bureau of Indian Standards. The meeting was chaired by Mr. R. Acharya, General Manager, BHEL. The meeting was attended by representative of Elantas Beck, ERDA, International Copper Association, NTH, Southern India Engineering Manufacturers Association, Winding Wires Association of India, Development Commissioner MSME, and other officials from BIS.

Meetings on Energy Metering

On 16th August 2017, Mr. Abhay Bakre, Director General, Bureau of Energy Efficiency, called a meeting to discuss the BEE Scheme for smart and affordable electricity metering and understand the industry point of view on the same. Mr. Sameer Pandita, Assistant Energy Economist, BEE, made a presentation on the scheme. IEEMA was represented by Mr. Sunil Misra, Director General and Mr. Akeel Khan, Executive Officer IEEMA, in the meeting.

On 22nd November 2017, a meeting was called by Mr. Gopalakrishna S, Joint Secretary - Digidhan Mission,

Ministry of Electronics and Information Technology (MeitY) to understand the role of Energy Meter in promoting the Digital transactions and moving towards the cashless economy and how to promote more digital transactions in State utilities. A Delegation of IEEMA Meter Division, led by Mr. Sunil Misra, Director General IEEMA, attended the meeting and appraised Mr. Gopalakrishna about the strength of meter manufacturers in India and various technologies available in the country.

On 18th December 2017, a meeting was called by Ministry of Power, under the Chairmanship of Mr. R K Singh, Hon'ble Minister of State for Power (I/C), to roll out prepaid Metering / Smart Metering in India. Mr. A K Verma, Joint Secretary (Distribution), Ministry of Power, apprised of the discussions the Ministry had earlier with the Meter manufacturers, regarding Smart Metering and capacity of domestic meter industry. Hon'ble Minister requested the manufacturers to update him about the available Metering technologies.

Meeting on ELROMA-2017

On 18th August 2017, Mr. Ashok Kulkarni, Chairman, Rotating Machine Division and Mr. Sunil Misra, Director General, IEEMA, met Dr. R Chidambaram, Principal Scientific Adviser to the Government of India and Chairman, SAC-C, to invite him as Chief Guest of ELROMA-2017, held on 14th and 15th September 2017, at Mumbai.

Meetings with Central Electricity Authority

On 22nd August 2017, the first monitoring committee meeting was held at CEA office to discuss the issues related to Distribution Transformers. The meeting was chaired by Mr. Ghanshyam Prasad, Chief Engineer, Distribution Planning Division, Central Electricity Authority. Representatives from IEEMA, ITMA, AITMA, BESCOM, Tata Power Delhi participated in the meeting. IEEMA was represented by Mr. Alok Agarwal, Vice Chairman, Distribution Transformer Division; Mr. Pramod Sharma, Schneider Electric; Mr. Atul Mathur, Prolec GE; Mr. J. Pande, Sr. Director, IEEMA and Mr. Uttam Kumar, Executive Officer.

On 27th November 2017, an IEEMA delegation led by Mr. Pawan Jain, Chairman, Distribution Transformer Division, called on Mr. R K Verma, Chairman, Central Electricity Authority, to discuss about organising awareness workshops on electrical safety and best practices of installation and maintenance of distribution transformers. CEA assured all support to IEEMA for organising this workshop. To start with, the first workshop was suggested to be organised in Delhi and later at other metro cities.



Meeting with Secretary, Power

On 31st August 2017, Mr. Sunil Misra, Director General, along with members of IEEMA, met Mr. A K Bhalla, Secretary Power. Mr. Misra extended invitation to the Secretary Power for the Annual Conference of IEEMA, held on 22nd September 2017 at Mumbai. Representations made by IEEMA on Standard Bidding Document for T&D Projects, Smart Meter Rollout, Implementation of CEA Advisory on domestic competitive bidding for domestically funded projects, Issue of Dual Certification of Distribution Transformers by BIS and BEE, Delay in testing of DT at CPRI (mandatory requirement for BEE and BIS certification), High CPRI testing charges were submitted.

Meetings on Public Procurement (Preference to Make in India) Order 2017

On 14th September 2017, Mr. R K Chugh, Vice President, Mr. Vikas Khosla, Chairman, Public Policy Cell and Mr. Sudeep Sarkar, Director, IEEMA attended a meeting called by Mr. Sivanand N, Joint Secretary, Department of Heavy Industry, Government of India, on Public Procurement (Make in India) Order 2017 related to Capital Goods Sector. Inputs on final products, such as, domestic production, value addition and international trade were sought, which was furnished by IEEMA.

On 5th January 2018, Mr. Vikas Khosla, Chairman, Public Policy Cell and Mr. Sudeep Sarkar, Director, attended a meeting chaired by Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry. The meeting was called to deliberate on notifying products for public procurement in the capital goods sector, based on the Public Procurement (preference to Make in India) Order, 2017 of the Government of India. Ms. Ritu Pandey, Director, DHI, was also present in the meeting. IEEMA

had submitted its inputs earlier on the domestic content and value addition of products in the country.

Meeting with Competition Commission of India

On 19th September 2017, Mr. Vikas Khosla, Vice Chairman, Public Policy Cell and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. Amit Tayal, Deputy Director General, Competition Commission of India. IEEMA discussed the issues of LI vs. life cycle cost and the adverse impact of Reverse Auction practiced by power utilities.

Meetings with Powergrid

On 20th September 2017, a delegation of IEEMA members, comprising of Mr. Adarsh Jain, Chairman, Economic and Taxation Committee; Mr. R K Shah, Vice Chairman, T&D Projects Division, representatives of BHEL; KEC; Gupta Power; L&T; Skipper; Cable Corporation Ltd. and Director General, IEEMA, had a meeting with Mr. D C Joshi, Executive Director (Contracts), Powergrid Ltd. Members deliberated on the issues with Powergrid, related to ongoing and future EPC Contracts after the implementation of GST.

On 12th October 2017, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee, along with a few members of T&D Projects Division, attended a meeting with Powergrid Ltd. regarding issues related to GST. The meeting was attended by Mr. D.C. Joshi and Mr. S.K. Mishra, Executive Directors and a few other senior officials of Powergrid Ltd. IEEMA once again raised the issue of applicability of GST on freight and insurance on on-going projects, and also submitted copies of the opinions, in this regard, received from EY and PwC. After deliberations, Powergrid agreed to take a second opinion on the subject. The other issues discussed were multiple invoicing, billing for contract covering multiple states, issues with SAP regarding the different address in contract and billing, pending C forms, credit notes, price revision due to GST etc.

Meeting on New and Renewable Energy

On 10th October 2017, Senior officials of IEEMA, including, Mr. Vishnu Agrawal, Past President; Mr. Raj H Eswaran, Past President; Mr. R K Chugh, Vice President; Mr. Vinamra Agrawal, Member Executive Council; Mr. Vikalp Mundra, Chairman, Renewable Energy Division; Mr. Sunil Misra, Director General, and Mr. Vivek Arora, Executive Officer called on Mr. Anand Kumar, Secretary, Ministry of New and Renewable Energy, Government of India to discuss the concerns of Renewable Industry, specifically in PPAs, GST, SECI Payments etc. Mr. Anand Kumar assured IEEMA members that their concerns would be resolved shortly.

Meeting with Hon'ble Power Minister

On 11th October 2017, senior members of IEEMA called on Mr. R K Singh, Hon'ble Minister of State for Power (I/C), to discuss and seek guidance on issues related to Smart Meters, Cyber Security and Cancellation of PPAs of Solar Power in Seven States.



Meeting on Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) Scheme

On 16th October 2017, Mr. Vikas Khosla, Chairman, Public Policy Cell and Mr. Sudeep Sarkar, Director, IEEMA, called on Ms. Preeti Madan, Senior Economic Advisor, Department of Industrial Policy and Promotion, Government of India. Ms. Madan discussed the capacities and capability of Indian electrical industry related to supplies to Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) Scheme of the Government of India. The other points for discussions were issues related to GST, Make-in India, Surge in imports from China etc.

Meeting on MAI support to IEEMA

On 20th November 2017, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. B S Bhalla, Joint Secretary, Department of Commerce, Government of India, to request approval of foreign buyers from Latin American Countries, in the forthcoming Reverse Buyer-Seller Meet of IEEMA. IEEMA representatives also discussed a few issues related to MAI Scheme of the Government of India. Later, IEEMA submitted a representation in this regard to the Joint Secretary.

Pre-Budget Meetings

On 22nd November 2017, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee and Mr. Sudeep Sarkar, Director, IEEMA, attended the Pre-Budget meeting called by the Ministry of Mines, Government of India. The meeting was chaired by Mr. Subhash Chandra, Joint Secretary, Ministry of Mines. Among various other points, IEEMA raised the issue of duty anomaly in manufacturing of Conductors and Cables, since both these finished products and their raw material i.e. Aluminium attract a basic customs duty of 7.5%. IEEMA recommended reduction in basic customs duty on Aluminium from 7.5% to 5%. Also a concessional basic customs duty of 5% on imports of these finished products, under Chapter 98 (projects imports) is making the finished products import attractive. IEEMA recommended increase in basic customs duty to 10% for imports of finished products i.e. Conductors, Cables etc. under Chapter 98.

On 29th November 2017, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee, along with a few members of the Committee, attended the Pre-Budget meeting with Department of Industrial Policy and



Promotion, Government of India. The meeting was chaired by Ms. Preeti Madan, Principal Economic Adviser, in presence of Ms. Kokila Jayram, Deputy Director, DIPP. IEEMA presented its Budget recommendations on Customs Duty, GST and Direct Taxes in the meeting.

On 4th December 2017, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee, along with a few members of the Committee, attended the Pre-Budget Meeting with Ministry of Finance, Government of India. Ms. Vanaja N Sarna, Chairperson, Central Board of Excise and Customs, chaired the meeting. IEEMA made a presentation on the key issues submitted by it, in its Pre-Budget proposals for the year 2018-19. The meeting was also attended by Dr. John Joseph, Member (Budget); Mr. Alok Shukla, Joint Secretary (Tax Research Unit I) and other officials of Central Board of Direct Taxes.

On 3rd January 2018, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee, Mr. G S Sharma, Former Chairman of the Committee and Mr. Sunil Misra, Director General, IEEMA, attended a pre-budget meeting called by Ministry of Power, Government of India. The meeting was chaired by Mr. R K Singh, Hon'ble Minister of State (IC) for New & Renewable Energy and Power. Mr. A K Bhalla, Secretary; Ms. Shalini Prasad, Additional Secretary; Mr. Aniruddha Kumar, Joint Secretary and Mr. Raj Pal, Economic Adviser, Ministry of Power, were also present in the meeting. The Economic Adviser presented the pre-budget recommendations of the Ministry of Power to the Ministry of Finance, which was based on the suggestions received from Trade and Industry Associations (including IEEMA), CEA and its public sector undertakings.

Meeting with Bureau of Energy Efficiency

On 1st December 2017, Mr. Uttam Kumar, Executive Officer, IEEMA, attended the stakeholders meeting called by Bureau of Energy Efficiency, chaired by Dr. Ashok Kumar, Director, Bureau of Energy Efficiency. Representatives from CMA, CEAMA, FISME, RAMA, Voltas, Panasonic, Genus, Bajaj Electrical Ltd., Polar Fans, ITMA, India Energy Exchange also participated in the meeting. The meeting was called to discuss the tax incentives and invite suggestions from different stakeholders to promote energy efficiency projects and products.

Mumbai



Meeting with Mr Ajoy Mehta, Municipal Commissioner, BMC

On 15th June 2017, Mr Anil Naik, Organising Committee member, ELROMA 2017, along with IEEMA Secretariat extended invitation to Mr Ajoy Mehta, Municipal Commissioner, BMC for ELROMA 2017 and discussed with him about numerous activities being undertaken by IEEMA for Maharashtra Power sector.

Meeting with Mr. Abhijit J. Deshpande, Director (Operation), Maharashtra State Electricity Distribution Company Limited

On 11th July 2017, Capacitor division Meeting with Mr. Abhijit J. Deshpande, Director (Operation), Maharashtra State Electricity Distribution Company Limited for effective rolling out of harmonic notices in line with IEEE 519.

Capacitor Division meeting with Sri Deepak Lad, Member, MERC

On 13th November 2017 IEEMA Capacitor Division Members met Sri Deepak Lad, Member, MERC to meet us and discuss the Harmonics matters in depth and MERC regulation on the same. It was an ideal opportunity to



discuss various issues pertaining to Harmonics matters and sharing with IEEMA members the way forward.

IEEMA & IESA organised a Two Day Masterclass on Energy Storage Technology, Applications & Manufacturing Process on 17th and 18th November, 2017 at Mayfair Banquet, Mumbai.

Accelerating advanced energy storage manufacturing in India is an initiative by IESA and IEEMA. This was a very unique programme first of its kind in India. The objective of the Masterclass is to help companies who want to diversify and want to enter into the Energy Storage manufacturing to understand opportunities to get integrated in global energy storage manufacturing ecosystem.

In his welcome address Mr Shreegopal Kabra President IEEMA opines, "There is a large opportunity emerging in electric vehicle and changing infrastructure space in India. Indian companies should grab this opportunity to enter into new business verticals to create a large sustainable energy storage market.

In his introductory address Dr. Rahul Walawalkar, Executive Director, Indian Energy Storage Alliance (IESA) & Vice Chair, Global Energy Storage Alliance (GESA) says, "India is already being considered as amongst the top 3 markets for advanced energy storage after China and USA. In recent past, India has missed the manufacturing opportunity while adopting technology transitions such as cellular telephones and solar energy. But we still have time to build a world class manufacturing infrastructure for advanced energy storage. IESA has set a vision of making India a global hub for manufacturing of advanced energy storage systems by 2022.

The participants were very happy from the insights provided by the industry experts about complete range of energy storage technologies including advanced lead acid, li-ion batteries, flow batteries, flywheels, ultra-capacitors and other emerging technologies. They also share insights on the manufacturing and various government programs that can help Indian companies in setting up manufacturing as well as acquiring technology and intellectual property rights. In the concluding session business entry and strategy to highlight key decision factors and risks for venturing into this new market segment been covered.

The first edition witnessed 37 participants, companies like Aakash Powertech Pvt.Ltd., Scope T&M Pvt.Ltd., Chhabhi Elecricals Pvt. Ltd., Transcon Industries, Godrej & Boyce, Veratek Power Solutions, Bharat Heavy Electric Ltd., (BHEL), Sonkul Energy Products Pvt. Ltd., KRYFS Power Components, Mittal Electronics, Eaton Technologies Pvt. Ltd., Fonroche Saaras Energy Pvt. Ltd; Hinduja Renewables Pvt. Ltd; Electrical Research & Development Association (ERDA), Ravin Group of Companies, Relyon Solar Pvt Ltd., Waaree Energies Ltd, Supreme & Co; Ashok Leyland Ltd., Alex Astral Power Pvt. Ltd., Rajasthan Powergen Transformer Pvt. Ltd; C & S Electric; CTR Mfg. Ind. Ltd., Reliance Infrastructure Ltd., EVIO Private Limited; Green Ponds; Precimeasure Controls Pvt Ltd., Defence Machinery Design Establishment (DMDE), Yashaswi Ispat Pvt Ltd; Secure Meters

Workshop at Best Practices Earthing & Grounding Practices for Improved Productivity & Profitability at Nashik

IEEMA organised a One day Workshop on "Best Practices Earthing & Grounding for Improved Productivity & Profitability" on 22nd December, 2017 at Nashik Engineering Cluster, Nashik. This awareness workshop was conducted by the empanelled faculty Cdr. Yogesh



Masterclass on Energy Storage Technology, Applications & Manufacturing Process, Mumbai



Workshop on Best Practices Earthing & Grounding Practices for Improved Productivity & Profitability

Chaudhari (Retd), PMP ®, Co-Founder and COO of M/s Adler Technoserve Pvt. Ltd, with an objective to refresh and upgrade participants' knowledge on adopting best earthing and grounding practices. He also explained how failures due to poor earthing and grounding can affect productivity and profitability of a business.

The workshop was attended by 41 participants from IEEMA Member companies, member companies of Nashik Industries & Manufacturers' Association (NIMA) & Electrical Contractors Association of Maharashtra (ECAM), MSEGCL - Bhusawal, MSEDCL – Nashik & Aurangabad, BEST Undertaking - Mumbai, Electrical Research & Development Association - Baroda. Apart from explaining to the participants various aspects of earthing and grounding such as reference standards, systems and assessment programs, they were engaged in analysis of case studies and video clips on best practices, which made this workshop highly interactive. Participants gave overwhelming feedback.

Participants from MSEGCL & MSEDCL requested for more such workshops designed to their specific needs be conducted at their premises for their other team members. A few IEEMA Membership enquires generated from members companies of NIMA & ECAM.

Meeting on 'Impact of cheap Chinese consumer goods on Indian Industry'

IEEMA along with other Industry Associations was invited to give its views on 'Impact of cheap Chinese consumer goods on Indian Industry' before the **“Department related Parliamentary Standing Committee on Commerce”** (DRPSC), constituted by Rajya Sabha Secretariat in association with Department of Industrial Policy and Promotion, Ministry of Commerce and Industry on 16th January 2018. IEEMA was represented by Mr. Anil Naik, Head – New Business Initiatives (Motors), Bharat Bijlee Ltd & Mr. Suhas Nawathe from IEEMA Secretariat. DRPSC consisted of twenty members' panel comprising of Member of Parliament & DIPP officials. Mr. Naik presented before the Committee issues related to Import Threat from China for Indian electrical equipment industry and Cyber Security threat to Indian electrical grid due to Chinese SCADA system with emphasis on following points –

- Adverse Impact of basic Customs Duty concessions under Chapter 98 & Free Trade Agreements
- Safeguard / Anti-dumping duty
- Quality Order on electrical equipment
- Unfair pricing advantage to the extent of 24% enjoyed by the Chinese manufacturers over Indian manufacturers due to their Government support for cheaper credits, use of technology, export subsidies, lower tax rates
- Issues pertaining to electric equipment growth & surge in imports leading to capacity utilisation below 65 %, especially for Electrical Motors, Insulators and HV Switchgear
- Cyber Security threat to Indian electrical grid due to Chinese SCADA systems installed by Chinese contractors for various projects in India

All the above points were well received and noted by the Chairman of the Committee Mr. Naresh Gujral, MP and other committee members. Mrs. Roopa Ganguly, MP, Dr. S.S.Gupta, Secretary DIPP & Mr.Yogesh Gupta, Under Secretary DIPP acknowledged the concerns of Electrical Equipment Industry raised by Mr. Naik in a personal interaction after the meeting.

Workshop on Gas Insulated Switchgear (GIS) Basics, Installation, Operations, Monitoring and Maintenance.

IEEMA organised One day Workshop on “Gas Insulated Switchgear (GIS) Basics, Installation, Operations, Monitoring and Maintenance” on 24th April, 2018 held at Mayfair Banquet, Worli Mumbai. The workshop was conducted by the empanelled faculty Mr. Satish Gupte, who has been the Chairman of IEEMA's Switchgear & Control Panel Committee in the past. He covered all aspects of Gas Insulated Switchgear (GIS) including the crucial ones like Installation, Operations & Monitoring in great detail. He also answered many queries from delegates on critical aspects of GIS viz. Installation & Maintenance.

The workshop was attended by 52 participants from IEEMA Member companies, MSEDCL, MSETCL, Electric Supply Division of BEST Undertaking, Electrical Research & Development Association - Baroda. Delegates gave overwhelming feedback. One of the delegates Assistant Engineer from MSEDCL requested that the same workshop be conducted in-house at MSEDCL Training Centre at Kalyan for the benefit other Engineers, which will be conducted by IEEMA on a mutually suitable date.

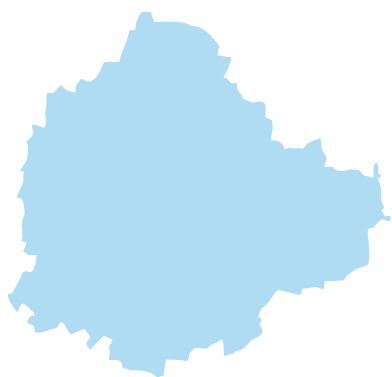
“PREVIEW OF ELECRAMA 2018”



“PREVIEW OF ELECRAMA 2018” was organized on 9th February 2018 at Walchand Hirachand Hall of IMC Chambers of Commerce & Industry, Churchgate, Mumbai, which was attended by 100 plus members of different Industry Associations & Chambers of Commerce such as Control Panel & Switchgear Manufacturers’ Association (COSMA), Bombay Metal Exchange, The Indian Institute of Architects, Builders Association of India, Electrical Contractors’ Association of Maharashtra, Electrical Merchants Association, Consulate General of Brazil and also delegates from Reliance Energy, BEST, Ambit Capital, HDFC AMC, Bombay Stock Exchange Ltd.. Mr.Vijay Karia, Chairman, ELECRAMA 2018 presented all details of ELECRAMA exhibition to be held

at Greater Noida from 10th to 14th March 2018 and the concurrent events such as Global Summits, B2B events, Start Up Innovation Showcase, Network to Networth happening along side exhibition. Mr.Shreegopal Kabra, President IEEMA brief delegates on IEEMA, its activities and the benefits of being on a platform provided by IEEMA as an apex Association of power sector. Mr.Aaditya Dhoot gave a brief on ELECRAMA 2016 after playing the video of “Retrospective of ELECRAMA 2016” and also explained how connecting with IEEMA has been beneficial to its members and to the industry as a whole. The event ended with Vote of Thanks proposed by Mr.Aaditya Dhoot.

Bangalore



Meeting with KPTCL Officials



On 30th May 2017 A meeting to discuss “Amendment in Contract Terms & Conditions for Supply of Electrical Equipment” was convened. IEEMA delegation of 26 MEMBERS attended the meeting from 24 member organisations. The delegation was led by Mr Satyajit Chattopadhyay, member IEEMA Executive Council. MR H NAGESH, Director Transmission chaired the meeting along with other KPTCL officials.

Interactive Session with Mr. D H Basavaraju, Chief Electrical Inspector to Govt of Karnataka



On 18th May 2017 An interactive session was organized for Elevators & Escalators Division members with **Mr. D H Basavaraju** – Chief Electrical Inspector to Govt. of Karnataka to review required changes to be done in Karnataka Lift Act Rules.

Gujarat



Report Release on Gujarat results of Greening the Grid at GERC, Gandhinagar

IEEMA Gujarat Members were invited to the report release. GREENING THE GRID PROGRAM is a joint initiative by USAID and Ministry of Power. The use of renewable energy (RE) sources, primarily wind and solar generation, is poised to grow significantly within the Indian power system. The Government of India has established a target of 175 gigawatts (GW) of installed RE capacity by 2022, including 60 GW of wind and 100 GW of solar, up from 29 GW wind and 9 GW solar at the beginning of 2017. Using advanced weather and power system modeling made for this project, the study team is able to explore operational impacts of meeting India's RE targets and identify actions that may be favorable for integration.



Workshop on "Transformers - Design Aspects, Modern Trends in Application, Installation, Operation & Maintenance", Vadodara

"One day Workshop on "Transformers - Design Aspects, Modern Trends in Application, Installation, Operation & Maintenance", Vadodara

05th January 2018, A workshop on "Transformers - Design Aspects, Modern Trends in Application, Installation, Operation & Maintenance" was conducted at Vadodara. Mr. Manjit Singh Sethi Chairman, Power Transformer

Division, IEEMA & Vice President & Head Transformers, ABB India Limited in his opening remarks shared IEEMA power Transformer division activities and shared more such knowledge sharing workshops will be conducted at regional levels. He urged the participants to utilize the day well in interacting with the learned faculty from the industry. The workshop was conducted by, Mr. B. G. Jhariwala, Transformer Design Expert, Dr. Aradhana Ray, Laxmi Associates, Dr. S. H. Chewtani, Asst. Director & Head (R&D) at Electrical Research and Development Association (ERDA), Mr A.S.Khopkar, Manager & Acting Head - Power Equipment Testing And Evaluation - II Electrical Research And Development Association (ERDA) and Mr Y.I.Pathan -Manager, Head of section. 120kA, Short Circuit Lab. Electrical Research And Development Association (ERDA). The objective of the workshop was to refresh and update the knowledge of professionals about the current techniques in Transformers and to discuss the various problems related thereto pertaining to Design, Installation, Operation & Maintenance, and Faculty also took this opportunity to showcase various case studies. Electrical Research And Development Association (ERDA) shared a presentation on A Modern Approach of Monitoring Health of Transformers by Health Index, ERDA's Experience in failure modes of Transformer during Short circuit and ERDA's Experience in Failure modes of transformer during Impulse Test. The workshop was attended by 57 participants from IEEMA Member and non-member companies

Meeting with Ms Mamta Varma (IAS), Industries Commissioner, Government of Gujarat

On 05 February 2018, IEEMA officials met Ms Mamta Varma (IAS), Industries Commissioner, Government of Gujarat, to invite the commissioner for MSME Conclave in Vadodara on 17th February. Ms Varma appreciated IEEMA's efforts to organize the event in the state.

ELECRAMA 2018 Road Show – Vadodara



A preview of ELECRAMA 2018, Vadodara

On 20 February 2018, The ELECRAMA 2018 Road Show was organised in Vadodara. The road show was attended

by 140 participants from electrical industry in Gujarat. The participants were attendees from counterpart organization, Chamber of Commerce, Associations as well as Utility heads. Mr. Vipul Ray, Member Executive Council, IEEMA and Managing Director Elmex Controls Pvt Ltd in his opening remarks welcomed Mr. B B Chauhan, Managing Director GETCO. Mr. Chauhan in his

inaugural address shared his vast experience in attending such an esteem event organized by IEEMA, and the growth of the event over the years. Mr Vijay Karia, Chairman, ELECRAMA-2018 in his presentation shared and highlighted why ELECRAMA 2018 makes for the perfect showcase for entire Electrical Industry and its Value Chain.

Haryana, Himachal Pradesh, & Punjab



The Chandigarh Chapter of IEEMA organised members meet on 29th April, 17th August and 7th October 2017 for discussing the regional level events. The members also discussed the upcoming events. It was hosted by Chitkara University with the following agenda:

- To address local issues on expedient basis
- Reach the MSME of the industry.
- Generate cohesiveness among industry members present in the geography
- Ensure the areas of concerns and common interest that need escalation
- Generate interest among non members in the region

- Conceptualize localized events, training programmes and seminars
- Increase engagement with State Utilities and other relevant stake holders



- The Zonal Chapter should actively advocate local public policy and involve utilities towards better and more meaningful impact in the region.
- Meetings with important client or key government / semi government authorities as an IEEMA body for representation on issues that pertain to cross-segments implication.
- Different training programs will be conducted after adding few members to the data.

Workshop & Interactive session on “GST & Post Implementation Issues”

The Chandigarh Chapter of Ieema organised a workshop on 7th October 2017 on the topic “GST & Post Implementation Issues. There were around 20 participants from different organizations. GST is a game changing reform for Indian economy by developing a common Indian market and reducing the cascading effect of tax on the cost of goods and services.

Meeting with Mr. Ravinder Kaushik, Assistant Excise and Taxation Commissioner, Chandigarh.

8th September 2017, a meeting was held with Mr. Ravinder Kaushik, Assistant Excise and Taxation Commissioner, Chandigarh to discuss for the GST Training for the Chandigarh Chapter Members and Non Members. Mr. Kaushik assured that they are ready to help the Industry and Association for any future requirements.

Meeting with Mr. Vineet Garg, the Managing Director – HVPNL and HPGCL, Haryana and Mr. A Venuprasad, CMD – PSTCL and PSPCL, Punjab



A meeting was held with Mr. Vineet Garg, the Managing Director – HVPNL and HPGCL, Haryana and Mr. A Venuprasad, the CMD – PSTCL and PSPCL, Punjab to discuss the contract terms and conditions with EC members and other industry members.

Meeting with Mr. Surinder Mittal, OSD to Managing Director HPGCL, Haryana

IEEMA officials met Mr. Surinder Mittal, OSD to Managing Director HPGCL, Haryana and the Director of HPGCL, and discussed about the upcoming solar project of Haryana Govt and the product requirements for the implementation.

Meeting with officials of Sh. Charanjit Singh Channi, Minister of Technical Education and Industrial Training, Punjab

A meeting took place with the officials of Sh. Charanjit Singh Channi's, Minister of Technical Education and Industrial Training to discuss the opportunity for technical colleges and universities to become IEEMA member. The universities can explore the opportunities of internship, research programs, trainings and placements from the Industry.

Renewable energy consumption and scope

A meeting was held with Chairman, HAREDA, to discuss about production and consumption of Renewable Energy in Haryana along with net metering. The role of renewable energy in meters and also the procurement of goods from the Indian market was discussed .

Interaction with Haryana Government and Utilities

Regular interaction with the senior officials of Haryana Government and Utilities was done the entire year to keep them updated about the activities of IEEMA. Delegate participation from different department for different seminar and conferences was done as one of the major activity. IEEMA today is a known face to the Haryana Government in almost all the departments.

Interaction with Punjab Government and Utilities:

Regular interaction with the senior officials of Punjab Government and Utilities was done the entire year to keep them updated with the activities of IEEMA as well as to maintain a rapport with them. Delegate participation from different department for different seminar and conferences was done as one of the major activity. Today IEEMA is a known face to the Punjab Government in almost all the departments.

Interaction with Himachal Pradesh Government and Utilities

Regular interaction with the senior officials of Himachal Pradesh Government and Utilities was done the entire year to keep them updated with the activities. Delegate participation from different department for different seminar and conferences was done as one of the major activity.

Interaction with members

Regular interaction with IEEMA Members were made for understanding their needs updating them about various activities and development work performed by IEEMA in different sectors. 3 Membership meetings were done to meet this objective.

Interaction with Non members:

Regular interactions with Non Members was made for understanding their needs updating them about various activities.

Interaction with other Associations

Local Association bodies like CII, ICAI, ERDA, Mohali Industries Association, Panchkula Chambers, Parwanoo, Baddi Association, Ambala Chambers, Industries and Commerce Ludhiana, PHD Chambers and others were visited from time to time for discussing the activities of IEEMA and also to understand their strategies.



Factory Visits

Factory visits to different Electrical Manufacturing segments were done under IEEMA initiative and during

factory visit interaction was mostly with the proprietor or the senior most officials of the organization about IEEMA activities

Interaction with Print and Electronic Media

Regular interaction with the local publication is done to maintain a rapport and enhancing the brand image of IEEMA.

Initiative for Academia Member

Factory visits of Gwalior, students to different members for the students to understand and experience the practical working of the Electrical Industry Manufacturing Units.

Jammu & Kashmir



Capitalised on market research and collected contact details of concerned officials, members and non-members in industries and power in the state of Jammu & Kashmir (J&K). Held meetings with members and non-members in the region. Visited different industrial estates in the state and collected important contact information of Managing Directors and CEO's of the concerned electrical equipment manufacturers in J&K. Ensured wide publicity for IEEMA through local newspapers. Collected important details of the concerned higher-ups in utility and government concerned.

Meetings with Members & Non-Members

- Held regular interactions with Mr. Nisar Ahmad Baba, Director at Alba Power- IEEMA Member

from Srinagar, J&K, Mr. Naseer Ahmad, Managing Director at Naseer Electrical Industries-IEEMA Member from Baramulla, J&K, Mr. Mohammad Altaf, Managing Director at North Sun Enterprises-IEEMA Member from Srinagar, J&K and sought his feedback about functioning and services of IEEMA.

- IEEMA officials regularly met Mr. Vinod Sachdeva, Managing Director at Electric Field-IEEMA Member from Jammu, Mr. Waseem Ahmad Khateeb, Managing Director at Zain Electrical Industries in Srinagar and discussed with him about benefits of IEEMA Membership and about various initiatives of IEEMA Secretariat with the Ministry of Power.
- Meetings with Non-Members at Industrial Estate in Sanat Nagar, Rangreth, Zainakoot, Parimpora, Khanmoh and Nowshehra for discussing the benefits of IEEMA Membership.



Government and Utility Interactions

- IEEMA officials met Deputy Chief Minister and Power Minister of J&K, Dr. Nirmal Singh and discussed about ELECRAMA and INTELECT Exhibitions. The discussion also revolved around Smart Electricity and Mission Plan 2022 and role of IEEMA Secretariat for the development of power sector and growth of electrical industry in the country.
- Similar interactions were done with Mr. Dheeraj Gupta Principal Secretary Power, J&K, Mr. Hirdesh Kumar, newly appointed Principal Secretary Power, J&K, Dr. Shah Faesal, Managing Director, JK SPDCL, Government of Jammu & Kashmir,

Mr. Sheikh Gul Ayaz, Development Commissioner Power, JK PDD, Mr. Asgar Ali Majaz, newly appointed Development Commissioner Power, JK PDD, Government of Jammu & Kashmir, Er. Mohammad Yousuf Baba, Director Technical, JK PDD, Government of Jammu & Kashmir and Chief Engineers in , JK PDD and JK SPDCL, Government of Jammu & Kashmir.

New Member Enrolment

- Two new members were enrolled from Jammu and Kashmir. Naseer Electrical Industries from Baramulla, J&K and Zain Electrical Industries from Srinagar, J&K. Both of them are into manufacturing of Distribution Transformers.

West Bengal



ERC-2017-18

The ERC meeting was held on 21st April 2017 in Kolkata. The ERC meeting was graced by Mr. Partha Roy Chowdhury, Commissioner, Service Tax and his colleague Mr. Debasish Guha Biswas, Chief Superintendent from the same dept. Mr. Guha Biswas gave a very brief presentation on GST and coupled with this a brilliant presentation was also made by Mr. Rajarshi Dasgupta from KPMG



The next ERC meeting was held on 4th August 2017, where an interactive session was organized with Dept of Power, Govt of West Bengal at The Lalit Great Eastern to discuss on the various aspects of developing West Bengal as an energy hub for east and north east India and also making it an energy hub for neighboring South East Asian countries. The objective of this idea is to make this energy hub by mainly focusing on establishing a state-of-the art testing facility. ERDA was invited to make a presentation on this objective to understand their types of support they would need from the industry and state govt. IEEM EC members and the entire IEEMA ERC leadership was present and a hi-level delegation from Dept of Power & NES, Govt of West Bengal was present. The state govt was represented Mr. Rajesh Pandey, CMD & MD, WBSEDCL & WBSETCL and IEEMA was represented by Mr. R K Shah, Chairman, ERC and Mr. Harish Agarwal, VP-IEEMA, Mr. Sunil Misra, Director General, IEEMA.



On 27th Oct' 17 the ERC meeting started off with customary round of introduction and ERC was happy to see such gathering of newly admitted members of IEEMA from eastern region in large numbers. Mr. R K Shah formally completed his tenure as Chairman, ERC and handed over the baton of chairmanship to Mr. Nirmal Saraf, Managing Director, Nirmal Wires Ltd. The

members duly accepted the proposal and congratulated the new chairman.

The ERC meeting held on 8th December 2017 was chaired by Mr. Nirmal Saraf, Chairman, Eastern Region,



IEEMA. The meeting started off with confirmation of the minutes of the previous meeting and followed by a discussion on forth coming edition of E3 summit. Vice-President Mr. Harish Agarwal also proposed to hold a RBSM for this edition of E3. Asansol Engineering College made a special request to create a pool of potential candidates who could be absorbed for internship within IEEMA members.



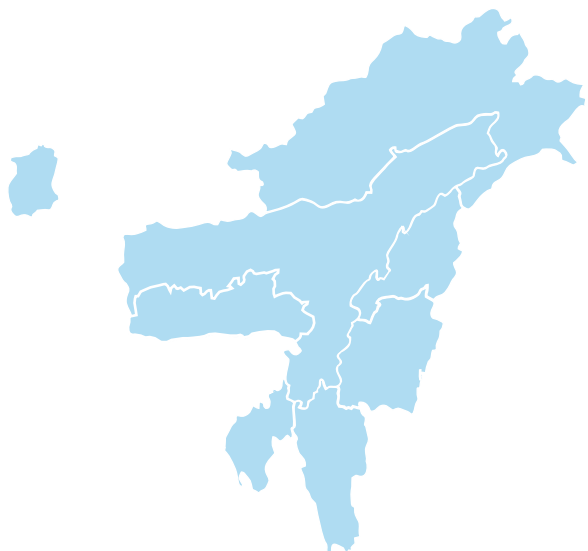
During the ERC meeting held on 22nd February 2018, a presentation was made by KPMG where they highlighted the “Salient Features of the Union Budget 2018-19” covering both the direct & indirect tax. The meeting was attended by 26 members from IEEMA, Eastern Region.

Technical training programme on “Modern & Digital Relays”

IEEMA Eastern Region Office organised a one day technical training programme on “Modern & Digital Relays” with CESC Ltd. The training was conducted by Mr. Gurav Viswas from Siemens and due to this training programme IEEMA has established a strong connection with CESC Ltd and further technical training programmes will be included in CESC’s training curriculum.



North Eastern States



Government Interaction:

- Held meetings with Honourable Power Minister of Assam Mr Pallab Lochan Das and apprised about IEEMA, various initiatives and activities of IEEMA, including ELECRAMA.

- Interaction and continuous update on all activities of IEEMA with senior Govt. officials Mr.. Pu H. Lalengmawia, Secretary (Power), & Mr.. Pu Zothan Khuma, secretary cum commissioner(industry) of Mizoram.
- Regular interaction with Mr. N.T Bhutia, Principal Chief Engineer & Secretary, Sikkim Energy &Power Department.
- Held meetings with Chief Secretary of Assam Mr. Vinod Kumar Pipersenia to discuss about various activities of IEEMA and ELECRAMA and how IEEMA is actively involved with Ministry of Power, Ministry of Commerce, Ministry of Defence
- Actively interacted with Principal Secretary Energy Mr M.S Rao of Meghalaya & Additional Chief Secretary Industry Mr P. W Ingty.
- Met Principal Secretary Energy of Assam Mr Jishnu Baruah, Mr Naba Kumar Das Chariman of Assam Electricity Regulatory Commission, Mr. A. N DEV Choudhury Joint Director(Engineering), Mr Gunajit Sama Deputy Director (Engineering) and apprised about IEEMA, Commissioner of Industry Assam Mr

K.K Dwivedi and Mr. Mridul Kumar Das Deputy Secretary Industry of Assam to discuss about various issues concerning the power sector and how IEEMA is actively working for the electrical equipment industry in the country

Utility Interaction

- Held meetings with CMD Mr. Jishnu Baru, Assam Power Distribution Corporation Ltd., Mr. PURU Gupta, Assam Power Generation Corporation Ltd Mrs. Kalyani Baruah, MD, Assam Electricity Grid Corporation Ltd Mr Satyendra Nath Kalita and invited them for ELECRAMA and also discussed about IEEMA Training program for utility Engineers.
- Held meetings with CGM(SLDC) MD. Zakir Ahmed, GM(HQ) Mr Amitabh Choudhury, GM Mr. Khaninda Narayan Adhikary, GM Mr. Deepankar Deka, GM(P&E) Mr. Paban Medhi and a host of DGM rank officials of the department Assam Electricity Grid Corporation Limited and informed about various initiatives of IEEMA & time to time support for different activities of IEEMA as and when required.
- Held several round of meetings with Senior Officials from Assam Power Distribution, Utility Engineers, Directors of Distribution, Generation, Transmission of Meghalaya, to inform about different programs, activities, conferences of IEEMA.

Member Interaction:

- Regular interaction was done with M/S Prag Electrical and NTL Steel

Non-Member Interaction:

- Visited various non members from different segment of Electrical Industry manufacturer A.K Engineering, Maklik Industrues, Kamakhya Transformer, N.K Power, Winpower, Power Maker, Pragyptish Transformer & met the proprietor or senior officials & apprised them about IEEMA, its various activities.
- Visited Electrical Consultant of Assam-Power Engineers, Kalita Electricals, North East Electrical, Fabcon Engineers, Win Power, N.E Associates, D&D Engineering, S.K Engineering ,Associated Control Panels Pvt.. Ltd, Techno trade, Assam Electricals, Ankit Electricals, Goswami & Associates, Transline Power Service, Assam Carbon Products, High Tension Electricals, Ankit Electricals, Mega Infra Energy Pvt Ltd, D.S Systems Pvt LTD

and briefed about IEEMA

- Visited Renewable Energy companies & dealers - Green Tech Systems, North East Agency Pvt LTD, Nutech Commercial ,Pragma Energy Pvt. Ltd, Better Power Services Pvt. Ltd, Ecopack, Enrax Green Energy Pvt LTD, Hawelia Realators, Sarthak Service, Shakti Trans Infra, Pragma Energy Pvt. Ltd and apprised them about IEEMA and its initiative programs also briefed them about Renewable Energy Pavilion at ELECRAMA.
- Visited Various Architectural firms & Civil Consultant firms in Assam and apprised them about IEEMA, its various divisions, activities & conference and also apprised about ELECRAMA- Amaze Group, Designers Guild, Faws Design, Simplex Architecture, Gandiva & Associates, Apex Arch, Times Architect, Arc, Dream Space, Ekistics, Stem 7, Creative Design Studios, Avant Garde, Golden Bricks, Manash Kagti & associates ,Adobe RAGIONE, Green Arch, Brahmaputra Consortium Ltd, Kedia Architecture & design, Designers & consultants, Pankaj Phukan & Associates, Constellation, Ace Consultant, PMS Design Creation, Kamakhya Engineering Solution, Sharpez, Technovation Engineering Services, Adharsheela Construction, MKK Consulting Pv Ltd, Solutus Consulting Engineers Pvt LTD

Others:

- Met Principal and HOD Electrical of Assam Engineering College, Royal Global Engineering, Girijananda Institute of Technology and had discussion with them to actively participate in various IEEMA Conferences, seminars and other activities.



Uttar Pradesh & Uttarakhand



Members Interaction with Administration & Utilities



Meeting with Mr. Yogi Adityanath, Hon'ble Chief Minister, Uttar Pradesh

Meetings were held with Chief Minister Mr. Yogi Adityanath, Mr. Shrikant Sharma, Hon'ble Minister for Energy and Mr. Satish Mahana, Hon'ble Minister of Industrial Development. These meetings were attended by Mr. Shreegopal Kabra, President IEEMA, Mr. Vijay Karia, Chairman OC ELECRAMA-2018, Mr. Vishnu Agarwal, Ex- President, IEEMA, Mr. Sunil Misra, Director General, IEEMA and others. Many rounds of meetings were held with Chief Secretary Mr. Rajive Kumar IAS, Dr Anoop Ch. Pandey IAS IIDC, Mr. Avneesh Awasthi IAS P. Secy Tourism, Mr. Alok Sinha IAS P. Secy. Industries.

Meetings were also held with Mr. Alok Kumar IAS Chairman UPPCL, CMD Transmission Mr. K Rizwi IAS & subsequently MD Transmission Mr. A Gupta IAS.

Interaction with Govt Depts.

UPERC

Various meetings were held with Chairman UPERC, Mr DD Verma to discuss issues concerning the power sector



Meeting with Mr. Shrikant Sharma Hon'ble Minister for Energy

UPPCL

Interactions were held with Mr Alok Kumar IAS, Chairman UPPCL He was updated about events and conferences of IEEMA. There were regular interactions with CMD Transmission and Generation Mr K Rizwi and subsequently with MD Transmission & Generation Mr A Gupta IAS.

NEDA

Regular interaction with Director NEDA continues. There seems to be increasing interests in IEEMA's activities.

ELECTRICALS SAFETY DIRECTORATE

Interaction has taken place with Director Electrical Safety. Interests have been shown by them in IEEMA's activities.

Railways

Interaction with senior RDSO officials like DG, PEDs, EDs and Directors happens on monthly basis. There is an increased interests and participation from them in IEEMA's events and other activities.

ELECRAMA

For the first time three senior most officials of SEB i.e. Chairman, MD UPPCL and MD Transmission & Generation visited ELECRAMA. There was a large contingent of officials from railways including PEDs who visited ELECRAMA.



Meeting with Mr. Alok Kumar, IAS, Chairman UPPCL

Rajasthan



Preview of ELECRAMA 2018 on 16th February in Jaipur

Hundreds of Industry members, Utility heads, Engineers, Electrical Contractors participated in a preview roadshow of ELECRAMA 2018 organized by IEEMA at Holiday Inn in Jaipur City on 16th February on Friday.

The guests received a welcome note from Mr. Anil Saboo, Vice Chairman ELECRAMA 2018. He stressed on importance of ELECRAMA 2018 in reshaping the energy sector in the country.

Mr. Vijay Karia, Chairman ELECRAMA 2018 wholeheartedly welcomed and thanked the stakeholders for making preview roadshow successful and he defined participation of Mr. Pushpendra Singh Minister of State (Energy) who participated as a Chief Guest as a remarkable development.

Mr. Harish Aggarwal & Mr. R K Chugh, both the Vice President's shared their overall experience working with IEEMA and described it as a catalyst for developing industries and power sector in the country.

Mr. Shreegopal Kabra, President of IEEMA shared the vision document with all stakeholders and explained the future of IEEMA with an aim to boost domestic electrical equipment manufacturing in the country and to make industries self-reliable and competitive.

Executive Council Member IEEMA from Jaipur, Mr. J K Agarwal thanked all the stakeholders and the Minister of Energy for State for making the preview roadshow successful.

Interaction with Non Members

Interacted on regular basis with few of the non- members related to electrical industry-manufacturer of different

electrical equipment, EPC Contractors and update them the various activities and development work of IEEMA from time to time. Also keep informing them about various initiatives of IEEMA with MOP, DHI, and Ministry of commerce and apprising them about the latest policies taken by Government of India. These non-members find the information to be very informative.

Addition of New Members:

Added 6 new members:

- Sudarshan Transformers Pvt. Ltd -Jaipur, The said firm is into manufacturing of Distribution transformers and Power transformers.
- Dusad Electricals-Jaipur-They are into manufacturing of power and distribution transformers, LT Panels, Switchgears, control Panels, Transmission line tower and isolators.
- ICI Transformers-Jaipur- They are into manufacturing of Power and distribution transformers
- Gram Power India Pvt. Ltd – Jaipur, They are into Manufacturing of Meters and its equipment.
- Magni tech speciality cables Pvt. Ltd –Jaipur, They are into Manufacturing of cables and its products.
- United Transformers -Jaipur : They are into manufacturing of Power and distribution transformers

Delegate Participation in IEEMA Events:

- MD-JVVNL Mr. A K Bohra participated as a speaker in Metering India 2017 along with 4 Paid delegates.
- 32 Engineers from all utilities participated in DURC in ELECRAMA 2018.
- 4 VIPs have attended ELECRAMA 2018 Viz :
 - CMD Discoms – Mr. Shrimat Pandey (Retd-IAS)
 - MD-JVVNL – Mr. R G Gupta
 - Chairman RERC –Mr. Vishvanath Hiremath



Preview of ELECRAMA 2018, Jaipur

- MD-AVVNL- Mr. B M Bhamu

Interaction with Other Associations

Interacted on regular basis with few associations like VKI Association, Rajasthan Solar Association, CII, Jhotwara Industry association for various IEEMA events , workshops and data collection.

Government Interaction

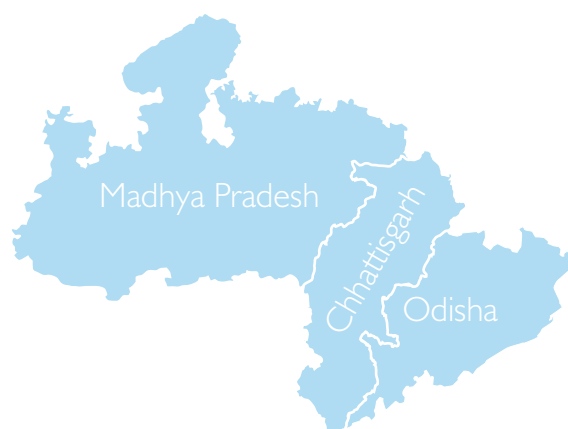
- Meeting with Mr. Pushpendra Singh –Minister of energy –Rajasthan on 8th February 2018 inviting him as chief guest for the Preview of ELECRAMA 2018 in Jaipur.
- Meeting with – Pr. Secretary Energy, CMD Discoms and RVPN Sh. Sanjay Malhotra 9th February 2017 –invitation for participation as Guest of Honor the Preview of ELECRAMA 2018 in Jaipur and have met him on Regular basis for IEEMA activities and events.
- Meeting with –CMD Rajasthan Discoms –Mr. Shreemat Pandey- on 9th February 2018 –Invitation for participation as Guest of Honor the Preview of ELECRAMA 2018 in Jaipur and have met him on regular basis for other IEEMA activities and conferences.
- Meeting with MD JVVNL on 6th February for Invitation for the Preview of ELECRAMA 2018 in Jaipur .And have met him on regular basis for other IEEMA activities.
- Meeting with Director (Technical) JVVNL for IEEMA activities and events.
- Meeting with Chief engineer (MM) ,SE (MM) ,Xen(MM),Chief Accounts Officer, SE (TW) , Add. Chief Engineer (M&P) for PV calculator promotion and other IEEMA activities.
- Meeting with MD-JVVNL-for taking confirmation as a speaker in Metering India 2017.
- Networking with Govt. Utilities viz Jaipur Metro, DISCOMS, TRANSCOS, GENCOS, RERC, RRECL, REC REG. OFFICE, Pollution control board , BIS and other govt utilities and apprised them about IEEMA and its activities.

Other Activities

- After various follow up with members/non-members by secretariat 36 stalls were booked in ELECRAMA 2018 from this region.
- Participation of delegates from State utilities and members from Rajasthan in all IEEMA conferences and events.
- More than 5 lacs of membership fee outstanding recovered.

- PVC subscribed by 6 companies for 9 products.
- Organized ELECRAMA OC meeting at Jaipur on 16th Feb 2018 at Radisson Blu .
- Organized ETech Next OC meeting at Hotel Clarion Bella casa on 17th Feb 2018 in Jaipur.

Odisha, Chhattisgarh, Madhya Pradesh



- Meetings were held with Mr Hemant Sharma, IAS, CMD, OPTCL, Mr H. Sharma IAS, secretary, Energy and Mr. Srikant Nayak, Special Secretary, Energy, Government of Odisha to discuss about participation in Metering India.
- Meeting with Mr Partha Sarathi Patra, SRGM, CPC and Mr. Panigrahi, AGM, Transmission division for details on Distribution Transformer (DT) procured by his board under DDGJY, IPDS,EGGVY, RAPDRPS Scheme.
- Visited Essar Power, and met some EPC contracts of PPL and VP of Essar, GM of PPL and discussed about the IEEMA activities.



- Meeting with New Minister of Energy Government of Odisha, Mr. Prafulla Mallik, and P. S Mr Behera to discuss about IEEMA activities.
- Visited OERC office to meet the Member chairman Mr. A.K. Das, Mr. K.L Panda, Secretary discuss about IEEMA activities.
- Met OSD to Chief Secretary, Special secretary Energy, Addl. Secretary Energy, Special Secretary Commerce and Transport Mr. Manoj Mishra, IRTS and discussed about activities of IEEMA.
- Meeting with Mr. Manoj Das, Divisional Officer and Mr. Subrat Ku Mishra Sr. GM HR, CESU discuss about PVC Calculator.
- On 26th July, 2017 Met Mr. A.K.Mishra Director, OHPC and received the nomination for attending Make In India and its Level Playing conclave.
- On 3rd Aug 2017 signed MoU with SEL for PSSC

Meeting with Ministers

- Meeting was held with the Hon'ble Minister Urban, Mr Puspendu Sing Deo, and Mr. Rabindra Sethi, PS Minister of Energy to discuss issues concerning the power industry and nominating delegates for Metering India.

- Meeting was held with Hon'ble Minister MSME Mr Prafulla Samal in associates with Laghu Udyog Bharati.

Meeting with other officials in the state:-

- Various meetings were held with Special secretary Commissioner Commerce and Transport department Mr. Manoj kumar Mishra, IRTS (Rail coordination), Director of MSME, Director NSIC, MoNRE and Member State Pollution Control Board

Meeting with Members and Non Members in the State:

Meetings were held with companies like Velcro, Jagabandhu Enterprises, Blu Engineers, Alfa Transformer Ltd. Maa Tarini Transformer and Konark Transformers Pvt. Ltd for discussing signing of MoU, membership dues and promotion of various programmes of IEEMA

Interaction with Technical Institute for Institutional Memberships

- Held meetings with Nilachal Polytechnics and ABIT to discuss about IEEMA Journal and Membership dues.

New Member Enrolment

- Two new companies enrolled in IEEMA membership in the year 2017-2018



Delegation from Finland at IEEMA New Delhi office

IEEMA Journal

IEEMA Journal has entered into 37th year and continues to furnish its readers with informative and researched articles from experts of the power industry. The year 2017-18 saw the digitization of IEEMA Journal where we provided our readers the digital version of the magazine. In the year 2017-18 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



Compilation and circulation of Statistical data

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. Understanding the importance of data compilation, divisions regularly review product segment coverage based on importance. LV Switchgear, Lift division and Transmission Line Accessories & Hardware committee are in process of data collection & compilation.

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 followed provides confidence to members since data submission is voluntary.

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.

EXIM data from DGCIS, Ministry of Commerce is shared to members periodically. It is analyzed for trade remedial measures.

Circulation of Prices and indices

In this year, PV clauses for Aerial Bunch & EHV Cables were evolved and made operational after deliberations among division members.

In last year, base of wholesale price index numbers (WPIS) published by Economic Advisor, Ministry of commerce were revised to 2011-12 and most of the old WPIs were changed. We had identified closest new WPIs in consultation with concerned divisions and recommended to use new base WPIs with necessary clarifications. Due to this, PV clause for Civil Works & Erection and Insulators were revised.

During the fiscal, there had been frequent volatility in the raw material prices especially of metals. IEEMA had taken utmost care to reflect trend of prices closer to the market reality by following a robust process.

Now, 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.

ELROMA 2017

IEEMA Rotating Machines Division organized the 9th edition of ELROMA on 14th and 15th September 2017 at Hotel Lalit, Mumbai with the theme “**Emerging Technologies in Electrical Rotating Machine's and Drives**”.



From L to R (Mr Anil Naik, Business Head- Bharat Bijlee Ltd, Mr Swapnil Kaushik, Managing Director- WEG India, Mr Ashok Kulkarni, Chairman- ELROMA 2017, Dr Faruk Kazi, Eminent Professor- VJTI, Mr D K Thakur, Executive Director- BHEL, Dr R Chidambaram, Principal Scientific Advisor to Government of India and Chairman- SAC Committee, Mr Sanjeev Sardana, President- IEEMA, Mr J Pande, Sr Director- IEEMA, Mr Dinesh Nimje, Chairman- Technical Committee- ELROMA 2017)

The Conference was inaugurated by Dr R Chidambaram, Principal Scientific Advisor to Government of India and Chairman- SAC Committee. Key note address was delivered by Mr D K Thakur, Executive Director- BHEL and Dr Faruk Kazi, Eminent Professor- VJTI. Inaugural address was given by Mr Sanjeev Sardana, President- IEEMA.

Welcoming the 300 plus participants from over 100 organizations, Mr Ashok Kulkarni, Chairman of the Organizing Committee informed the delegates that 35 out of 95 papers received had been selected for presentation including 5 International papers and 5 Academia Papers. Committee members worked hard to encourage students write the papers for the conference.

IEEMA President Mr Sanjeev Sardana in the Inaugural address summarized the state of Electrical Industry in India and the role of Electrical motors, the opportunities and the catalytic role of IEEMA in the power sector.

Dr Chidambaram in the Inaugural speech highlighted the need for Industry Academia Collaboration to take the Industry and Academia to next level of development. Dr Chidambaram also talked about energy efficiency and global benefits which nations can yield from it. Mr Thakur, Key note speaker laid stress on the motors used in traction systems whereas Dr Kazi talked about how the newer development in house labs can help Industry Academia grow together.

Vote of thanks was delivered by Mr Anil Naik. Inaugural Session is convened by Mr Swapnil Kaushik, M.D- WEG India.

Held every four years, ELROMA is a forum for sharing current trends in Rotating Machines and Drives Technology. The Objective of ELROMA 2017 is to provide an interdisciplinary platform to present and discuss the most recent innovations, trends and concerns as well as practical challenges encountered and solution adopted in the fields of Rotating Machines and Drives.

The Papers were grouped into 6 Sessions namely:

- 1 **Case Studies** chaired by Mr Satyajit Chattopadhyay, Senior Advisor, WEG
- 2 **New Materials-** Application and Development chaired by Mr Roger Wicks, Chair- IEC TC I I2
- 3 **Poster Session** chaired by Dr K K Puranik, Ex-BHEL,
- 4 **Simulation Techniques** chaired by Mr R S Barve, Consultant
- 5 **Power Electronics and Drives** chaired by Dr Kishor Chatterjee – IIT Bombay
- 6 **Emerging Technologies** chaired by Mr. Sunil Naik, TMEIC India

Conference Key Highlights:

- More than 300 + participants from over 100 + organizations.
- Stakeholders involves Manufactures, Regulators, testing and measuring Labs, Research institutes, Consultants, Government Officials, R&D, Academia etc.
- Over 35 papers presented over two days including 5 International papers.
- Three product display stalls showcasing advance solutions and products have been built inside the conference hall to give a real time experience to all the stakeholders.



ELROMA Organizing and Technical Committee members along with Authors

Glimpses of ELROMA 2017



ELECRAMA 2018



- **Business queries worth Rs 6,500 crore generated during Buyer Seller Meeting**
- **1,200 exhibitors including**
- **300 foreign companies**
- **Participation from 120 countries**
- **2,98,000 footfalls in five days at the world's largest confluence of everything electric**

Breaking all past traditions, boundaries and expectations ELECRAMA 2018 became the biggest edition in the chapter of ELECRAMA. The mega event was graced by the presence of Hon'ble Vice President of India, Mr. M Venkaiah Naidu; Union Minister of Commerce and Industry, Mr. Suresh Prabhu; and eminent industry veterans who spoke pearls of wisdom to encourage the

industry to look at renewable and smart solutions for the electrical sector.

Organised by IEEMA, the 13th edition of ELECRAMA ensured the best infrastructure and facilities for the exhibitors and visitors. The icing on the cake was the presence of Hon'ble Vice President of India, M Venkaiah Naidu who inaugurated the 13th edition of ELECRAMA at India Expo Mart, Greater Noida held between March 10-14, 2018.

ELECRAMA Start Up awards: Applauding the Innovators



Innovations and startups are terms that can be used interchangeably. The young entrepreneurs seem to be armed with a secret weapon to succeed. With the ability to tackle issues with a fresh perspective and arrive at solutions that are impossible to occur to others, it's fitting that they should be rewarded. To this end, ELECRAMA 2018 extended its platform on its second day to startups and their innovations and awarded the worthy.





eTechNxt

eTechNxt as a concept was introduced for the first time at ELECRAMA. The purpose of eTechNxt was to showcase new technologies which are going to impact the electricity and power sector in a big way. These technologies are already brewing up and going to be the next big thing.



There were four major tracks at eTechNxt: digital delivery of power, industrial internet of things (IoT), energy storage and electric vehicles. Various stakeholders demonstrated what they have in these areas, and engage with users and influencers to explore the demand and what are those demand drivers.

World Utility Summit 2018

World Utility Summit 2018 witnessed some of the finest talks and discussions from national and international speakers explain how smart generation can be done



consistently for decades to come. The theme of WUS was "Utilities of Utilities", featured intense deliberations over electricity, food and water security; regulatory framework; and the challenge of keeping abreast with technologies. WUS 2018 was spread over three days from March 11-13. The idea was to bring personnel from



electricity, water and gas utilities to discuss with Industries, Consultants, Service Providers, Researchers and Regulators the ways to develop optimal solutions, technology & products, in order to enhance their performance.

RE – Pavilion: Towards a Sustainable Future

As India gears up to meet its energy demand on its own, renewable energy is slated to play an important role. ELECRAMA 2018, the flagship platform of the Indian Electrical Industry, features a full-fledged Renewable Energy Pavilion that offers access to new opportunities and ecosystems. For the first time, the entire renewable energy

Rail Urja

Indian Railways' mega electrification plan thrust opportunities for Electrical Industry

Railways, the largest transportation network in the country, has embarked on a mega electrification plan, thus opening newer avenues for the Indian Electrical Industry and EPC contractors.

Indian Railways is one of the biggest customer of the Indian Electrical Industry in the country. It has now embarked on a mega electrification plan to meet its growth targets and also its commitment to increase efficiencies and embrace renewable energy in a big way. The national carrier has prepared an action plan to electrify 38,000 route kilometres in five years, incurring an expenditure of ₹ 32,591 crore.

ENGINEER INFINITE

An International Engineering Conference 'ENGINEER INFINITE' was been jointly organized by IEEE Delhi Section and IEEE UP Section along with Indian Electrical and Electronics Manufacturers' Association (IEEMA) on March 13-14 running parallel to ELECRAMA 2018. The prime objective of the conference was to connect the electrical and electronics industries with the research, academia, and bring forth new technologies / products

and markets for the times to come. The theme of the conference is "Showcase of Technology Next" focused on the following four tracks - Power Electronics & Digital Transformation of Power Delivery, Energy Storage Systems and Solutions, IoT, AI and Electricity and e-Transportation. The conference offered an opportunity to the researchers, academicians, scientists and professional engineers to present their work, publish their results, exchange ideas and network for scientific and industrial collaborations in an international forum.



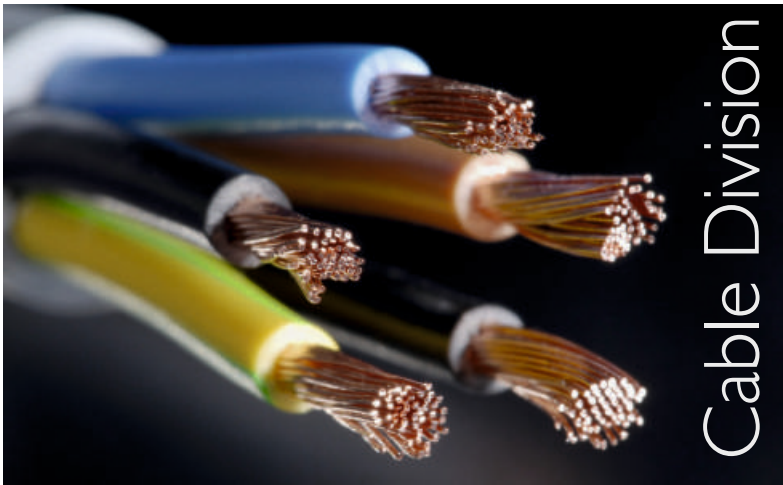
ChangeXchange 2018

The fourth Reverse Buyer-Seller Meet, organized concurrently with ELECRAMA 2018, has turned out to be a boon for Indian electrical equipment MSMEs as they garner favourable response from the international buyers of 60 countries.



Record breaks at ELECRAMA 2018

The 13th edition of ELECRAMA recorded more than 2,98,000 footfalls and over 1,200 exhibitors showcased their products and services at the biggest showcase of electrical and electronics manufacturers. Business queries of more than 1 billion USD were estimated at the event being held at India Expo Mart in Greater Noida from March 10 to 14. Overall the event was an experience to all exhibitors, visitors, dignitaries who visited the mega show and above all the stakeholders of the power sector. The benchmark set by this event will create a feeling of curiosity of what next in ELECRAMA 2020.



- Industry Size : INR 50000 Crores estimated
- Exports : INR 1901 Crores (Upto Dec 2017)
- Imports : INR 644 Crores (Upto Dec 2017)
- Number of Members in the Division : 115 Organization
- Division Meetings : 20th April 2017 at Mumbai
27th June 2017 at Vadodara
24th October 2017 at Mumbai
13th December 2017 at New Delhi
30th January 2018 at New Delhi
- Number of Division meetings : 05 (Five) excluding 3 Technical Committee and 3 CableWire Committee meetings
- Average Attendance : 16 (Seventeen)

State of Industry:

Driven by Government Initiatives, new schemes and Innovations in the Industry Wires and Cables industry in the India, which is largely driven by demand from retail segment and investment level of government, registered a good growth during FY 2017-2018. Each segment in the wires and cables industry such as power cables, control cables, communication cables and others is grown fairly well. The estimated growth is at a CAGR of 20 percent. Petrochemicals and Metro Rail Projects are the major growth drivers for various types of cable especially FS Cables. Due to thrust on renewable energy generation, Solar cable is growing consistently. Instrumentation cables have also witnessed robust growth of more than 50%, although MV & HV Cables have not shown a much anticipated growth due to delay in tenders finalization by Utilities; outlook for this segment is good in the current fiscal FY 2017-18.

The market for cables and wires in India faces challenges in terms of cheaper Chinese imports, readily available substitutes and others though manages to do well.

Technological advancements and product innovations across different segments as well as competitive pressures have been significantly changing the market. The industry have started focused on new type of Communication and Fire cables.

Objectives / Key discussion points & achievements

- PVC Formula for AB, XLPE and EHV Cables- Proposed PV formula for LT and HT Aerial Bunch Cables is implemented wef from July 2017.

Members also deliberated and discussed regarding the PV formula for EHV cable, which was worked out with technical committee and is implemented from 1st November 2017. Some of the inputs have been received from various stakeholders which will be implemented in due course.

- Impact of GST on Cables and Wires industry- “Different rates of GST for products will result into huge revenue leakage and subjecting the entire industry at 28 percent will shoot up the capital cost for the industries as well as end products. Higher rate of 28% GST, announced on some electrical products including Cables and Wires. IEEMA represented the matter to the Government, both directly to the Ministry of Finance and indirectly through other concerned Ministries; requesting the GST Council to lower the GST rate on these products to 18%, giving suitable justifications product wise. IEEMA also have had several meetings with Government authorities, including Dr. Hasmukh Adhia, Revenue Secretary.

Through concerted efforts of IEEMA Secretariat and members, GST rates on most of these electrical products were brought down from 28 per cent to 18 per cent by the GST Council including Cables, Industrial Transformers etc.

- Type Test Validity for Cables - The matter is discussed in details and members opined that the validity should ideally be minimum 10 years. It was felt that in some of the parameters Re-testing is required, while some of the parameters can be skipped. The subject is still under discussion and yet to be finalized.



- CableWire 2018 Conference- CableWire 2018 is scheduled for 23rd and 24th August 2018 at Hotel Le-Meridian, New Delhi. The Organizing committee formed is led by Mr Shashi Amin from Polycab and Technical Committee is led by Mr Yogesh Tiwari from KEC International

Stakeholders including manufacturers, Raw Material suppliers, testing labs, Utilities have shown good interest and the Call for papers have received overwhelming result. Regular timely interactions of the committee members took place through webinar and Physical Meetings.

Representations made:

1. GST on Cables and Wires: Representation was

made to Ministry of Finance and Ministry of Power to lower the rates of GST on Cables and Wires to 18 percent from 28 percent. Through concerted efforts of IEEMA Secretariat and members, GST rates on were brought down from 28 per cent to 18 per cent by the GST Council.

2. High Marking Fee- Matter of unreasonable hike in fee and the probable impact of the hike on the end consumers is discussed with the BIS concerned department. BIS after the discussion and the representation, assures that the same will be relooked in details and the will be rectified based on the comparative analysis of last year vis a vis fee hike.

CAPACITOR Division



- Industry Size: INR 560 Crores
- Exports: INR 230 Crores (estimated)
- Imports: INR 113 Crores (estimated, including Project Imports)
- Number of Members in the Division: 40 organizations (including Capacitor Manufacturers, manufacturers of accessories & component, EPC Contractors and others)

Division Meetings: 11.07.2017

13.10.2017

08.12.2017

02.02.2018

Number of Division

meetings: 04 (Four)

Average Attendance: 12 (Twelve)

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

IEEMA has 20 product divisions, and under each division member manufacturers meet once in a quarter and discuss the State of Industry, issues concerned with Indian or International standards (BIS/IEC), any representation to be made to government or any other stakeholder, discuss aspects of International Conferences as and when organised, providing Industry inputs whenever required.

Division was actively involved in following activities during FY 2017-18

- 1.0 Increasing awareness amongst various stake holders on various aspects of power quality and benefits of power conditioning
- 2.0 Gazette Notification issued by Ministry of Commerce, DIPP on Quality Control Order for three types of Electrical Capacitors
- 3.0 Formulating standards for products and systems
 - I) Increasing awareness amongst various stake holders on various aspects of power quality and benefits of power conditioning

III effects of harmonics are well recognized and understood. However, actual implementation is still

lagging in India. General lack of awareness amongst Utilities, Regulatory bodies, Government agencies, Electrical End Users and Consultants is still a challenge. While situation has changed in last 10-12 years, there is a lot to be done in this direction. Harmonics is a high frequency current which travels over & above the useful true RMS current. It causes overheating which results into accelerated derating of all the components & equipment which fall in the path of Harmonic current. In order to avoid any disruption in operations, quite often T&D companies & Users tend to de-rate their equipment. It prevents them from optimal utilization of the installed capacity.

Division is working on the activity to create white paper on Power Quality for creating awareness amongst all stakeholders on the importance of quality power. This will help in enabling policies for accelerated addition of Harmonic Mitigation solutions (viz Detuned Reactors & Capacitors, Passive Filters and Active Harmonic Filters). Apart from this, it will also pave way for power conditioning devices. Through these efforts, it is expected that usage of Harmonic Mitigation & Power Conditioning equipment will increase by Utilities as well as End customers which could be expected to go a long way in growing the size of this Industry.

Division members had two meetings with Director Operations MSEDCL to discuss on the subject and to mention that IEEMA is always present to help Utilities in taking this activity ahead. A meeting was also held with Member Commission and Director Technical MERC. Division was advised to contact officials in CERC and make a presentation in forum of regulators meeting held every month. A meeting was held with Member CERC and his team where division explained the requirements to penalize harmonics and work on Power Quality. CERC welcomed IEEMA to work jointly and suggested to provide inputs on few subjects to work further.

- 2) Gazette Notification issued by Ministry of Commerce, DIPP on Quality Control Order for three types of Electrical Capacitors

Ministry of Commerce, DIPP issued Gazette Notification on three types of Capacitors which was to be implemented from 1st February 2018. Members worked rigorously and held several meetings with DIPP, BIS, CPRI to work out the methodology as how the implementation could be made effective from the said date. All the members unanimously agreed to support this Quality Control Order, as this is expected to improve overall quality being manufactured and sold in Indian market. However, due to lack of test facilities at BIS approved labs like CPRI, ERDA, Hi physics the concerns were created which division tried to raise to various stakeholders and solve the issues.

- 3) Formulating standards for products and systems

IEEMA Capacitor division actively participates in Electro technical Committee (ETD 29) meetings of BIS in

formulation of standards which is a step towards raising the industry standards. IEEMA representatives are member of all Government Committees including BIS. Chairman, IEEMA Capacitor division is a principal member on BIS ET 29 (committee on power Capacitors and its related products) with IEEMA secretariat as an Alternate member.

Formulation & roll out standard like IS 16636 is one such example of close coordination amongst BIS, Utilities, Test labs & Manufacturers. It has helped to obtain long pending request from the Industry to get a unified Indian version of the standard. It is expected to help End users to get rid of component failures and heating issues which are frequently observed in the APFC panels which are non-compliant to standards.

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 analyze 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.

While size of Capacitor Industry is very small (less than 2%) of the total Electrical Industry in India, future of the Industry is quite promising. Industry is observing unprecedented growth through products which cannot be classified as Capacitors. Allied products like Reactors, Active Harmonic Filters and other Static VAR compensators are supporting growth of the Industry.



CONDUCTOR Division



- Industry Size : INR 8100 Crores (estimated)
- Exports : INR 1820 Crores (estimated)
- Imports : INR 525 Crores (estimated)
- Number of Members in the Division : 64 organizations
- Division Meetings: 29th June 2017, New Delhi
7th September 2017, New Delhi
18th December 2017, New Delhi
16th February 2018, New Delhi
- Number of Division meetings: 04 (Four)
- Average Attendance : 13 (Thirteen)

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

• Concerns on Chapter-98

Division informed about the anomaly exist in procuring Conductors as finished good under Chapter-98, where the basic import duty is 5%. Imports of electrical equipment under Chapter 98 is a clear disadvantage to the domestic industry.

Division represented the matter to the concerned authorities, requesting for a decrease in custom duty of basic raw material, primary Aluminium metal to 5% from the existing rate of 7.5% under Chapter 76 of the Customs Tariff Act.

• Sub-Committee of Hardware & Accessories

A Sub-committee was constituted in 2015 for independently discussing issues related to Hardware and Accessory segment. Sub-committee met on a regular intervals and discussed several issues of the Hardware and Accessory industry. Members felt a need to assess the overall industry size and started the process of collecting production data from the members.

Sub-committee has a Technical Committee to work on activities like guiding secretariat on technical issues/queries, working with CPRI on testing gaps, Standardization matters with BIS, review and presentation on Key Technical Parameters, Representation at IEC – TC etc.

• Activities under BIS ET-37 Committee

The last meeting of ET-37 was convened on 12th April 2017 under the Chairmanship of Mr. Anish Anand, Powergrid and the minutes were circulated.

Few important points discussed during the ET-37 meeting:

- Three Sub-committees were formed under ET-37 for timely completion of standardisation activities:
 - Conductors
 - Hardware and Accessories
 - Powerline design, construction and maintenance
- In each sub-committee, the convener will be from Govt./Utility and co-convener will be from manufacturer's side. Activities will be facilitated through frequent meeting and review of progress.
- On Conductor standards IS 398 part 1, 2, 4, 5, the draft is almost ready to release. The major changes were done on wire diameter and tolerances (up to 3 mm diameter, tolerance is +/- 0.03 mm and above 3 mm diameter the tolerance is +/- 0.5 % (rounding off applicable as per IS -2).
- Other Conductors IS 398- Part 6, 7, 8, 9 and 10 are in draft stage and will be finalised in next meeting.

• GST implementation and its effect on Conductors

IEEMA was concerned about higher rate of 28% GST, announced on some electrical products. IEEMA represented the matter to the Government, both directly to the Ministry of Finance and indirectly through other concerned Ministries; requesting the GST Council to lower the GST rate on these products to 18%, giving



suitable justifications product wise.

IEEMA had several meetings with Government authorities. Through concerted efforts of IEEMA Secretariat and members, GST rates on most of the electrical items are 18% or below.

- **Interaction with CEA Senior officials**

Apart from meeting senior CEA officials from time to time, Division invited senior officials on 7th September 2017 and discussed several industry issues with them.

- **Discussion on Reverse Auction**

Division raised concerns faced by the industry due to Reverse Auction (RA). Matter deliberated in various other IEEMA Divisions along with Executive Council. Further, Division requested IEEMA Public Policy cell to represent this subject to the concerned authorities, requesting for weighted based Reverse Auction for Conductor procurement, instead of Price-based Reverse Auction.

- **Merchandise Exports from India Scheme (MEIS)**

Most of the 273 tariff lines of Indian electrical industry, except 14 tariff lines, are covered under Merchandise Exports from India Scheme (MEIS). IEEMA had represented to Directorate General of Foreign Trade, under Mid-Term Review of Foreign Trade Policy, to also include the left out tariff lines under MEIS. The current reward percentage allocated to these tariff lines are mostly 2%. IEEMA had represented to the Government to increase the reward percentage from 2% to 3% and 5%. IEEMA Public Policy Cell has requested TPM to suggest the recommendations for submission to the concerned authorities.

- **HTLS Conductor laboratory being set up at ERDA**

ERDA is establishing High Temperature Low Sag (HTLS) Conductor evaluation laboratory, at its Head Office in Vadodara, for type testing of these conductors as per PGCIL specifications/IEEE draft standard/ CIGRE documents/CEA guidelines. At

present, manufacturers of HTLS conductors in India are carrying out type testing of HTLS conductors at laboratories located outside India such as at Kinetrics Canada, SECRI China, SAG Germany etc., as no third party testing laboratory in the country has complete type test facilities.

- **Price Variation formula for AL59 Conductors**

Members felt the need to have a Price Variation Formula for AL59. Subsequently, a committee was formed to evolve a PV formula.

A Committee was constituted for the activities, which met and deliberated on several occasion and evolved a PV formula for AL59.

Further, the formula was widely circulated and has now been made applicable.

- **Discussion – Conference on Overhead Lines**

Secretariat informed members that IEEMA is planning to create a new technical conference on “Overhead lines”. This conference will cover products such as Conductors, Insulators and Hardware & Accessories, apart from TL Towers.

The Conference on Overhead Line will be held during first half of 2019.

- **Study on current FTA/PTAs**

Division desired to commission a study on current FTA/PTAs to analyse and suggest the industry's recommendation to the Govt. Accordingly, the Terms of reference was prepared and submitted to IEEMA Public Policy Cell for its commissioning.

TPM consultants was requested to provide their feedback on the same.

Representations were:

- Representation to concerned authorities on the issue on Advance Authorization Schemes & getting IGST Refund on Exports.
- Representation to concerned authorities requesting for consideration of Decrease in customs duty on import of primary Aluminium metal.
- Representation to concerned authorities requesting for equivalent benefits of Chapter-98





Distribution Transformers

- Industry Size : INR 7000 Crores (estimated)
- Exports : INR 1356 Crores (estimated)
- Imports : INR 413 Crores (estimated)
- Number of Organizations in the Division : 96 organizations.
- Division Meetings : 8th May 2017, Delhi
14th July 2017, Panchkula (Haryana)
10th November 2017, Delhi
2nd February 2018, Mumbai
- Number of Division meetings : 4 (Four)
- Average Attendance: 21 Nos.
- Divisional Events/ Conference : None

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

Electrical Transformer (Quality Control) Order 2015:

Electrical Transformer (Quality Control) Order issued by Department of Heavy Industries took almost two years to get streamlined, however the monitoring committee meeting happened only once.

IEEMA has been continuously informing members during the year to apply for the BIS license, since the Electrical

Transformer (Quality Control) Order does not allow for manufacturing, sale, stock etc. of any Distribution Transformers without valid BIS license.

Around 400 DT manufacturers across India have obtained the BIS license as per the Order effective w.e.f 1st of August 2016.

A need was felt that DHI must be informed to call a meeting soon as there is no-authority who is taking the accountability of the implementation of the Quality Control Order in true sense as still many manufacturers are supplying the transformer without BIS certification.

Presence of IEEMA DT Division in BIS ET-I6 Meetings:

- a) Designated Technical Committee Members for attending ET-I6 meetings

During the year Distribution Transformer division has been actively participating in the BIS ET-I6 committee, so that all technical points related to DTs are presented to BIS for consideration.

All the communication related to BIS ET-I6 meetings are informed to the members.

Extension of the Gazette Notification issued by MoP on BEE certification:

During the ET-I6 meeting held on 12th April 2017, it was agreed by BEE representative that any mandatory regulation being introduced must have an advance announcement of 2 years' time before it gets implemented. IEEMA has send representation to BEE for seeking extension on the implementation of the gazette for at least 2 years' time.

Non-Acceptance of ERDA certificates by Utilities.

DVNL, Agra has issued a circular to the Distribution Transformer manufacturers that that for DDUGJY/IPDS schemes of Govt. of India, manufacturers should obtain type test reports from CPRI for following rating viz. 16kVA, 25kVA, 63kVA, 100kVA, 5 MVA and 10 MVA.

IEEMA sent a representation to MD, DVNL for accepting the type test report of ERDA also, as both CPRI and ERDA are recognised NABL accredited laboratories



approved for transformer testing by Bureau of Indian Standards. Non-acceptance of type test report of ERDA would lead to a monopolistic situation.

Type Test Validity for Distribution Transformers:

IEEMA Power Transformer Division has prepared a background paper on the validity of the type Test certificates should be considered for 10 years' time.

Members suggested that for Distribution Transformer Division also the validity of type test should be for 10 years.

Testing facilities at Jaipur:

IEEMA informed that Transformer manufacturers are very keen to have a manufacturing facility at Jaipur, which can take care of the mandatory requirement of BIS for Distribution Transformers.

IEEMA DT Division members in past had a discussion with CSIR-CEERI on setting up a laboratory for testing of transformers.

Dr. S. A. Akbar, Chief Scientist & Head, CSIR-CEERI was invited for discussions during one of the DT Division meeting to have a wider discussion with the division members.

It was felt that there is a huge scope of testing is there in Jaipur as large chunk of BIS licensees are based in Jaipur and nearby areas. However the proposal did not worked out and it was dropped.

Delay in Testing by ERDA and CPRI:

IEEMA Members had raised the issue of delay of 2 to 3 months in testing both by ERDA and CPRI. The matter was highlighted with the testing agencies for expediting the testing procedures.

Mr. Alok Agarwal, Vice Chairman had informed that possible delay was happening because of Temperature rise test.

ERDA representative was advised to address the subject to the top management in ERDA for expediting the testing of Distribution Transformers.

Dual Certification issue of DTs to DIPP/Ministry of Commerce:

The matter of dual certification of Distribution Transformers was represented to Ministry of Commerce/DIPP, as Ease of doing business matter was looked by MoC. However, MOC has diverted the issue again to DHI and MoP.

Members suggested IEEMA to pursue the matter once again with DHI and MoP to take stock of the situation. IEEMA was advised to make an attempt to meet Power Minister also to address the issue.

CEA Monitoring Committee by CEA to discuss the issues of DTs:

IEEMA informed members that DT division had presented the issue of dual certification with CEA on 17th February 2017, which has resulted in formulation of a monitoring committee by CEA.

CEA has intended to discuss all issues in detail related to Distribution Transformers. The meeting was called and following organisations are made part of the committee including BEE, CPRI, BIS, ERDA, Tata Power Delhi, BESCOM, DGVCL, TANGEDCO etc.

Identification of areas/topics where training needs to be imparted for customers/ utilities:

Various product divisions have been advised to come up with proposals for imparting training to the utilities on aspects like Design, Manufacturing, Testing, Operation, Erection at Site, Testing at Site, Commissioning, Maintenance, Trouble shooting, Transformer failure Analysis and Preventive Actions, New Development in Transformer Technology etc.

Members were informed that few utilities like Haryana and Punjab Discoms has approached IEEMA for conducting a training program for their field officers.

Members agreed to extend their full support in organising such training program for the utilities.

Issues related to BEE:

Members discussed about the difficulties w.r.t BEE. It was also apprised by members that BEE is finding silly issues on the applications, and thereby the applications are put on hold.

IEEMA took up the issue with DG, BEE also on procedural difficulties. DG IEEMA met DG, BEE and all issues were addressed.

Discontinuation of Domestic AL prices w.e.f. January 2018:

Vice Chairman, IEEMA apprised members that most of the stakeholders including Utilities/Purchasing bodies have started using LME average Aluminium prices for Price Variation calculations, however few are still using domestic Aluminium prices.

Because of the frequent changes in domestic aluminum prices, it has caused volatility and posing difficulties for buyers; since domestic suppliers follow pricing based on LME price trend on ad-hoc basis.

To avoid such undesirable situations it was decided to discontinue domestic price of Aluminium from IEEMA PV circulars applicable for Distribution Transformers and TLA&H w.e.f. January 2018. Members agreed to the proposal & advised secretariat to issue a circular in this regard with clarity.

Circumvention of QCO on CRGO and formulation of Standards on laminations and Core of Distribution Transformers:

Department of Heavy Industries has called a stakeholders meeting on 10th October 2017 to discuss about the import of engineering goods/ value added products covering under chapter 84,85 & 87 of ITS under steel quality control order. To address the issue arising out of circumvention of the QCO by certain segments of user industry, the proposed amendment suggested by BIS to Ministry of Steel are intended to cover all downstream industry where steel is an important input raw material.

Ministry of Steel (MoS) during the meeting confirmed that following 3 products which will be brought under mandatory certification scheme of BIS, and subsequently amendment on the quality control orders shall be brought.

- a) Stainless Steel Pipes and Tubes
- b) Stampings/ Laminations/ Cores
- c) Steel Wires/ Strands/ Wire Ropes

Members from the division suggested the following:

- a) Minimum important price (MIP) for the built up core should be specified.
- b) To allow import of Prime CRGO only directly from the Mills or mill's authorized distributors/agents.
- c) To develop standard for Laminations/Core.

IEEMA informed that they had represented to DHI that such a blanket application of the provisions of Steel Quality Control Orders across all user industry segments will have far reaching ramifications, however suitable mechanism should be identified to address specific instances circumventing the QCO provisions, such as CRGO on case to case basis.

Clarification by REC on the advisory issued earlier to all PIA/SEBs:

IEEMA has represented REC Ltd. for providing clarifications on two specific issues:

- a) For issuing directives to all Project Implementing Agencies/CMDs/MDs of Discoms to accept the processors/Core cutters/laminations manufacturers for supplying prime quality CRGO for manufacturing of Transformers, only in such cases where complete traceability reports are provided.
- b) To clarify to State Utilities/Discoms as they were referring REC letter as an advisory to procure transformers with CRGO only, and not with Amorphous Metal Distribution Transformers.

After lot of persuasion, REC accepted IEEMA's request and had issued necessary directives to all Discoms/PIAs/SEBs.

Review of BIS Standards for Distribution related equipment - inputs from members.

CEA had come out with a circular whereby it was informed that Ministry of Power has desired for a comprehensive review of Indian Standards for distribution related equipment's. This exercise was to identify old obsolete standards, which may be removed, identification of the IS which need upgradation and preparation of new IS for those distribution related products which need standardization.

Organising Regional Workshop at states on key issues of Distribution Transformers like the seminar on Relationship of AT&C Losses and Transformer Failure for Rajasthan Utility.

Members were informed that IEEMA DT division organized a Training Program on Relationship of AT&C Losses and Transformer Failure on 31st January 2016 at Hotel Hilton, Jaipur for Rajasthan Discoms, which was attended by more than 100 Utility officials from Rajasthan Discoms. The same model can be adopted in other states also.

Chairman advised the secretariat to circulate the presentations/deliverables of the Jaipur workshop to all IEEMA State Head, so that such program could be organised there also. He advised state head to do such kind of programs while engaging members from that region.

The achievement of Jaipur workshop was that guarantee period was reduced from 5 years to 3 years' time.

Discussion on the recent accident of transformer burst at Shahpur, Rajasthan:

IEEMA informed members about the accident of Transformer burst in shahpur, Rajasthan. The accident has caused loss of human life and several casualties. Government of Rajasthan has ordered high level investigation on the cause of the accident.

Chairman also highlighted the fact that the transformers was not provided with the breather and breather pipe was sealed, which may be the cause of explosion. It was also informed that transformers was also not under overload condition.

Chairman informed such incidents are happening all across the country, however many such incidences are not reported. He also informed that FIR is going to be lodged against the transformer manufacturer by the Government/Discoms without finding the root cause problem, is a matter of serious concern to the industry.

Chairman informed members that President IEEMA is keen on the safety issue and has requested the division to prepare a white paper.

Discussion on white paper for DT Active repair.

International Copper Association India apprised members on the presentation shared on 'Active Repair of



Distribution Transformers for Technical loss reduction and improving Energy Efficiency and Reliability.

Inputs were sought from members regarding the proposal to actively reduce high technical losses in the DTs through scalable and techno-commercially viable Cu-based winding compensation method.

The proposal talks about for doing pilot which can be proposed to few DISCOMs by members from the DT division.

Recertification issue related to BIS:

IEEMA informed that few members has informed about the issues/problem on renewal of BIS license which is taking a long time. The renewal application are on pending status for more than 2 months which is resulting in non-acceptance of the transformers by the Discoms.

Mr. Alok Agarwal also informed that BIS local offices are understaffed and this is resulting in delay in approvals/renewal of the license. He also suggested that the validity of certification may be extended to five years from three years as the Discoms/ BIS is allowing type test validity upto five years and the manufacturers have to apply for renewals in middle of contract execution.

It was suggested to send a representation to BIS certification department with a copy to DG, BIS for finding a solution on the issue.

Demand Assessment Study Update:

IEEMA is carrying out a study Demand Forecast Assessment for the year 2017-2027 (10 years). E&Y has

been appointed for conducting this study. Presently, the study is in progress. E&Y has identified the top drivers, disruptors for all the product groups and has developed the forecasting framework. The objective is to carry out the primary and secondary research wherein E&Y would be interacting with 15 State Power Utilities, CPSUs, Policy Makers, Industry, Associations and Private developers. The study is likely to be completed by August 2018.

DT division members participation on National Conclave on Prevention of Accidents on Distribution & Power Transformers:

IEEMA Distribution Transformer Division on the “Manufacturer’s Perspective on Transformers Safety” at National Conclave organised jointly by Central Board of Irrigation & Power and CIGRE India on Prevention of Accidents on Distribution & Power Transformers on 22nd December 2017.

Mr. Ajay Sanghi presented a paper on accident of transformers due to bad installation/ maintenance.

Achievements of IEEMA Distribution Transformer Division:

- 1) On IEEMA's persistence, National Test House, Ghaziabad was recognised by BIS for transformer testing as per IS 1180(Part-I):2014
- 2) Delay in testing by ERDA & CPRI – was taken up by D.T. Division on all forums. Division efforts has been instrumental on pushing the testing labs to perform better.
- 3) In issuance of necessary directives from REC to all Project Implementing Agencies/CMDs/MDs of Discoms to accept the processors/Core cutters/laminations manufacturers for supplying prime quality CRGO for manufacturing of Transformers, only in such cases where complete traceability reports are provided. Also a clarification was issued on procurement of both CRGO and Amorphous metal transformers.

Representations done by IEEMA Distribution Transformer Division during April 2017 to March 2018:

- a) IEEMA representation was made to Secretary, DIPP vide No. SEC/REP/DIV/DT-TRF/UK/248 dated 21st August 2017 on the issue of dual certification of distribution transformers both by BIS and BEE Contrary to Ease of doing business.
- b) IEEMA representation was made to Secretary (Power), MoP vide No. SEC/REP/DIV/TRF/UK/261 dated 31st August 2017 on the issue of delay in testing of distribution transformers by CPRI.
- c) IEEMA representation was made to Department of Heavy Industries vide No. SEC/REP/DIV/TRF/UK/270 dated 11th September 2017 on issues related to quality control orders of steel.

- d) IEEMA representation was made to Director General, BIS vide no. SEC/REP/TRF/UK/005 dated 8th January 2018 on the issue of alarming trend of defective CRGO import.
- e) Representation to ED, REC vide no. SEC/REP/TRF/UK/276 dated 18th September 2017 for clarification on the advisory issued by REC to all Discoms/Utilities on use of prime quality CRGO only from PGCIL approved vendors.

- f) Representation to Director General, Bureau of Energy Efficiency vide no. SEC/REP/DIV/DTRF/UK/165 dated 21st June regarding clarification on the supply of level - I distribution transformers upto 30th June and implementation of the BEE gazette notification issued by Ministry of Power dated 16th December 2016 and amendment dated 17th February 2017.

IEEMA Statistic & Production Trend

Sr. No.	NAME OF THE PRODUCT	UNIT	Cumulative Production for April to Dec			% VARIATION			Previous	Maximum @
			2015-2016	2016-2017	2017-2018	2016-2017	2017-2018	2017-2018	Highest Annual Production \$	Comparison Factor %
1	2	3	5	7	9	10	11	12	13	14
5.0	TRANSFORMERS									
5.1	Dist. Transformers	Rec	8752	7662	7819	-12.5	-10.7	2.0	11610	89.80
		Non-Rec	26300	23552	27701	-10.4	5.3	17.6	35713	103.42

Name of the Product	Cumulative April to December		% variation 2017-18 over 2016-17
	2016-2017	2017-2018	
Distribution Transformer Exports(in Crores)	88	257	192
Distribution Transformer- Imports(in Crores)	779	1029	32

Economic & Taxation Committee:



The Economic & Taxation Committee 2017-18 was re-constituted by the Executive Council, under the Chairmanship of Mr. Adarsh Jain, General Manager (Finance / Commercial), KEI Industries Ltd. Mr. Yogendra Agarwal, Senior General Manager, Bharat Bijlee Ltd., was the Vice-Chairman and senior officials from Finance and Taxation Department of member organisations were nominated as members of this 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.

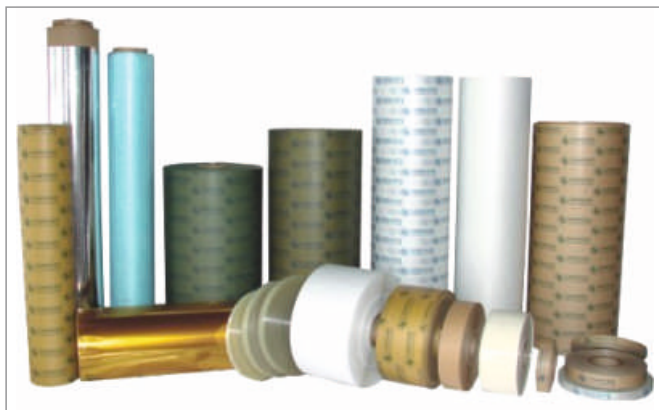
Goods and Services Tax (GST) was implemented in the country from 1st July 2017. Several electrical equipment, including cables and wires, were put under 28% of GST, which was very high. The Economic and Taxation Committee, through several representations and meetings with senior Government officials in the Ministry of Finance, Department of Heavy Industry and Ministry of Power, succeeded in getting the GST rate on these electrical equipment reduced to 18%.

IEEMA members also had several queries on the rates and provisions under GST. The Economic and Taxation Committee instituted a helpline to answer the queries of members on GST. The queries of members were resolved by the Chairman of the Committee, within a shortest possible time.

The Committee steered the pre-budget exercise and represented the IEEMA Pre-Budget Memorandum for Budget 2018-19 to the Government of India. It also interacted with the Ministry of Finance, Department of Industrial Policy & Promotion and Department of Heavy Industry, Government of India, on this subject.

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

Electrical Insulating Materials Division



- Industry Size: INR 2,000 Crores
- Number of Members in the Division: 38 organizations
- Division Meetings: 17th July 2017, Mumbai
13th September 2017, Mumbai
29th December 2017, Mumbai
23rd March 2018, Mumbai
- Number of Division meetings: 04 (Four)
- Average Attendance: 11 (Eleven)

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

- Pressure on prices from customers
- First quarter was good compared to average of last year
- Growth rate of Major OEMs' is flat leading to no major increase in business.
- There is Global Raw Materials shortage for some materials.
- Members did not have much effect on their business due to GST
- Members had an almost 2-hour interactive session with Ms Rebecca and Mr Jigar of SKP Consulting on the various aspects of GST Implementation.
- 3rd quarter looks better in growth compared to 1st and 2nd
- Wind Generator business has considerably slowed down
- Solar sector momentum has already started in 2nd quarter
- Cost of implementation in solar sector is on the decline

- Big organizations have orders but are unable to process it due to finance unavailability
- Raw material prices are on the increase
- Slight growth is observed in the Transformer industry
- Railway Business is mixed, there is a major slump for manufacturers who are supplying materials for the diesel locomotives, due to the new directive by the Railway Ministry.
- In continuation to the above, there could be a good opportunity for manufacturers supplying materials for the electric locomotives, but Members felt that the emphasis initially would be more on electrification projects.
- Power Transformer and Motor Industry are also slow.
- Payment cycle continues to long and delayed.
- LV Motors sector is showing good growth.
- Insulating Film prices have gone through the roof.
- European Markets are improving and the price realization is better.
- It was indicated that Technology wise India is very weak compared to their overseas counterparts.
- Members felt that 2018-19 would be better than 2017-18.
- Members suggested that concentration should be more on Zero Defect Awareness
- The prices in Solar sector have dropped because of low prices being offered from the Grids leading to heavy imports of modules and equipment from China and decrease in production in India.
- Payment is still a recurring issue and small players do not have much say and Capital cost are shooting up.
- Gradual shift to Electrification by Railways will definitely help in growth of Electrical Industry.

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 16 organizations who have been licensed to use this file (UL File : E318161)

INSULEC 2019 Seminar

Insulec is the flagship event of the EIM Division held every 4 years. The division has decided to organize the next edition at Mumbai in February 2019. The exact dates are yet to be finalized but the Organising and Technical Committees have already been formed and work for the same has already started

Elevators & Escalators Division



Indian Elevator & Escalator industry comprising of number of SMEs, other domestic and multinational organizations is expected to register a good growth due to growing urbanization, especially affordable housing, infrastructure development in metro, railways and airports.

The division during its 2nd year of operation, post revival in August 2015 by the Executive Council, held regular meetings every quarter at different venues. Discussions and deliberation in the division meetings revolved around the objectives mainly to bring in more representation of manufacturers on the division and helping the industry to resolve various common issues and promote the industry.

Prior to GST roll out, members reviewed definition of Works Contract and felt that majority of the industry activity will fall under this definition and will attract 18% GST. The division had sought clarification from GST council on 5 important pain issues explaining them in details.

Post roll out of GST, members deliberated considerably on pros & cons of all the provisions, practices followed and emerging issues like anti-profiteering clause, transitional credit etc. However, it was felt that most of the clarifications have been sought with clarity.

After successful changes done through representation in the Karnataka State Lift Act and rules framed thereunder, it was decided to work on harmonization of the same for all states where Lift Code exists and harmonization to National standards need to be actively worked upon.

The Chief Fire Officer, Mumbai (CFO) has issued a new 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. It is intended to submit a representation to the CFO to reconsider the content of the notification, given the common concerns shared by all industry players.

Division has also represented to the Ministry of Finance and Ministry of Commerce to keep the industry under the exception list from the anti-dumping duty provisions on cold rolled flat steel products since certain steel products used by the industry are specialized ones and are fully imported due to non-availability of the same in the domestic market.

Division is in the process of collating and compiling data of number of Lifts and Total Value on annualized basis through online data submission process

Two new members have actively joined the activities of the division during the fiscal year.



Insulator Division

- Industry Size : INR 1985 Crores
- Exports : INR 395 Crores (estimated)
- Imports : INR 659 Crores (estimated)
- Number of Members in the Division : 42 organizations
- Division Meetings: 21st June 2017, New Delhi
8th September 2017, New Delhi
15th December 2017, New Delhi
27th March 2018, New Delhi
- Number of Division meetings: 04 (Four)
- Average Attendance: 5 (Five)

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

• Concerns of Insulator Industry

Members raised serious concerns on the survival of Porcelain Insulator industry. As very less number of orders were placed during the year, the entire porcelain insulator industry faced a big problem.

Furthermore, high imports from foreign countries severely impacted the domestic Composite Insulator industry. Utilities are inviting International Competitive Biddings and meeting country's requirement through large scale imports from China.

Division took up the matter with the concerned authorities. Further, IEEMA organized a workshop on "Make in India" and "Level playing field" on 27th July 2017.

• Recommendations on validity and applicability of type test reports

Division has discussed and decided to recommend 10 years as the validity and applicability period for type test reports. Subsequently, a representation was sent to all the state utilities.

Division has decided to meet the key utilities to discuss the matter in detail.

• GST implementation and its effect on Insulator costs

IEEMA was concerned about higher rate of 28% GST, announced on some electrical products. IEEMA represented the matter to the Government, both directly to the Ministry of Finance and indirectly through other concerned Ministries; requesting the GST Council to

lower the GST rate on these products to 18%, giving suitable justifications product wise.

IEEMA had several meetings with Government authorities. Through concerted efforts of IEEMA Secretariat and members, GST rates on most of the electrical items are 18% or below.

• Effect of change in base year of Wholesale Price Index by GOI

There was a change in base of Wholesale price index numbers (WPIs) published by Office of Economic Advisor, DIPP, MoC from 2004-05 to 2011-12.

After detailed study, it was found that one of important cost item WPI for 'Fuel & Power' used in IEEMA index number for Insulator has shown a divergent trend in new base series as compared to old base series. This resulted in such an artificial reduction in the index of Insulator.

Economic Advisor, DIPP, MoC also informed about the drastic change in working of WPI for 'Fuel & Power' as the sources of information collection has increased almost 7 times coupled with revision in methodology of calculation of this WPI.

Subsequently, the price variation formula of Insulator got revised due to change in WPI index.

• Activities under Technical Committee

BIS Electro Technical Committee (ET 06) met on 12th April 2017 and formed two panels under the committee to discuss the following standards:

- Indian Standard on "Long rod type Porcelain Insulator for Overhead Power Lines with a Nominal Voltage greater than 1000 V".
- Solid Core Porcelain Insulators for Overhead Traction Lines – Specification (Second Revision of IS 4318)

• Demand Assessment Study

IEEMA is carrying out a study Demand Forecast Assessment for the year 2017-2027 (10 years). E&Y has been appointed for conducting this study. Presently, the study is in process. E&Y has identified the top drivers, disruptors for all the product groups and has developed the forecasting framework. The objective is to carry out the primary and secondary research wherein E&Y would be interacting with 15 State Power Utilities, CPSUs, Policy Makers, Industry, Associations and Private developers.

The study is likely to be completed by August 2018.

• Increase membership of IEEMA Insulator Division

For widening the membership base of 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

Representations made:

- Representation submitted to State Utilities requesting for consideration of 10 year validity of type test reports in line with IEC 60383-I, IEC 60168, IEC 62155, IEC 61109, IEC 62217 and IEC 62231.

Instrument Transformers

Instrument Transformer	
Industry size	: INR 1301 Crores
Imports	: INR 536 Crores April-Dec2017(no specific ITC code, data ‘Other Trf’ under ITC code 850131, 32, 33 & 34)
Exports	: INR 524 Crores April-Dec2017(no specific ITC code, data of ‘Other Trf’ under ITC code 850131, 32, 33 & 34)
Count of members in the division	: 84 organisations (including manufacturers, manufacturers of accessories & components, EPC Contractors & others)
Division meetings during the year	:
Number of division meetings:	4 (Four)
	12 April 2017
	7 June 2017
	19 September 2017
	12 December 2017
Average Attendance:	9 (Nine)
Technical Committee meetings:	11 January 2018 (TECH-IT 2018 and discussion on draft on upcoming standard on condition monitoring)

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

exports 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.

Over the last year a little slowdown was observed in indoor segment which was in line with a slowdown in Switchgear and Solar segments were bit down. The outdoor segment saw a steady growth. The second half of the year saw reasonably good rise in the market. Increase in demand in 145 KV is due to upward trend in Renewable Energy sector. There were very less EHV projects. Overall the Projects were there but the prices were observed to be falling down. There are lot of fluctuations observed on demand side. Lead time is an issue and challenge. However good demand is observed in 36 KV segment.

The industry also faced some problems in execution of orders and finalization of orders due to GST because the customer was not clear as who will pay the GST. The orders were not able to be finalized. Because of this there was a delay in projects.

TECH-IT 2018

The division is organizing TECH-IT 2018, 4th International conference on instrument transformers. The conference will take place on 13-14 December 2018 at New Delhi. The theme of the conference is ‘Smart Instrument Transformers – Now & NextGen’. The fundamental objective behind the theme of the conference is to get most out of an asset and to discuss and deliberate regarding futuristic requirement of Smart Grid and smart metering. It is to ensure and decide for firm action plan for longer service life and Smart Grid ready product. TECH-IT conference discusses state of the art designs, latest developments, trends in materials, upcoming technologies, digital instrument transformers, power VTs, best practices in manufacturing, processing, testing, diagnostics & condition monitoring techniques, etc. TECH-IT 2018 offers a unique opportunity to present your technical work, views and experiences in the areas of technological development and efficient use of ITs offering smarter solutions. The technical experts of the IT industry will be present at this prestigious technical conference.

The division worked on the following topics during FY 17-18.

- 1.0) Participation in BIS Electrotechnical Committee meetings as well as IEC
- 2.0) Meeting with CPRI on test gaps
- 3.0) Upcoming standard on condition monitoring – technical committee discussion on the draft

1.0) Participation in BIS Electrotechnical Committee meetings

Division members worked proactively with BIS committees for formation and up-gradation of standards, aligning the IEC standards with Indian standards for Instrument transformers. Chairman of the division is Principal member from IEEMA on this committee. The comments discussed in ET committees are further taken up for discussions by Technical Committee of IT division. The discussions held in TC are shared by the convenor in the division meetings for consensus among division members.

Division has been regularly participating in all ETD Committees of BIS. Under ETD34 Committee the members placed the concern for Internal Arc test – This is irrelevant as there is no continuous internal arcing taking place in CTs . As per IEC, Applicability of certain tests meant for liquid filled and Gas filled CTs are not made clear.

The Committee had elaborate discussions on the comments and it was observed that applicability of

certain type tests (like Internal arc test, Enclosure tightness test at low and high temperatures, Gas dew point test and Fire hazard test) to specific type of CTs/PTs should be defined/clarified in these referred standards. The Chairman of ETD 34 accepted to receive the technical inputs in this regard which will be further consolidate and send the same for onward submission to IEC TC 38 for consideration.

2.0) Meeting with CPRI on test gaps

Division worked on the details of gaps existing at CPRI. A presentation was made by the division highlighting the commercial & operational issues, gaps on product testing and full compliance to latest standards. The problems in logistics and movement of product at site were also raised. A meeting with CPRI was held on 12th April 2017. Detailed discussions were held on Commercial and Technical concerns and also subjects like single point contact in CPRI centralized payment system, single test certificates etc.

3.0) Upcoming standard on condition monitoring

During the technical committee meeting held in January 2018, presentations were made by Ms. Geeta Joshi, ABB on the content to be covered in new standard on condition monitoring. Based on the discussions, a draft was prepared by Mr. G. V. Akre. He shared the draft with the members for their review. Members expressed that since there is no international standard on condition monitoring, the proposed draft can be named as ‘guidelines on condition monitoring.’

Production Statistics

IEEMA Statistics - Production Trend						
Name of the Product		Cumulative April to March		% Variation 2017-18 over 2016-17	Previous Highest Annual Production	Maximum Comparison Factor %
	UNIT	2016-2017	2017-2018			
Current Transformers	Nos	648009	622715	-3.9	705332	88.37
Voltage Transformers	Nos	109436	108907	-0.5	114488	95.13



International Business Division



Over the years, the Indian electrical equipment industry has developed a diversified, mature and strong manufacturing base, with robust supply chain, and a rugged performance design of products. Globally Brand India presents a huge opportunity thus it is imperative to promote the growth of exports of electrical equipment that have a strong manufacturing domestic base and manufactures need to move up the value chain.

The major export markets for Indian electrical equipment are USA, Germany, UAE, Saudi Arabia, France, UK, Nigeria, China, Kenya and Brazil, Italy, Singapore, Canada Mexico, Japan which testifies to the quality of Indian manufactured electrical equipment, varying and depending on products.

A market diversification strategy based on the changing dynamics of growth in the world economy is necessary to sustain growth of exports. The industry should rethink its market strategy and focus on newer markets.

- Essential to retain presence and market share in existing geographies
- Moving up the value chain in providing quality products
- Exploring and penetrating new and emerging markets

Focus on: Africa, CIS, Latin America, ASEAN region. The industry needs the support of the Government in introducing policy changes which will specifically support exports of electrical equipment from India. These include policies related to export financing, taxation, marketing, etc. which will immensely help the Indian exporters compete better in the global arena. The Focus Product Scheme (FPS), under the Foreign Trade Policy, should be extended to cover all electrical equipment.

Indian manufacturers also need to focus on product innovation, technology, R&D, packaging, cost competitiveness. Together, we need to build a Brand India in electrical equipment domain across globe.

Activities of IEEMA:

Showcasing strength of Electrical equipment by participation of IEEMA in International Exhibitions/ Conferences

As a step to support this activity business delegations were organized to the following;

Participation on Hannover Messe, Germany- April 24 -28, 2017

In line with our objective of providing international exposure to our membership, IEEMA had put up its own pavilion in HANNOVER MESSE 2017 under EEPC India pavilion in Hall No. 12.

IEEMA Pavilion was inaugurated by Mr. Girish Shankar, Secretary- Deptt of Heavy Industry and Mr. M L Raigar, Consul General of India at Hamburg, Germany.

The organizations that participated under IEEMA Pavilion were:

1. Supreme & Co.
2. Sterlite Power
3. Terminal Technologies
4. Elektrolites
5. IEEMA

The main focus at IEEMA stall was ELECRAMA 2018 promotion and to highlight the transition of the exhibition from a Transmission and Distribution show to a complete Electricity exhibition encompassing the traditional segments such as Transmission and Distribution and newer segments such as Automation; Power Electronics, Renewables & E-Mobility. IEEMA delegation participated in various meetings and get together to promote ELECRAMA 2018. There was a major outreach effort made to exhibitors in the Energy Pavilion, Industry 4.0 and



Mr Harish Agarwal and Mr Vijay Karia presenting a ELECRAMA Invitation to Council general of India at Hamburg, Germany.

E-Mobility and approx. 100 large exhibitors were met. IEEMA Delegation was led by Mr Harish Agarwal- Vice President, IEEMA and Mr Vijay Karia- Chairman, ELECRAMA 2018.

Participation in 5th International Istanbul Smart Grids and Cities Congress and Fair, Istanbul, Turkey – 19 -21 April 2017



5th International Istanbul Smart Grids and Cities Congress and Fair, 2017

5th International Istanbul Smart Grids and Cities Congress and Fair.

Mr Sunil Misra, Director General IEEMA along with Mr Ajay Mahajan, Head Trade Fair Marketing and Sales, visited the 5th International Istanbul Smart Grids and Cities Congress and Fair organized on 19-21 April 2017 at Istanbul Congress Center, Turkey. IEEMA was invited by organizers HHB Expo Fair Ltd Sti; to participate as exhibitors at the event. Apart from various interactions and B2B Meeting with the Turkey companies, IEEMA Director General Mr Sunil Misra participated as a panelist in the panel discussion on the topic Grid Modernization and Technological Developments held on 20th April.

Mr Misra and Mr Ajay Mahajan also called upon the Consul General of India Mr Azar A H Khan at Istanbul , Turkey. The participation was to facilitate and engage participation from companies at ELECRAMA 2018.

Participation in Africa Utility Week, Cape Town - S Africa 16 -18 May 2017

IEEMA participated in the 17th annual African Utility Week (AUW), a show dedicated to electricity and water, held from May 16-18, 2017, in the city of Cape Town in South Africa. Organised by Spintelligent – Publishers of ESI Africa and other publications, AUW is Africa's leading trade exhibition for the power and water sector and provides business opportunities for solution providers, utilities and large power users.

IEEMA delegation was led by Mr. Vikas Jalan, Chairman - RBSM, ELECRAMA-2018. Other member companies who participated as exhibitors, under the auspices of India Pavilion, were Aditya Birla Insulators; Deccan Enterprises; Jainco Transmission Ltd.; NESSA; Nirmal Wires (P) Ltd.;



Africa Utility Week, 2017

Prolific Systems and Technologies Pvt. Ltd.; Shirdi Sai Electricals Ltd., Shivalic and Supreme & Co. Pvt. Ltd. and Central Power Research Institute (under Ministry of Power, Government of India).

The three day exhibition began with the inauguration of the India Pavilion, on 16th May, 2017, by Mr. Puneet R Kundal, Consul General of India in Cape Town. Mr. Kundal addressed the participants and expressed his happiness, while he met and interacted with the members of the delegation and visited their stalls. He said that more and more manufacturers should participate in such events, so that, the strength of Indian electrical industry and the power sector is visible to the world.

Mr. Kundal talked about the initiatives taken by the Government of India, especially 'Make in India', Digital India, Ease of Doing Business and informed all potential investors and decision makers to look at India as a secure, stable and reliable partner for their investments.

AUW 2017 acted as a platform to take the India Africa bilateral relations to the next level of mutual cooperation.

Participation in SIEF 2017 25 – 29th September 2017 at Seoul South Korea

A team from Indian Electrical and Electronics Manufacturers' Association (IEEMA) comprising of Mr. Ajay Mahajan, Head Trade Fairs Marketing and Mr. Uttam



Seoul International Electric Fair (SIEF) 2017

Kumar, Executive Officer Product Divisions participated in the Seoul International Electric Fair (SIEF) from 27 September to 29 September 2017 at the Coex Hall A in Seoul, South Korea. This was on the invitation of our counterpart association KOEMA.

The objective of our participation in SIEF was two pronged i.e strengthen our relationship with KOEMA and promote ELECRAMA 2018 among Korean Utilities, electrical EPC, Contractors and manufacturers with a view to exhibit/visit and explore business tie-ups with Indian companies.

IEEMA made its presence in booth D128, Hall A. IEEMA team managed to have one to

one meeting with 120 exhibitors including leading ones like Hyundai, Power Max; LS Cables; ENTEC; Joongwon etc to name a few.

IEEMA team was warmly received by the Deputy Chief of Mission, Embassy of India on 28 September 2017. He was briefed about IEEMA activities and ELECRAMA 2018. He was greatly impressed by the scale of ELECRAMA and commented that he did not know that such a large exhibition was organized in India. He responded favorably to our request to promote ELECRAMA to stakeholders in Korea and in getting a good delegation from South Korea, so that bilateral co-operation between the two countries could be strengthened. IEEMA Secretariat added that 'Make in India' offers new investment opportunities to the South Korean companies, some of which are already household names in India. Mr. Sivan assured IEEMA of the embassy's support. He, however, requested IEEMA to send an email with more details about ELECRAMA 2018 and also to specifically mention companies who could be targeted.

Participation in Taitronics and FAEMA 09 – 15th October 2017, Taipei, Taiwan

IEEMA has enjoyed a good relationship with number of counterpart associations across the Globe, especially in South-East Asia and far East.

In 2005, it was felt that the federation of Asian associations having common interests and goals would help leverage the Asian Industry into European and

American markets. Accordingly 6 associations came together to form FAEMA. In alphabetical order they are:

1. AIG (Australian Industry Group), Australia
2. CEEIA (China Electrical Equipment Industry Association), China
3. IEEMA (Indian Electrical & Electronics Manufacturers' Association), India
4. JEMA (Japan Electrical Manufacturers' Association), Japan
5. KOEMA (Korean Electrical Manufacturers' Association), Korea
6. TEEMA (Taiwan Electrical & Electronics Manufacturers' Association), Taiwan

Objectives of this federation as follows:

- To formally meet once a year and exchange commercial and technical information including latest development trends in respective countries. The information thus received would be disseminated to members.
- Participation on complimentary basis in the counterpart association's trade fairs.
- Helping each other in identifying new emerging markets and creating market access.
- Working towards common standards and specifications for safety, quality and energy efficiency

As a part of the FAEMA Forum, IEEMA was invited to the Annual General Body Meeting of FAEMA which was organized in Taiwan alongside the exhibition in Electronics called Taitronics. The exhibition is into consumer electronics and holds less relevance to the Electrical Equipment Industry involved in the Transmission and Distribution of Electricity.

Engaging with Power and Energy sector delegations from various Countries:

- I. Finnish Deputy Minister Mr. Petri Peltonen Under Secretary of State (Deputy Minister) Ministry of



Annual General Body Meeting, FAEMA



Finnish delegation, New Delhi

Employment & Economy, government of Finland along with Mr Marko Makinen, Head of Delegation, visited IEEMA Delhi office with a delegation from Finland on 26 April 2017, the companies were from the smart meter, Smart grid and IOT sectors. The delegation was received by Mr Sanjeev Sardana, President, IEEMA and Mr Sunil Misra Director General, IEEMA along with a few Members of IEEMA Metering and Smart Grid Division.

2. To improvised bi-lateral relationship between UAE & INDIA, Dubai Electricity and Water Authority (DEWA) organized networking sessions/ Roadshows at Delhi/ Gurugram, Mumbai and Jaipur, as per the schedule :

Presentation	Day	Date	Venue	Hotel Stay
Delhi / Gurgaon Gurugram	Monday	17-Jul	The Oberoi Gurugram	The Leela Palace New Delhi.
Jaipur	Wednesday	19-Jul	The Oberoi Rajvilas Jaipur	The Oberoi Rajvilas Jaipur.
Mumbai	Friday	21-Jul	The Oberoi Mumbai	The Oberoi Mumbai.

Mr Sanjeev Sardana, President – IEEMA, Mr Anil Saboo – Chairman IEEMA International Business Division and Mr Sunil Misra , Director General along with IEEMA Members attended these session in Delhi, Jaipur and Mumbai. IEEMA Members and Senior officials from DEWA interacted during these sessions. Members availed this opportunity and took advantage of these sessions to further their business interest in UAE.

UL is a premier global independent safety science company with more than 120 years of history, employing more than 11,000 professionals in over 100 countries. The broad objective of this interactive session is to share the global opportunities with IEEMA members to further export growth. UL having its presence in more than 120 countries is keen to work with IEEMA members in facilitating a global market access and also sharing opportunities across key products categories in the Low Voltage domain covering Switching & Protection devices



IFIA delegation, New Delhi



Mr. Heejoong Kim – Executive Director, Korea Trade Center (KOTRA), Embassy of The Republic of Korea

[Circuit breakers etc.], Metering, Cables, Capacitors, Distribution Transformers etc. In addition UL may also discuss on PLC, DCS Automation Systems in distribution.

UL leadership would also like to understand the current market scenario in India [in mentioned areas] and what assistance will IEEMA members need from UL in terms of meeting their need for compliance, capacity building as per local regulatory and other requirements [product development etc] for business needs in India. A follow up meeting was held again on 16 August , were UL has proposed to work in collaboration with IEEMA on research and building up customized Awareness Programme modules on International Certifications.

On 16 August Korea Trade Center (KOTRA), Embassy of The Republic of Korea Executive Director, Mr. Heejoong Kim – Executive Director met Mr Sunil Misra DG, IEEMA and discussed about joint working for the benefit of both the Nations in the Power Sector. They shared participation of IEEMA at upcoming business meeting event “Korea Electric Industry & Generating Industry Expo” 2017 COEX Seoul. And Korean participation at EL 18.

Ms. Hanane Taidi, Director General, IFIA [The International Federation of Inspection Agencies] based in Brussels, visited IEEMA Office in August , to have a detailed discussion on the subject of conformity assessment with several stakeholders and understand how IFIA could assist.



Delegation from South Africa, New Delhi

Activating the MoU Partners of IEEMA in various Countries for facilitating and catalyzing bilateral relations

1. MoU was signed with BEAMA on 13th May at London UK.
 2. MoU was signed with KOTRA in September
- Organizing Sessions which are networking and brainstorming during the meeting of Division:
- During IEEMA International Business Division meetings

we have had interactions with relevant stake holders to discuss contemporary issues related to the subject.



MoU with BEAMA



- Industry Size: INR 15800 Crores
- Import: INR 10008 Crores
- Export: INR 6058 Crores
- Imports: INR 10008 Crores including LV Custom built products) Source: DGCI&S.
- Exports: INR 6058 Crores including LV Custom built products) Source: DGCI&S
- Number of Members in the Division: 106 organizations (including LV Switchgear manufacturers, manufacturers of accessories & components, EPC Contractors & others)
- Divisional Meeting:
 - 02nd June 2017
 - 04th August 2017
 - 27th October 2017
 - 25th January 2018

Number of Divisional meetings: 4 (four)

Average Attendance: 14

Key Discussions / Activities during the year:

- Members discussed and deliberate that state of Industry in each meeting and observed that ,while electrical equipment industry grew 12.6% the growth of LV Switchgear Industry was recorded as 3.3%
- The Division Members were actively involved with various committees of BIS, ET07, ET20, ET50 etc and made significant contribution towards development of standards.
- The Division members enthusiastically contributed towards development of Standards on LVDC ie IS 16711 : 2017
- The division has initiated the activity of reviewing the 2002 version of Price Variation formula for LV Switchgear
- Ministry of Heavy Industry and Public Enterprises had proposed Quality Control Order IS/IEC 60947 ie the products covered under 60947 will come

under mandatory BIS certification, The Division submitted a detailed letter to Ministry and informed that industry is unanimously not in favour of the proposed draft Quality Control Order IS/IEC 60947

- The division members are actively involved in the revision of National Electrical Code (NEC), which is under the scope of Electrical Installations Sectional Committee, ETD 20
- The Office of Economic Advisor, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India, vide its Press Release dated 12th May 2017 has informed revision in base year of all India Wholesale Price Indices (WPI) from 2004-05 to 2011-12 . Since IEEMA uses WPI in Monthly PV circulars , the matter was deliberated in the Division meeting and accordingly the base year of Wholesale Price Indices (WPI) was revised from 2004-05 to 2011-12.
- In order to get a realistic picture which could be useful to all, the members deliberated on the reporting format and formed a subcommittee which after deliberation has come up with revised reporting format, it will be effective from April 2018.

- The Technical committee (TC) of Division was revamped and new convener has been appointed, The TC has been working on the activities assigned by the division and TC members are involved in BIS at various committees.

LV Switchgear Division:

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 100 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	:	IRN 3280 Crores (Estimated)
Number of Members in the Division	:	50 organizations
Divisional Meeting:		
		26th May 2017
		24th August 2017
		02nd November 2017
		19th January 2018
Number of Divisional meetings	:	4 (Four)
Average Attendance:		15 (Fifteen)

Key Discussions / Activities during the year:

- The Division Organised 7th edition of Metering India Seminar with the Theme “ Towards Smart and Sustainable Utilities” the seminar was a benchmark and set many records in terms of Delegate participation, Participation from Utilities, International Participation, Media Coverage etc there was more than 500 participants from 170 Organisations.
- The Division jointly with NSGM organised a workshop on Business Model for Smart Meter Implementation ,The various stakeholders of Metering ecosystem was present in the workshop, IEEMA also presented a possible business model for Smart Meter roll out.
- The Division actively participated in the meetings called by DIPP to discuss the inclusion of IS-15884 under mandatory BIS certification, The Division members unanimously agreed that IS-15884 should be included under mandatory BIS certification.
- Actively involved in various policy level discussion with Ministry of Power regarding Smart Meters roll

out in India, the Division presented various solution of Metering ie Prepayment , Smart Metering to Hon'ble Power Minister, Government of India

- Participated in the Meeting organised by Ministry of Power to explore the capacity and capability of Meter Manufacturer to meet the sudden demand which will arise after implementation of SUBHAGYA Scheme, The Division assured that Industry is ready to meet any sudden demand with in country.
- Actively involved at BIS and CEA level on standardization related issue
- The Division supported a workshop organised by CBIP on “Technical and Testing Challenges for Smart Meters” and Chair and Vice Chair of Division was part of Panel Discussion on “Need of Smart Metering” the session was attended by more than 150 Participants.
- The Division submitted the reply to CEA against a query on delinking of ISI5959 with ISI6444 The division submitted a detailed argument and mentioned that delinking of ISI5959 with ISI6444 is not advisable.
- Technical Committee of the Division submitted inputs to MSEDCL on various queries raised by them

Representation Made:

- EESL came-up with 5 Million Smart Meters Tender however the tender had ICB clause, the representation was submitted to EESL that as per CEA advisory in domestically funded projects the local bidding should be encouraged.

Metering India 2017, 6th and 7th April 2017

The 7th edition of Metering India 2017 seminar was held on 6th and 7th April 2017 at hotel Le Meridien New Delhi. The theme for Metering India 2017 was..Towards Smart and sustainable utilities which is in line with the government of India's vision of 24X7 Power for All. The Seminar was supported by Ministry of Power, Ministry of New and renewable energy, National Smart Grid Mission and International Electrotechnical Commission, IEC. The Seminar had 23 Sponsors which included Meter Manufacturers, Chip manufactures, Communication Technology Providers, ESCII, ESCII, Entity under Government on India. The Seminar was inaugurated by His Excellency Mr. V P Singh Badnore, Governor of Punjab & Administrator of Chandigarh UT. Mr. R.K Verma, Chairperson (I/c) , Central Electricity Authority graced the occasion as Guest of Honor. Ms. Ritu Maheshwari IAS, CEO of RECTPCL addressed the

delegates at the inaugural session and Mr. Richard Schomberg , Chairperson – IEC System Committee of Smart Energy delivered the Keynote address. Metering India Seminar has set a new benchmark and achieved many “first ever” among all other technical seminar in IEEMA in terms of delegate participation , revenue etc.

Seminar Highlights

- 500 + Participants (Highest Ever in any Technical Conference)
- 170 Participating Organization
- 157 Participants from 49 utilities
- Gross Revenue Over 120 Lakhs (Highest ever in any Technical conference)
- 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.

The two days Seminar had total 8 sessions including 5 technical sessions and 3 panel discussions. Total 21 technical papers were presented by experts. The panel discussions saw a deliberation on how to make Discoms more smart and sustainable. Mr. Jitendra Agarwal, Chairman Meter Division moderated the panel discussion on “Sustainable Utilities”.

Meter Division took a unique initiative to “Go Green” and make the Seminar paperless seminar. In order to do so the printing of papers was done away with Amazon Kindles which were given as a delegate kit preloaded with technical papers, This step was appreciated by all participants.

While promoting the Metering India 2017 among all stakeholder the Organising committee came up with a promotional video which highlighted how India is changing and power is reaching to all ,how Smart Metering will



From L to R Mr. Harish Agarwal, Vice President IEEMA, Mr. Sunil Misra, Director General IEEMA, Mr. Richard Schomberg, Chairperson – IEC SyC of Smart Energy, Mr. Jitendra Agarwal, Chairman, Meter Division, His Excellency Mr. V P Singh Badnore, Governor of Punjab and Administrator of Chandigarh UT, Mr. R. K Verma Chairperson, Central Electricity Authority



Metering India 2017 Organising Committee

improve the health of DISCOM and how the Metering India as platform will work as a catalyst in faster adoption of technology. The video was played to many key Stakeholders like then Hon'ble Minister of Power, Mr. Piyush Goel, Central Electricity Authority, Various Heads of DISCOMs, Ministry of Power and ESCII to name a few.

The Seminar saw a good coverage in print and electronic media, The entire proceedings of the seminar has been uploaded on YouTube for the benefit of masses.

Workshop on Business Models for Smart Meters Rollout, 12th June 2017

IEEMA jointly with National Smart Grid Mission Organised a workshop on 12th June 2017 to discuss and deliberate on the viable business models for Smart Meter Rollout, the Workshop was participated by key stakeholders of ecosystem. Dr. A.K Verma Joint Secretary Distribution set the context the led the panel discussion post presentations. The various business models was presented by EESL, RECPDCL and KPMG. IEEMA Meter Division also presented a viable business model on behalf of Metering fraternity which was based on Opex-cum-Capex model. The presentation of IEEMA highlighted the roll and responsibilities of all key stakeholders, It also emphasized that utilities should take full ownership of project since day one. The model presented of IEEMA also suggested the sources of the funds which does not burden any individual stakeholder

Workshop on Technical and Testing Challenges for Smart Meters' 2-3 November 2017

Central Board of Irrigation and Power (CBIP) and National Smart Grid Mission (NSGM) had organized a Workshop on 'Technical and Testing Challenges for Smart Meters'. The Workshop aimed to review & discuss the Need, expectation from smart grid and then to discover the required features and functionality of smart meters to achieve the objective. The purpose of the workshop is also to review features which have lost relevance but may be part of specification as tradition and may add cost or bring complexity.

The workshop was supported by IEEMA, Most of the members of IEEMA Meter Division participated in the workshop.

Mr. Jitendra Agarwal, Chairman IEEMA Meter Division during his inaugural address congratulated the CBIP and NSGM for organizing the workshop on such an important and need of the hour topic and assured that IEEMA will always extend its support in all such initiatives.

Mr. Jitendra Agarwal, Chairman IEEMA Meter Division and Mr. Ashish Tandon, Vice Chair, IEEMA Meter Division was part of panel discussion on "Need of smart metering" and expressed Industry view on this important issue.

MV & HV Switchgear Division

Industry Size	: INR 5300 Crores (estimated)
Import	: INR 1779 Crores
Export	: INR 2080 Crores
Number of members in the division	: 82 organisations
Division Meetings	: 11th April 2017, CPRI Bangalore 26th July 2017, IEEMA Delhi 3rd November 2017, IEEMA Delhi 16th January 2018, IIT Mumbai
Number of division meetings	: 4 nos.(Four)
Average Attendance:	11 nos,
Average number of companies per meeting	: 8 nos.

Technical Committee Meetings:

Divisional Events/Conference:

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

Regional workshop with Utilities / DHI / MoP on Terms & Conditions, Domestic procurement:

During last year a need was felt in MV HV Switchgear Division to organise regional workshop with Utilities. The objective of doing such workshop was to understand the policies in depth, create awareness and ensure implementation by all stakeholders, so that these policies are followed in letter and spirit. The intent was organising



such Workshop was to come out with some actionable points for the Government and the Industry.

Utilities terms & Conditions: _Meeting with Utilities i.e WBSEDCL, KPTCL, UHBVN, HVPNL_ Way forwards:

During the year meetings were held with WBSEDCL to discuss contract terms and conditions. The outcome of the meeting was to constitute a committee where WBSEDCL would nominate few members from their end and together with IEEMA regional chapter; the suggestions made by the Industry would be deliberated for further recommendations.

During one of the division meetings, few members were assigned responsibility to provide inputs to different Utilities. Members were informed about interactions done with UHBVN and HVPNL on the issue, where both the utilities were demanding a comprehensive representation with reference to validity followed by the other utilities encompassing the changes requested in the Type Test validity for all the products being procured by them. Utilities are willing to consider the points raised by the Industry with valid reference documents to be submitted.

It was informed that Utilities are asking the information in all product range and secretariat informed that initial letters have gone after receiving inputs across all the product divisions.

IEEMA was advised to do a follow up with KPTCL and WBSEDCL through IEEMA state offices.

Draft presentation on Technology Innovations _prepared by Mr. Gopa Srinivas, Convenor, TC,MV HV Switchgear division:

The presentation made on technical innovations by Convenor, Technical Committee was shared with the members. IEEMA to see as how the subject has to be represented to CEA / Other Policy makers in a suitable forum showcasing Industry's preparedness to address some existing pain points on reliable power.

Technical Committee to suggest how Industry (MV HV Switchgear Division) can engage with BARC on R&D efforts:

Member's stated that engagement with BARC in the division meeting was useful. Few members informed that

they have already started a dialogue with BARC post divisional meeting.

Make in India Workshop on 27th July 2017:

IEEMA has organized a Workshop, with Department of Heavy Industry, Government of India, on the topic "Make in India and Level Playing Field" on 27th July 2017 at New Delhi.

- Participation from Utilities was good; all utilities came forward to support Indian manufacturers and favoured to change their QR.
- DHI and Industry to work together on skill development.
- New Procurement Policy sent to PSUs and not to Utilities. IEEMA to see as how the Inter ministerial meeting could be organised to look on implementation of this policy.

The workshop was addressed by Secretary, DHI; Chairperson, CEA; Joint Secretary(s), Department of Heavy Industries; Economic Advisor, Ministry of Power. Apart from the inaugural session, 3 sessions were conducted on the topics, Make in India – Implementation of Recommendation of National Capital Goods Policy and CEA Advisory on Domestic Competitive Bidding for Domestically Funded Projects'; 'Level Playing Field' and 'e mobility and Opportunities to Electrical Industry'.

Test Gaps with CPRI:

Meeting was held with CPRI on 11th April 2017 to discuss on test gaps of MV HV Switchgear. CPRI gave an assurance that with new investment planned to augment Generator source, most points will be resolved in the next 2 – 3 years. It was also advised to share the CPRI test gaps with ERDA also.

IEEMA was advised to fix up a meeting with DG, CPRI for a follow up meeting to discuss further on the test gaps w.r.t MV HV Switchgear equipments.

Overview of the Transmission Sector:

Mr. S.K.Ray Mohapatra, Chief Engineer CEA was invited to address members on the transmission sector overview during one of the division meetings. Mr.S.K.Ray Mohapatra briefed about the expected growth of the transmission sector in India including the Cross Border

links with the neighbouring countries (Nepal, Bhutan, Bangladesh, Myanmar) during the plan period 2017-2022. Addition of about 1,00,000 ckt-kms of transmission line and about 250-300GVA of transformation capacity (220kV and above voltage level) have been planned for the above period for strengthening of existing system in order to meet the projected power demand.

In last decade, the growth of Indian Power system is phenomenal and Indian transmission system has adopted latest advanced technologies like +/-800kV HVDC, +/-320kV VSC based HVDC, SVC & STATCOM for dynamic control of over voltages, HTLS conductor for enhancing power transfer in a corridor per meter of RoW, use of

easter oil in transformer, use of polymer insulator technology, steel pole structure with reduced foot print for overhead transmission of power, GIS technology (offering lot of advantages over conventional AIS technology) etc.

The long term benefit and over all Life Cycle Cost (LCC) is becoming the criteria for utilities to adopt advanced technologies. CEA (Technical Standard for construction of Electric plants and electric lines) Regulations and other regulations, which are under revision, are mandating the adoption of various technological options and addressing other issues for the overall benefit of the power sector.

Power Generation Systems



demand in India. The Government of India's focus on attaining 'Power for All' has accelerated capacity addition in the country. At the same time, the competitive intensity is increasing at both the market and supply sides (fuel, logistics, finances, and manpower).

In order to accommodate high quantum of renewable energy into the grid, thermal plants are likely to run at low plant load factor (capacity utilization) in future.

In fact, it has suggested that a market mechanism through regulatory intervention needs to be evolved so that the owners of thermal plants are able to recoup the investment and at the same time, customers are not unnecessarily burdened with high tariff.

Thermal Power Generation: The conventional generation during 2017-18 was 1205.921 BU as compared to 1160.141 BU generated during 2016-17, representing a growth of about 3.95%.

Generation and growth in conventional generation in the country during 2009-10 to 2017-18 :-

Industry Size	: INR 39,000 Crores excluding exports
Exports	: INR 1000 Crores (Approx)
Number of Members in the Division	: 24 organizations
Division Meetings:	10th April 2017, New Delhi 07th June 2017, New Delhi 27th September 2017, New Delhi
Number of Division meetings	: 05 (3 Division and 2 White paper Committee Mtg)
Average Attendance	: 10 (Ten)

Year	Energy Generation from Conventional Sources (BU)	% of growth
2009-10	771.551	6.6
2010-11	811.143	5.56
2011-12	876.887	8.11
2012-13	912.056	4.01
2013-14	967.150	6.04
2014-15	1048.673	8.43
2015-16	1107.822	5.64
2016-17	1160.141	4.72
2017-18*	1205.921	3.95

* Upto March 2018 (Provisional), Source : CEA

Summary of Division meetings:

State of Industry: Indian power sector is undergoing a significant change that has redefined the industry outlook. Sustained economic growth continues to drive electricity



* Upto March 2018 (Provisional), Source : CEA

Objectives/ Key discussion points:

- Draft National Energy Policy (NEP) - The Draft NEP was issued by NITI Aayog in June '17, seeking comments/ views/ recommendations from the stakeholders and public at large. The committee discussed the following key points of the Draft NEP which are likely to affect the industry:-
 - The energy demand of India is likely to go up by 2.7-3.2 times between 2012 and 2040, with the electricity component rising 4.5 fold.
 - In the Energy mix, the overall share of fossil fuels would have come down from 81% in 2012 to 78% in 'ambitious' pathway in 2040.
 - The share of solar and wind is expected to be 14-18% and 9-11% in electricity, and 3-5% and 2-3% in the primary commercial energy mix respectively.
- It is envisaged that in 2022, India's renewable electricity would comprise more than 15% of electricity generated in the country.
- While a cumulative capacity target of 175 GW has been declared for the year 2022, by 2040 a likely capacity of 597-710 GW is expected to be achieved. No targets are proposed beyond 2022 as the growth is expected to take place autonomously. The above capacity will translate into 50%-56% and 29%-36% Renewable Energy (excluding large hydro) capacity in installed capacity and generation from all power generation sources by 2040, in place of 14% and 6.5%, respectively in 2015-16.
- Impact of GST on the Sector- Overall impact including for balance of plant equipment and GST on service component is estimated to increase the capital cost for imported BTG based projects by ~2% to 3%.

Power Transformers

- Industry Size : INR 1985 Crores
- Exports : INR 395 Crores (estimated)
- Imports : INR 659 Crores (estimated)
- Number of Organizations in the Division : 190 organizations.
- Division Meetings : 12th May 2017, Mumbai
12th July 2017, Delhi
9th October 2016, Delhi
13th December 2017, Delhi
2nd February, Mumbai
- Number of Division meetings : 5 (Four)
- Average Attendance : 18 Nos.
- Divisional Events/Conference:

IEEMA Workshop on Power Transformer Tank Fabrication at Hotel Surya Palace, Vadodara on 23rd March 2018

Summary of Division meetings: Objectives/ Key discussion points

Power Transformer Standardization Manual IEEMA 25-2014_ Formation of a Working Group:



Ministry of Power has constituted a committee under the Chairmanship of Member (Power System), CEA with the objective to standardize specifications of Power Transformers. IEEMA. Two Committee meetings has already taken place in CEA for preparation of the Power Transformer Manual.

During the 2nd Committee meeting held at CEA certain organizations were identified(few of them are also IEEMA Members) for providing inputs for various sections which forms part of the standard specification and one of the experts of the group was assigned the responsibility as lead member for compilation of the inputs. The constituent members of the group will provide the inputs in editable format to the lead member. The lead members will prepare the chapter wise draft document with the help of constituent members and submit the same to CEA for reviewing. IEEMA is following up for the next meeting which is getting delayed because of Administrative Changes at CEA.

Commercial Terms and Conditions:

IEEMA Transformer Division has initiated the activity and had prepared a compilation of various contracts Terms and Conditions of different utilities, which do not facilitate

ease of business proposing changes as per contemporary practices along with justifications.

The inputs were discussed in other product division also; based on that, a compiled document was prepared and represented to Utility heads for revisions in contract Terms and Conditions giving justifications with suggested changes.

During the year IEEMA delegation from all product divisions had met CMD, PSPCL & PSTCL and also MD, HVPNL.

Type Test recommendations for Power Transformers:

IEEMA informed that in past couple of meetings held, this subject was discussed in different product divisions. It was suggested that frequency of the type test requirement shall vary from product to product, and a uniform time interval cannot be suggested for all the products.

Mr. Ramachandran has prepared a base document on Type Test Validity for Power Transformers.

Chairman advised to circulate the document among the members present for their final comment, so that the same can be finalized and submitted to CEA from IEEMA.

Short Circuit Guidelines:

IEEMA informed that the subject is a very old topic which IEEMA has been pursuing with CEA for a long time. IEEMA transformer division technical committee experts has already stated that Short Circuit Test is a special test and as per IEC 60076, decision for conducting this test should be on mutually agreed terms between manufacturer and purchaser.

Experts from the transformer division was of the view that time period for repetition of short circuit test on similar type and design of transformer should be 10 years and Annexure-B of IEC 60076-5 should be used to establish similarity.

It was discussed that Utilities are having a view Short Circuit testing of transformers as proposed in regulations shall help in improving the design and quality of transformers.

Deemed Export PV Circular:

IEEMA informed that the benefits of deemed export have been removed post GST. Members from the transformer division raised a number of queries about the old contracts which are under execution. The circular was on hold for some time and later on during the division meeting it was decided to release the PV circular for Transformer Deemed Exports. They informed that the post GST, benefits of deemed exports are continued but there is a change in procedure to avail the same. Members discussed that government has agreed to refund of duty on Deemed exports.

Compilation of Production Capacity:

During the division meeting a need was felt to collect the data online from members. Accounts were created for reporting members on statistics.ieema.org and information was shared with all members. Chairman advised secretariat to send communication to all division and reporting members with his signature. After lot of persuasion also only few members has reported the data.

CPRI and NHPTL High Test Charges:

IEEMA Members has discussed during one the division meetings, that there is no major test gaps at CPRI, however the charges are exorbitantly high in comparison to the charges at international test levels.

Director General, informed that IEEMA is on the board of CPRI, which decides the CPRI testing charges. Chairman requested DG to represent this matter strongly.

Members suggested that the new NHPTL lab in Bina will be functional by year end, so IEEMA should write to NHPTL and CPRI for reducing the prices.

Members were nominated to collect the prices from the foreign laboratories for different ratings.

A suitable time frame was decided for collection of the various quotations. IEEMA Secretariat was advised to inform the nominated members from the division to collect the prices for the different ratings from KEMA and other foreign laboratories. It was also deliberated that a good comparison needs to be done for highlighting this subject. The short circuit prices intended to be obtained from CPRI, NHPTL, KEMA and Wuhan High Voltage Research Institute (Chinese Lab) will give comparison for establishing our point of high test charges by CPRI and NHPTL. Representation was made to Secretary (Power). IEEMA was advised to follow up with the Ministry of Power.

Training program for the utilities:

IEEMA Product divisions have been assigned to come up with proposals for imparting training to the utilities on aspects like Design, Manufacturing, Testing, Operation, Erection at Site, Testing at Site, Commissioning, Maintenance, Trouble shooting, Transformer failure



National Conclave on Distribution & Power Transformers, New Delhi

Analysis and Preventive Actions, New Development in Transformer Technology etc.

During one of the division meetings, Director General, IEEMA informed that they had signed an MoU with NPTI and PSCC and accordingly resources of NPTI/REC/PSCC/Utility Training centers is available to be used for training.

DG informed for doing a program starting from Transformer division, for which content building/Module for the utilities is required. Division members were requested to suggest and provide training modules.

For conducting such trainings, Mr. Ramachandran agreed to prepare a draft note/white paper which may be presented to the utility to framing different modules. Members discussed that engaging/trainers is the key issue.

Members also discussed that some kind of manual/guidelines on Operation, Maintenance, Erection & Commission may be prepared for content building. Also it was deliberated at length that utilities may nominate 10 officials who may be trained by the industry, and these trained officials may be the change agents within the user organization.

Disruptive technologies for Transformer Industry:

IEEMA Secretariat informed members to share their thought on the disruption for the Transformer Industry and following technological changes were suggested:

a) Microgrids b) Renewables c) Fibre optic sensors for transformers.

Chairman suggested that manufacturers have to be prepared for the changes in line with the demand of the customer.

Power Transformer Quarterly bulletin:

IEEMA informed members that Mr. Ramachandran has provided a draft proposal to IEEMA for further discussing in the division. Mr. Ramachandran said that IEEMA should have quarterly bulletin for the Power Transformer Division which should cover all activities of the division, new technologies, innovations, etc. The bulletin shall be available as a soft copy to members for informing them about the activities of the division.

To start with members requested Mr. Ramachandran to prepare the content of the bulletin i.e. starting from details on history of transformers. Two quarterly bulletins have already been circulated to the division members covering all the activities of the division. It was decided that all technical committee members of the division will be invited to contribute in the Quarterly bulletin.

TRAFOTECH Conference 2018:

TRAFOTECH Technical Conference, held once in four years, is a prestigious international conference and has gained worldwide recognition for the state of art information on Transformer Engineering and Technology insights.



Workshop on Power Transformer Tank Fabrication

TRAFOTECH International Conference on Transformers, held once in four years since 1982. The tenth Conference will be held on October 4th & 5th 2018 at New Delhi. The theme of the conference is Transformers for Future Power Networks.

Major changes are coming in electric power grids by way of distributed power generation, digitalization, grid stability, Industry 4.0 Revolution etc. Industry has to think and plan for the changes required to meet the challenges thrown up by the future power networks. Vendor Development Workshop:

Chairman informed members about the need for developing vendor base in India which is not qualitatively international.

Members deliberated that Indian Transformer manufacturers are working with the same vendor for the last 25 to 30 years. A strong need was felt to organise a small workshop where different vendors for Tank, Gasket, Valve, Fans etc. may be invited for discussion on the quality aspects as the export market globally is not looking at the Indian products/equipment visually good. IEEMA secretariat was advised to organise meeting to take the activity forward. Demand Assessment Study: IEEMA is carrying out a study Demand Forecast Assessment for the year 2017-2027 (10 years). E&Y has been appointed for conducting this study. Presently, the study is in process. E&Y has identified the top drivers, disruptors for all the product groups and has developed the forecasting framework. The objective is to carry out the primary and secondary research wherein E&Y would be interacting with 15 State Power Utilities, CPSUs, Policy Makers, Industry, Associations and Private developers.

The study is likely to be completed by August 2018.

Workshop on Power Transformer Tank Fabrication at Hotel Surya Palace, Vadodara

Power Transformer division of IEEMA organized a one day workshop at Vadodara exclusively for transformer tank fabricators and transformer manufacturers with the dedicated theme of improving the quality, surface finish and aesthetics of tanks to global standards. This workshop, first of its kind from IEEMA to support sub-vendors to achieve excellence was held on March 23,

2018 at Hotel Mercure, Vadodara. Approximately 170 participants, with nearly equal participation from transformer manufacturers and tank fabricators, attended the workshop. Tank designers, quality inspectors, fabrication engineers, welding and painting experts from industry actively participated in the workshop.

Workshop was opened for deliberations by Power Transformer Division Chairman, Mr. Manjit S Sethi who emphasized the need for super quality tanks with excellent surface treatment and painting to meet the challenges in the transformer export markets. There were four sessions covering topics viz (a) tank specifications and aesthetic requirements, (b) materials, fabrications and fitting (c) welding and testing (d) surface treatment and painting. Each session had an expert key note speech covering current and latest trends on the topic, followed by summary reports from rapporteurs, covering the supplementary papers and case histories (a total of 32 papers and problem histories from industry members) and bringing out the cardinal learnings from them. Key note speakers were Mr. P Ramachandran (ABB), Mr. Rajan Choran (TELK), Mr. Satish P Sawant (Institute Of Welding and Testing Technology, Thane, Mumbai) and Meghan M Manjarekar (National Institute of Coating Technology, Pune). There were lively discussions and experience sharing during each session.

In the concluding session chaired by Mr. Manjit S Sethi the following way forward actions were agreed upon:

- Formulate a common industry specification for Tank covering fabrication, welding, surface treatment, painting and testing requirements
- Guide lines for fabrication friendly designs meeting aesthetic requirements
- A standardization and variety reduction Guide – fixing sizes and grades of materials for transformer industry, standard flanges, man holes and hand holes.

All these will be compiled in to an IEEMA standard that will be adopted, in due course, by utilities in their specifications as happened in case of IEEMA Standard for Transformer Radiators. Committees are being formed from industry experts to draft the above guides.

It was also suggested to plan for annual mutual visits by designers and fabricators for close interactions for quality improvement. Fabricators should arrange annual audit by welding and painting experts to improve their quality and productivity to global levels.

Workshop Highlights:

- More than 170 + participants
- Stakeholders involves Transformer Manufactures, Tank fabricators, Paint Manufacturers, Consultants etc.

Achievements:

- Successful workshop on Power Transformer Tank Fabrication with approximately more than 170 nos. of participants from Transformer Manufacturing Industry, Vendors of Tank Fabricators, Consultants, Paint Manufacturers.
- Formulation of Committee under CEA for the implementation of Power Transformer Manual.

Representations done by IEEMA Power Transformer Division during April 2017 to March 2018:

- Representation was made to Secretary (Power), Secretary(DHI), Secretary(DHI), Secretary(DIPP), Secretary(MSME) and Secretary(Revenue) vide reference no. SEC/REP/S/143 dated 31st May 2017 on high GST rate of 28% on Electrical Products such as Wires & Cables, Winding Wires, Transformers, LT Switchgears, Switch Boards, Insulators, Industrial Electronics, Electric Lamps and Electrical Joints.
- Representation was made to Secretary (Power), Ministry of Power vide reference no.SEC/REP/DIV/PTRF/UK/290 dated 11th October 2017 on the high test charges levied by CPRI for short circuit test of Power Transformers.

Representation was made to Secretary (Power), Ministry of Power vide reference no.SEC/REP/DIV/PTRF/UK/289 dated 11th October 2017 on the high test charges levied by NHPTL for short circuit test of Power Transformers.

IEEMA Statistics- Production Trend:

Sr. No.	NAME OF THE PRODUCT	UNIT	Cumulative Production for April to Dec			% VARIATION			Previous	Maximum @
			2015-2016	2016-2017	2017-2018	2016-2017	2017-2018	2017-2018	Highest Annual	Comparison
1	2	3	5	7	9	10	11	12	13	14
5.2	Power Transformers	000'KVA	118374	137891	164976	16.5	39.4	19.6	202036	108.88

Name of the Product	Cumulative April to December		% variation 2017-18 over 2016-17
	2016-2017	2017-2018	
Power Transformer Exports(in Crores)	1146	734	-36%
Power Transformer- Imports(in Crores)	227	284	25%

Public Policy Cell

The Public Policy Cell was re-constituted by the Executive Council in 2017-18, under the Chairpersonship of Mr. Vikas Khosla, then President of Aditya Birla Insulators. The members of this Cell were Chairmen and Vice Chairmen of IEEMA Product Divisions, 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; adverse impact of free trade agreements; disadvantages due to concessional project imports under chapter 98; testing gaps at CPRI and non-recognition of its test certificates in some foreign countries; technical barriers

faced by Indian exporters; Non-implementation of CEA advisory on domestic procurement and recommendations of National Capital Goods Policy, disadvantages of Tariff Based Competitive Bidding and Reverse Auction Merchandise Exports from India Scheme, etc.

A Workshop on 'Make in India and Level Playing Field' was organised by the Public Policy Cell, on 27th July 2017, under the aegis of the Department of Heavy Industry, Government of India.

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



107.81 GW as of February 2018, which is around 32.26 per cent of total energy capacity of the country (334.15 GW). Global Trends in Renewable Energy Investment Report 2018 ranked India as fourth in terms of new investments in renewable energy. In 2017, for the first time, solar became the main source of new power capacity addition. It is estimated that during FY 17-18 approx 9.5 GW of Solar capacity is added.

The rooftop solar segment is also witnessing steady growth, driven by the uptake of rooftop solar plants in the commercial and industrial sectors. The total rooftop solar capacity is estimated to have reached 1.1 GW in March 2018

The growth, in both utility and rooftop solar segments, can be attributed to a major policy push by the government, favorable global market conditions, successful implementation of the solar parks model, positive investor sentiment and innovative financing mechanisms, and technology improvements

However, the good news is accompanied by certain developments that may have repercussions on future growth. The impending decision on anti-dumping duties and the Directorate General of Safeguards' proposal to impose 70 per cent duty on imported solar cells and modules has also led to major unrest among project developers

Several other challenges continue to plague the sector. The key amongst these are power offtake and payment security, which are considered the biggest risks in scaling up of solar power given the poor financial health of discoms. Further, there is a lack of integrated generation and transmission planning to support solar power projects. Besides, intermittent solar generation makes grid integration a challenge. Apart from this, the 100 GW solar target calls for a huge investment, which domestic institutions may not be able to meet easily.

MNRE's quality control order which will be implemented in July 2018 will encourage better quality products by

Number of members
in the Division : 61 Organizations.

Division Meetings:

- 12th April 2017, New Delhi
- 10th August 2017, New Delhi
- 14th December 2017, New Delhi

Number of Division
meetings : 3 (Three) numbers and
2 Web Meetings

Average Attendance: 12 (Twelve) organizations.

Summary of Division Meetings:

Sector Overview: Total installed renewable energy capacity (including large hydro projects) in India touched



Renewable Energy Division meeting, New Delhi

ensuring that only the manufacturers who comply with laws and regulations will be able to sell in the country but certain clauses still need revision which are not in Manufacturers favor.

Major concern faced by the industry these days is re-tendering and cancellation of the projects which is big deterrent for the investors as it costs them money and time and also the current format in which Reverse Auction is carried out

Objectives and Key Discussion points:

BIS Committee- ET 28, ET 46 and ETD 52: IEEMA members actively participated in the three committees of BIS; ETD 28 for Solar Photovoltaic, ETD 46 for Grid Integration and ETD 52 for Energy Storage and provide key inputs in standards formulation process. Members are of the view that Quality standards are key to Indian Renewable success story in the longer run.

Anti-Dumping Duty on Cells and Modules: DGAD initiated an investigation to probe dumping of solar cells and modules from China, Taiwan and Malaysia. The investigation covers both crystalline and thin-film technologies and will affect all imports making up more than 85% of total cell and module sales in India.

The ADD investigation was carried out by Directorate General of Anti-Dumping and Allied Duties (DGAD). Industry plead before the Directorate of Anti-Dumping & Allied Duties (DGAD) that the domestic industry has been injured by the of import of products from China, Taiwan and Malaysia. The Petition was withdrawn as Exports from China, Taiwan and Malaysia have increased by 33 per cent to 45 per cent during July 2017 to December 2017 and the period under consideration was from 1st April 2016 to June 2017. This massive increase in volumes was enabled by a significant price reduction to dump more material in India. Industry is planning to file new ADD petition with revised period of investigation.

GST impact on Renewables: The goods and services tax act has not had a positive impact on the renewable energy sector as many equipment used to deploy renewable power projects were exempted from taxes

under previous tax regime are now being taxed under various tax brackets. The discontinuation of 80-IA tax benefits also was a blow to the industry as it had posed as a significant incentive for companies and households to invest in the solar energy sector.

There is confusion in the market on how to avail of the concessional 5 per cent GST rate when many of the same components are taxed at higher rates for use in other industries. MNRE is still working to evolve a mechanism in consultation with Ministry of Finance to try and resolve this issue; and net increase in project EPC costs is expected to be around 6 per cent if the issue is not resolved.

The reason for the rate confusion is that it is not clear how to avail of the concessional 5 per cent GST rate – as defined and intended under chapter 84 of the rate schedule for goods – when many of the same components are taxed at higher rates for use in other industries.

For example, transformers used for solar projects are intended to be taxed at 5 per cent but they are taxed at 18 per cent for other applications. In the absence of any specific notification for solar projects, GST rate varies from 18 per cent for capital goods such as inverters and module mounting structures to 18 per cent for cables.

Almost 5 GW of India's pipeline solar capacity is impacted by increase in indirect tax rates under GST and lack of clarity adds to the complexity.

NCEF- The 'carbon tax' of India was seeking to increase the revenue to invest in projects related to renewable resources, due to the decline in investments the model failed as the money could not be used to fund clean energy projects and then compensate states. The carbon tax was first set at RS50/tonne, which later increased to Rs 400/tonne under the National Clean Energy Fund. (NCEF). Goods and Services Tax (Compensation to States) Act, 2017 which has been notified in April 2017, provides that coal cess, along with some other cess would constitute GST Compensation Fund and the same would be utilized to compensate the States for five years for potential losses on account of GST implementation. In 2018-19, no funds will be made available to MNRE through NCEF.

Standard Tender Document and PPA's: It has been observed that in some tenders, that there were some clauses which was favoring imported counterparts on Indian electrical equipment's. It is distorting the market in favor of imported electrical equipment's. Members are of the view that we must advocate for standard tender documents which creates a level playing field and also helpful in avoiding unnecessary confusions. Considering the importance of the subject, same is under discussion within R.E and Storage Division and efforts are made to discuss the same at the highest level of Policy and decision makers.

Revision in PPAs by certain states is also creating ruckus among Manufacturers and developers and the same is discussed with MNRE many a times. MNRE though agree with the arguments shares that since it lies in the powers of State Government, so nothing much can be done from there end.

Chairman/Vice Chairman of the Division: Mr Gyanesh Chaudhary - Vikram Solar took over as Chairman of the division and Mr Atul Arya - Panasonic India took over as Vice Chairman of the division.

Members thanked and appreciated the efforts of Mr Mundra on successful completion of his term as a Chairman of the division and requested his support going forward.

Representations made:

1. Impact of GST on Solar –IEEMA submitted a representation before GST council, ministry of Finance and Ministry of New and Renewable Energy

to consider Renewable in zero or minimum tax bracket.

GST council considered the Solar Plant equipment's in 5 percent tax bracket which is minimum but still there is lack of clarity on what all is included and excluded.

2. Minimum Quality standards for Solar plant Equipment- IEEMA submitted a representation to BIS and MNRE for specifying Minimum Quality parameters for Solar plant Equipment.

Recently MNRE has come out with a Quality Control order which specifies Minimum Quality parameters but Manufacturers are of the view that it still lacks certain clauses, which is being worked out.

3. MNRE and MRERC- IEEMA submitted a representation on MNRE and MPERC on issue sudden changes in policy related to Solar Roof top.

Rotating Machine Division

Industry Size	: INR 7100 Crores estimated
Exports	: INR 1434 Crores (Upto Dec 2017)
Imports	: INR 1392 Crores (Upto Dec 2017)
Number of Members in the Division	: 58 Members
Division Meetings	: 11th May 2018 at IEEMA, Mumbai 20th July 2018 at IEEMA, Mumbai 24th November 2018 at IEEMA, New Delhi 7th February 2018 at IEEMA, New Delhi
Number of Division meetings	: 04 (Four) excluding 4 ELROMA Meeting
Average Attendance:	15 (Fifteen)

Summary of Division meetings:

State of Industry: The government is investing more in infrastructural activities like Agriculture, Power, Steel, Water and Irrigation, Infrastructure, Dedicated rail corridors (Construction). In addition Bharat VI will have expansion at most of the refineries. This is boosting



demand for Electric motors. There is a constant rise in this industry from past 2-3 years and a lot more is coming in the next five years. The revenue earned by the exports of electric motor is also growing at a steady pace.

Main growth drivers of Indian Electric motor market are:

- Growth in Infra, Cement, Water & Irrigation.
- Government focus on EV's is a plus for Motor Industry
- Various initiative in agro sectors will boost demand in this segment) these motors are used all over India for irrigation purpose
- Domestic use is increasing with the increase in population.

In an era that has been consistently reiterating the significance of emission reduction, electric motors industry has indeed been occupying a pivotal stance in the global automotive space. Having recognized that fossil fuels are soon on their way to extinction, potential

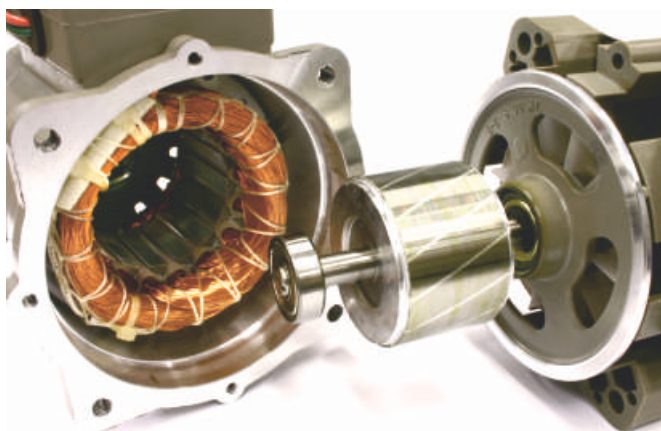
contenders across the global industrial realm have been scrupulously planning a future thriving on electricity sans fuel deployment. This pointer effectively justifies the hoopla generated around subjects such as reduced power consumption, energy conservation, optimized electricity usage, and the like. Reliable estimates convey that globally, electricity usage is likely to cross the astounding frontier of 35 trillion KWh by 2035, of which has been projected to be consumed by electric motors. It is subsequently quite coherent that with the robustly increasing demand for electricity from every industrial domain, electric motors industry size is likely to depict an ascent.

Objectives/ Key discussion points & achievements

- **IS 12615 Mandatory:** IS 12615 Quality Control Order got implemented from 1st January 2018. IEEMA Rotating machines division members have played a pivotal role in promoting awareness, clarifying issues, discussing with key stakeholders which will not only help making India Energy Efficient nation but also promote India globally as a leader in Energy Efficient products.

Members also deliberated on the revised standard and with rigorous hard work have finally conclude the revision in IS 12615, which is under publication with BIS.

- **Development of IE4+ Motors:** IEEMA RM members in partnership with various Educational Institutions and Government of India have embarked on a mission to design and build IE4+ motors in India. This is the first time that a partnership programme for development of Technology has been initiated with number of IEEMA members being involved.
- **Chairman/Vice Chairman-** Dr Praveen Vijayraghavan took over as Chairman of the division and Mr Atul Jugade from Siemens took over as Vice Chairman of the division.



Rotating Machine Division meeting, Mumbai

Members congratulated and applauded the time and effort put in by Mr Ashok Kulkarni in making the R.M division as the most active division of IEEMA. Various new initiatives and new members have been added during Mr Kulkarni's tenure as Chairman of the RM division.

- **ELROMA 2017-** Concluded in September 2017, with support and active participation of Rotating Machines division members, ELROMA 2017 was a huge success and is receiving accolades from all key Stakeholders.

Chief Guest of the Conference was Dr. R. Chidambaram, Principal Scientific Advisor to Government of India. Good Participation from International Delegates and 5 International Papers was presented.

Brief stats are as under:

1. Total papers Received- 90+
2. Paper Presented during conference- 30+
3. Best paper Award given in each Session
4. Delegate count- 290+
5. Presence of complete value chain of Electric Motor Industry including Manufacturers, Consultants, Raw Material Suppliers and traders)

Representations made:

- Representation submitted to Department of Industrial Policy and Promotion and Department of Commerce regarding Mandatory IS 12615.

In response to subsequent discussions, the date of implementation is amended as 1st January 2018 which provides the necessary relief to all the motor manufacturers.

- Representation submitted to BIS regarding Changes required in Scheme of Testing and Inspection document

In response to the subsequent discussion, necessary guidelines are issued by BIS where some of the mandatory requirements are relaxed.

Smart Grid Division



- Number of Members in Division : 45
- Divisional Meeting:
 - 16th May 2017
 - 21st August 2017
 - 27th December 2017
 - 6th February 2018
- Number of Divisional meetings : 4 (Four)
- Average Attendance : 13

Summary of division meetings: Objectives key Discussion points and achievement

- The Division reconstituted the technical committee to work on technical aspect of the Smart Grid and help support Smart Grid to flourish in India
- 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 a growth of 20% in the Division membership, players from different industry segment like RE, Storage etc have been brought on board, and the division is gradually encompassing all key stakeholders of the ecosystem.
- The Division actively participated in the meeting on NSGM framework for Implementation Document and gave its inputs, The meeting was chaired by Dr. A.K Verma, Joint Secretary Distribution, Ministry of Power, Government of India.

- The Division Invited Director NSGM for an interactive session with Members where he apprised the members about the vision and mission of NSGM and how expertise of IEEMA can be leveraged in terms of capacity building of DISCOMs
- Throughout the year Division was actively engaged with National Smart Grid Mission (NSGM) and identified the area of working together in terms of education the utilities regarding Smart Grid technologies.

IEEMA Smart Grid Division Mission:

Enabling Indian Electricity infrastructure to become resilient, sustainable and secure

Action Plan - To support the utilities and the government in their respective smart grid initiatives IEEMA Smart Grid division has formed Focus Groups in critical areas, which need immediate co-operation amongst the various stakeholders to enable realization of Smart Grid Vision and Roadmap of Ministry of Power. The goal is to reach out to all the direct and indirect stakeholders in various government departments, research and academic institutions, industry associations, regulators and standards developing organizations to have inclusive deliberations and actionable insights to resolving the various challenges being faced by all the stakeholders in their respective endeavors to make our nation 'smart green & secure'. Initial few Focus Groups:

- Smart Grid Architecture and Framework
- Smart Grid Interoperability, Standards and Harmonization
- Unified Communication Architecture
- Network and Cyber Security
- Grid Automation and Resilience
- Renewable Integration
- Energy Efficiency
- Electric mobility
- Policy and Regulations
- People, Processes and Systems
- New challenges



SME Division



Chairman : Mr. Ashutosh Jatia, Sr. President, CJI Porcelain Pvt. Ltd.

Co-Chairman : Mr. J.G. Kulkarni, Past President, IEEMA

Vision:

Assist SMEs in scaling up to become world class companies

SME Division Membership

No additional charge to IEEMA Members for subscribing SME Division

Summary of Division meetings: Objectives/ Key discussion points:

Problems being faced by MSMEs and their Solutions:

- **Finance** – MSMEs face problems in availing finance at cheap rates in a timely manner and with minimal collateral. This is often due to the lending institution's dis-interest in a SME's business and lack of education of the SME entrepreneur. SME Division is focusing on partnering with Lending Institutions and organizing Knowledge sharing sessions for the members to enhance their negotiation skills.
- **Domestic Marketing** – MSMEs face challenges in getting a bigger share of the business in the domestic market either due to stiff competition or high entry barriers (eg. Stringent Pre-qualification norms). SME Division is focusing on organizing

Vendor Meets with major customers and SMEs to bridge the gap and facilitate business.

- **Exports** - are challenging for MSMEs due to the distance and cost involved in developing export customers. SME Division is focusing on educating SME's into tapping ASEAN and SAARC countries and understanding the Duty regime.
- **Non-adherence to Govt. Schemes** – Govt. has floated various schemes for promotion of MSMEs which are not being adhered to in totality. SME Division has taken it up with the Ministry of MSME and is following up.
- **Raw Material** – Timely and cost effective availability of raw material is a challenge for most SMEs in the absence of Supply chain functions in their organisations. Moreover, small volumes make the sourcing more expensive. SME Division is focused on finding out ways and means to help SMEs make their sourcing more efficient.
- **Enhanced Analytics within IEEMA** – will be helpful in understanding the needs of MSMEs better and will also provide help in formulating tailor made programmes to address the pain points of MSMEs

Representation to MSME Ministry

Representation to Ministry of MSME was made to showcase the problems faced by Electrical Equipment SMEs in dealing with Power Utilities/DISCOMs. It was prepared on the basis of inputs collected from members on difficulties faced while tendering with PGCIL, NTPC, Railways and other utilities.

Meeting with Mr. Sudhir Garg, Jt. Secretary, MSME

IEEMA Members interacted with Mr. Sudhir Garg, Jt. Secretary, MSME at ELECRMA-2018 venue at Noida on 13th Feb 2018. During the discussion members informed the pain areas of MSMEs and as a reply Mr. Garg and his Team explained the Schemes which are available to support MSMEs. Mr. Garg had invited members to his office for further discussion.

Meeting with SIDBI

Meetings were initiated with Small Industries Development Bank of India (SIDBI), Mumbai to explore avenues of working together for the benefit of the SME's in IEEMA.

Meeting with Lending Institutions

Discussions / interactions are going on with Lending Institutions to explore avenues of working together for the benefit of the SME's in IEEMA.

Divisional Events / Conferences :

- SME Conclave held on August 6, 2016 at Hotel

Ramada, Navi Mumbai

- SME Conclave held on September 26, 2016 at New Delhl.
- SME Conclave on the theme “Enabling Effective Business Growth & Success” is being held in Vadodara on February 17, 2018

Short term & Long term Objectives / Action Plan for the Division :

- Increase in the No. of SME Division Members
- Minimum of 2 events to be hosted in a year

- Minimum 2 knowledge sharing sessions on key topics to address pain points of MSMEs
- Explore partnerships with relevant stakeholders to address pain points of MSMEs
- Showcase ‘Success Stories’ of MSMEs
- Increase engagement with Ministry of MSME with the aim of driving policy
- Representation to RBI / concerned authorities on financial challenges and problems faced by SMEs while doing business

Surge Arrester Division

- Market Size: INR 46 Crores (April – Mar 2018)
- Imports: INR 59 Crores (April – Mar 2018)
- Number of Members in the Division: 32organizations (including Surge Arrester Manufacturers, Manufacturers of accessories & component, EPC Contractors and others)
- Division Meetings: 7 June 2017
19 September 2017
7 December 2017
21 February 2018
- Number of Division meetings: 04 (Four)
- Average Attendance: 07 (Seven)

First quarter of the year was found to be good in terms of OBP and state of the industry was found to be good. Growth in the market was observed with a huge competition though the product prices are falling. However industry reported that the payments are bad, both with Utilities and EPC contractors.

Since post July 2017, GST was implemented, the industry faced some problems in execution of orders and also finalization of orders. The projects were delayed due to new tax regime in place.

It was observed that gradually polymer industry is growing as compared to porcelain and the ratio of polymer to porcelain was observed to be at 45:55.

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

- 1) CPRI Testing
- 2) Changes in specifications – matters discussed in the BIS

1.0) CPRI Testing:

Industry observed over a period of time that there are frequent changes in specifications of arresters from Utilities, which often makes it compulsory to get the product type tested which again once again involves a huge cost. So division focused on this activity of discussion on CPRI test gaps/issue and the way to resolve it through a representation on IEEMA forum. Members worked on the ratings of SAs and made a comprehensive document on the subject including repetitive charger transfer, watt loss values, creepage distance, third harmonics, the insulation levels to be adopted, etc.

The Division is glad to report that M/s CPRI has confirmed having all test facilities as per the latest IEC specification.

2.0) Changes in specifications- BIS Electro technical Committee ET 30

Members of the division had observed that that frequent changes in specifications from Utilities often make it compulsory to get the product type tested. This incurs huge cost which needs to be considered. Members of the division met BIS ET 30 Committee officials on 22 February 2018 and discussed with them matters related to minimum required arrester specifications for long term stability, acceptance test, etc. Members also opined that the standard and application guidelines for SA being made by BIS should be equivalent to an international standard. The IS specification in line with the latest IEC has been adopted in toto.

3.0) Utilities trainings:

IEEMA started with the new initiative of delivering technical trainings at Utilities, similar on the lines of DRUM programmes which used be conducted earlier. Members of the division agreed to build pool of technical experts for this purpose and also develop technical training modules.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	FY 16-17	FY 17-18	% Change	FY 16-17	FY 17-18	% Change
Surge Arresters				Porcelain	Polymer	
Domestic						
LT & Distribution - Upto 30 kV	368716	560735	52.1	128241	161622	26.0
Upto 30KV Station Class	38337	41245	7.6	59995	85089	41.8
33KV to 236 kV	20123	20074	-0.2	12081	10024	-17.0
217 kV to 390 kV	881	801	-9.1	763	709	-7.1
Above 390 kV	0	0		183	364	98.9
Export						
LT & Distribution - Upto 30 kV	4117	198	-95.2	47027	60637	28.9
Upto 30KV Station Class	2622	3530	34.6	126879	104279	-17.8
33KV to 236 kV	7720	1076	-86.1	11270	10433	-7.4
217 kV to 390 kV	121	103	-14.9	8	89	1200.0
Above 390 kV	0	0		0	0	
ToTal	442697	627762	41.8	386442	433196	12.1

T&D Projects Division



- TLT Industry Size : INR 10,800 Crores
- Exports : INR 1,612 Crores (estimated)
- Imports : INR 72 Crores (estimated)
- Number of Members in the Division : 145 organizations (including EPC Contractors and others)
- Division Meetings : 13th April 2017, Jaipur
23rd June 2017, Mumbai
18th August 2017, Delhi
27th October 2017, Kolkata
19th January 2018, Delhi
- Number of Division meetings : 05 (Five)
- Average Attendance: 29 (Twenty Nine)

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

• Impact of GST and its effect on EPC Projects

Introduction of GST was one of the major issues for IEEMA members as the impact of GST on existing pre GST contracts was quite huge. The rate of 28% on some fo the items was also matter of big concern. IEEMA represented the matter to the Government, both directly to the Ministry of Finance and indirectly through other concerned Ministries, requesting the GST Council to lower the GST rate on these products from 28% to 18% giving suitable justifications product wise.

IEEMA had several meetings with Government authorities. Through concerned efforts of IEEMA Secretariat and members, GST rates on most of the electrical items are 18% or below.

Further, IEEMA also made representation to Power Grid regarding impact of GST on contract awarded prior to the date of implementation of GST and through various meeting resolved the issue with Power Grid to the satisfaction of all its members. Only the matter relating to GST on Freight & Insurance remains unresolved. IEEMA continues to have communication with Power Grid to resolve this issue also very soon.



T&D Division meeting, New Delhi



T&D Conclave-2017, New Delhi

Further, some of the members raised a point that 12% GST rate applicable to Government projects should also be applicable to jobs awarded under R-APDRP, IPDS & DDUGJY projects as these are also Government projects. Division requested Taxation Committee to take legal opinion on the matter. After obtaining legal opinion, Taxation Committee informed that 12% GST shall not be applicable to these projects undertaken by IEEMA members and therefore the matter was dropped there.

• **Discussion on Reverse Auction**

Members of the Division had great concern about the impact of Reverse Auction on the pricing of the projects. Matter has been discussed in every Division Meeting. Reverse Auction is presently applicable in Power Grid Projects and a representation has been submitted to Power Grid.

Further, members requested IEEMA Public Policy Cell to represent this subject to the concerned authorities. IEEMA is now pursuing the matter with MoP and other related Ministries.

• **Study on addressing Transmission bottlenecks by E&Y:**

Members discussed about the challenges faced by the EPC industry in executing the transmission and sub-transmission line and Substation projects.

Further, Division decided to commission a detailed study through an independent, top level consultant (knowledge partner) on the various held up transmission line and substation projects in the country, with an intent to take up the matter at the highest level in the Government, with the support of Ministry of Power (MoP).

E&Y was finalized as a knowledge partner for the study, based on their better technical capabilities. It was decided to carry out this study in consultation with the members contributing towards this activity. Further, inputs will be sought from CPSUs and Utilities of 15 states. The study is currently in progress.

After completion, E&Y will prepare a set of recommendations for all key barriers across the Transmission sector, based on discussions with the government agencies and equipment suppliers/EPC

contractors. The recommendations shall be broadly categorised under:

- a. Policy interventions: focusing on existing guidelines/policies to promote transmission capacity additions including review of standard bidding documents, right of way guidelines, environment approvals etc.
- b. Operational interventions: in terms of the buyer-implementer operational relationships, reporting frameworks, payment terms and other contractual conditions hindering timely execution.

The exercise also includes a stakeholder consultation workshop for taking inputs on the identified barriers and proposed recommendations. The consultation shall include senior ministry officials, relevant government agencies, EPC contractors, funding agencies and other relevant stakeholders.

A committee of several members was constituted under the convenership of Sh. Purnendu Chaubey. IEEMA along with Convener pursued for getting non-financial support for the study from Ministry of Power. The same is still to be received. Presently, the study has completed Phase I (“interaction with EPC Contractors”) of the study and progressing towards Phase 2 (“interaction with State Utilities”).

• **Standard Terms & Conditions for Turnkey Transmission, Distribution and Sub-Station Projects**

In past, members devised a model document on standard bidding document for EPC contracts for adoption by all utilities (CPSUs & SEBs). The matter was presented to the Ministry of Power for consideration.

Ministry of Power advised IEEMA, Powergrid and CEA to discuss the points which were identified by IEEMA in the proposed model contract document to facilitate early contractual closure of turnkey power transmission, distribution and sub-station projects and avoid protracted delays in execution and completion of projects.

Subsequent discussions were held with Powergrid and CEA wherein IEEMA was given a further task to prepare standard formats for key execution activities addressing the debated issues, which can be incorporated in the contract document as an integral part of the contract agreement governing the provisions to ensure execution without interruption. The following formats were decided:



1. Format for Sub-station activities
2. Format for Transmission activities
3. Diversion format for equipments
4. Kick-off format

Subsequently, requisite formats were formulated after a detailed exercise by the Committee and have been submitted to Powergrid, MoP and CEA for further deliberation.

IEEMA is now pursuing the matter with MoP.

• **Discussion – Conference on Overhead Lines**

Secretariat informed members that IEEMA is planning to create a new technical conference on “Overhead lines”. This conference will cover products such as Transmission Line Towers, Conductors, Insulators and Hardware & Accessories.

The Conference on Overhead Line will be held during first half of 2019.

• **Divisional Events / Conferences:**

T&D Conclave – 2017

The 11th T&D Conclave was held on 14th December

2017 in Delhi. Attended by more than 325 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 witnessed the presence of eminent personalities like Divine Sister Shivani of Brahma Kumaris, Dr. Rajendra Singh, Waterman of India, Mr. S P Bharill, Leadership Guru, Mrs. Anuradha Gore, mother of martyr Capt. Vinayak Gore, Mr. S. K. Soonee, former CEO of POSOCO, Prof. Sukumar Mishra, IIT Delhi, Dr. Rahul Tongia, Fellow at Brookings India and Dr. Rahul Walawalkar, IESA. The 11th Conclave got support from 35 Co-hosts, the largest congregation of sponsors or Co-hosts ever seen in any IEEMA event to date.

Representations made:

- Representation submitted to concerned authorities to consider 12% GST applicable to all projects under R-APDRP, IPDS & DDUGJY.
- Representation submitted to Ministry of Power, CEA and Powergrid on Standard Terms & Conditions for Turnkey Transmission, Distribution & Sub-station projects.

Winding Wires Division



• Industry Size	: 220000 MT Per Annum
• Imports	: 10000 + MT Per annum
• Exports	: 12000 MT Per annum
• Number of Members in the Division	: 26 Organizations
• Division Meetings	: 15th June 2017, Mumbai 1st March 2018, Mumbai
- Number of Division meetings	: 02 Nos (Two)
- Average Attendance	: 05 Nos.(Five)

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

Indian Industry

Winding wire industry in India consists of mainly small and medium scale units except a few large scale units. In last few years there has been modernisation/enhancement in production capacities resulting on overall enhancement in installed capacities. The modernisation has put quality of Indian manufacturers at par with international quality.

Growth of winding wire sector is directly linked to power generation sector and there has been considerable



Winding Wire Division meeting, Mumbai



addition in the generation sector since last few years. The introduction of energy efficient pumps in agricultural sector and replacement of old ceiling fans by 50 million new energy efficient fans, this industry is expected to see rising demand.

The number of FTAs and other trade agreements have permitted preferential rate of import duty increasing imports of electrical products. In absence of domestic level playing field for domestic manufactures, growth rate is affected.

State of Industry:

The first quarter gave an impression that huge demand was expected in the future because of upcoming segment of electric vehicles expected to increase significantly over the next ten years with the improving technology. Since electric vehicles use a substantial amount of copper in their batteries and windings, the demand is expected to rise.

The industry faced some payment issues during the phase of implementation of GST as expected the same was resolved and state of the industry saw improvement post GST. Power segment, Motors industry segment were also observed to be doing well.

The big threat observed by the industry was huge import of small coils from China. Industry had a feeling that financial crunch is expected due to the scams happening and industry may face financial challenge for next one year. This may restrict growth of the industry.

Special representation on GST

IEEMA has also represented the issue of higher GST rate to various Govt. Department and ministries on various electrical products including winding wires. Chairman and Members effort in bringing down the GST rate from 28% to 18% on Winding Wires

Compilation of data - Enameled copper strips, Continuous transposed conductors, Paper insulated copper conductors

Industry felt the need to have separate data for Copper and Aluminium. Currently IEEMA members are contributing about 60% of the entire WW industry production & the rest is by few organized players & large fragmented unorganized sector hence there is a need for such data collection. Accordingly members of the division prepared the format for collection of data.

Issues regarding Indian Standards

Members identified following issues regarding the standards:

1. BIS has removed IS 13730-34 (Polyester coated round copper wire Class I30L). How BIS can help in implementation of this change.
2. The industry also proposed BIS to remove IS 13730-45 (Polyester coated round copper wire Class I30). BIS have three licenses issued for under this part number. The industry may suggest BIS to upgrade those licenses to high Class and Make IS 13730-45 obsolete. IEC has already removed this class.
3. BIS is still continuing with low heat shock class of IS 13730-9 (Polyester enamelled round aluminium wire, class I30). IEC has already withdrawn those parts long back. BIS has already came up with Modified Polyester enamelled round aluminium wire, class I55. Members may suggest BIS to make IS 13730-9 obsolete.

Representations 2017-18

Summary

A summary of representations made by IEEMA during the year with the aim of addressing issues and concerns for the electrical industry are enumerated below:

IEEMA PRE-BUDGET MEMORANDUM 2018-19

IEEMA collected inputs from members on pre-budget issues & suggestions of the industry. The Economic & Taxation Committee deliberated on these issues and represented 'IEEMA Pre-Budget Memorandum 2018-19' to the Union Ministry of Finance, the Department of Heavy Industry and the Department of Industrial Policy & Promotion, Government of India.

A brief summary of the major issues in IEEMA Pre-Budget Memorandum appears below:-

A. CUSTOMS DUTY:

- **Customs Duty Exemption on CRGO and Amorphous Alloy Ribbon**

CRGO (Cold Rolled Grain Oriented) Steel (HS Code 72251100 and 72261100) and Amorphous Alloy Ribbon (HS Code 72269930) are primary raw materials in the manufacture of transformers.

Both these input raw materials are energy efficient steels and reduce losses. However, neither of these material is manufactured in India and the entire requirement is met by imports.

Basic Customs Duty on CRGO Steel is 5% and on Amorphous Alloy Ribbon is 10%. Therefore, the imports duty on these significant raw materials, which have to be necessarily imported, is dis-incentivizing energy efficiency.

IEEMA Recommended: Import of CRGO and Amorphous Alloy Ribbon be allowed to be imported at NIL duty till such time the country achieves self-sufficiency in their production. Moreover, following inputs used to manufacture CRGO, also attracting 5% Basic Customs Duty, should be brought down to NIL:

- Hot rolled annealed and pickled coils for production of CRGO
- Hot rolled coils for production of CRGO
- Cold rolled full hard for production of CRGO
- Cold Rolled MgO coated steel for production of CRGO

- Cold Rolled MgO Coated, annealed steel for production of CRGO

- **Adverse Impact on Domestic Manufacturing Sector Due to Basic Customs Duty Concessions under Chapter 98**

Various finished products of Indian electrical industry largely fall under Chapter 84 and 85 of the Customs Tariff Act, which attract a basic customs duty, ranging from 7.5% to 10%. However, under the Project Imports (HSN Code 9801), the same finished products are also imported at a concessional basic customs duty of 5%.

There is a differential of 2.5% - 5% in the basic customs duties. Imports of electrical equipment, under HSN Code 9801, is therefore a clear disadvantage to the domestic industry. Significant imports of electrical equipment are taking place under Chapter 98.

The project imports regulation was notified in the year 1986 because of the reason that the domestic industry did not have sufficient capacities during that time. However, today the industry has sufficient capacities, and is operating at about 60 - 70% of its capacities due to significant imports, especially under Chapter 98.

IEEMA Recommended: Provision of concessional basic customs duty on imports, under Chapter 98, should be removed. Alternately, products imported under Chapter 98 should attract normal basic customs duty applicable on each product.

- **Request for Reduction in Customs Duty on Import of Primary Aluminium Metal**

Over 50% of Aluminium is used as a raw material in manufacturing of electrical equipment, which attracts a basic customs duty of 7.5%, under Chapter 76. Aluminium is primarily used for manufacturing of the finished products, such as Conductors (HSN Code 7604 and 7614) and Cables (HSN Code 8544). These products also attract basic customs duty of 7.5%.

This is a case of duty anomaly and Indian Conductor and Cable industries are facing stiff competition in the market against imports. A reduction in customs duty on import of Aluminium will be productive for revival and growth of the economy affecting common man w.r.t. affordability, downstream industries, forex to the government, government mandate of 24X7 Power to All, employment and above all the Government's Make in India initiative.

IEEMA Recommended: Reduce the Basic Customs Duty on Primary Aluminium Metal from existing 7.5% to 5%, under Chapter 76.

- **Duty Free Imports of Electricity Meter Parts**

Electricity Meter manufacturers are paying basic import duty (7.5% to 10%) on major parts i.e. switch, relay, battery, Inductors, Magnetic/ Ferrite core, cable assemblies, adapters, buzzers, plastic & metal seals. This import duty makes Indian Electricity Meters costlier &

uncompetitive in comparison to same manufactured in other countries, especially China.

For items like backlight, the general chapter heading (8541) has zero basic customs duty. But parts that are used in meter manufacturing, the same are being considered under HS Code 90289010 and are subject to basic import duty of 7.5%.

Raw Material with ITC HS code	Customs Duty %
Brass Strips & Coil (ITC HS code 74092100)	5%
Phosphor Bronze Strips & Coil (ITC HS code 74093100)	5%
Copper Strips & Coil (ITC HS code 74091100)	5%
Polymide Chips (ITC HS code 39081010)	10%
Polymide Chips (ITC HS code 39081090)	10%
Polypropylene & Polymer (ITC HS code 39021000)	10%
Polymer Resins (ITC HS code 39042290)	10%
Lubricating Oil (ITC HS code 27101990)	10%
Cold Rolled stainless steel strips & coil (ITC HS 72202090)	7.5%

IEEMA Recommended: Since the government has embarked on the Deendayal Upadhyaya Gram Jyoti Yojana, it’s imperative sectors such as electronic meters are given an impetus so as to ensure that costs become economical for the overall success of the initiative. Industry recommends zero basic custom duty for all electronic components (against chapter heading 90289010), so as to, facilitate overall reduction in price and also at the same time, increase export competitiveness.

- **Inverted Duty Structure in Cable Terminals and Connectors**

Exemption Notification No. 25/2005 – customs, dated 1st March 2005, enforces nil customs duty on Cable Terminals and Connectors (ITC HS code 8536)

The basic customs duty on raw materials for Cable Terminals and Connectors (ITC HS code 8536) are as follows:

This is a case of inverted duty where the finished product becomes import attractive making the domestic manufacturers uncompetitive. The Customs Tariff chapter Sub heading No. 8536 as mentioned in Notification No. 25/2005 is a very broad & wide classification and covers connectors encompassing a very wide range of products and applications and imports of such goods falling under 8536 is approximately INR 6,000 crore per year.

Moreover, majority of the companies producing goods, falling under 8536, are small and medium enterprises which are not in a position to compete and sustain the cheaper imports of such goods from low cost countries.

IEEMA Recommended: Keep the finished products, falling under Chapter heading 8536, at 10% basic customs duty by withdrawing Zero Duty imports, as per Notification No. 25/2005 – customs, dated 1st March 2005.

- **Change in Unit of Measurement for Certain Tariff Items**

Under the Customs Tariff, the units of measurement of many Tariff entries of engineering goods have been changed from “kg” to “u” and from “kg” to “m”. This is welcome change and conversion of unit of measurement is required for a few more tariff lines.

IEEMA Recommended: Unit of Measurement for tariff items under 85371000, 85372000, 85381090, 85389000 and heading 8480 should also be changed from from “kg” to “u”.

B. GOODS AND SERVICES TAX:

- **Electricity to be Included within GST**

Electricity is not subsumed in Goods and Services Tax (GST) and the States continue to levy electricity duty on sale of electricity.

All power companies purchase electrical products like generation equipment (boilers, turbines, generators) and transmission & distribution equipment like transformers, wires & cables, conductors, transmission line towers, switchgears, electrical panels, capacitors, energy meters, instrument transformers, surge arrestors, insulators, etc. on which credit of GST paid on purchase is not available to these companies forming part of their cost.

Also, in case of works contracts executed in the nature of inputs used for installation and operations of power plant, power transmission and distribution; EPC contractors charge GST to the power plant, transmission and distribution companies. As electricity is outside the ambit of GST, credit of GST paid by these power companies to the EPC contractors is not available, hence it is an additional cost to the power companies and the ultimate consumer of electricity.

IEEMA Recommended: Electricity be subsumed within the scope of GST.

- **Impact of GST on Deemed Export Projects**

Projects under Deemed Exports, which are under ICB and funded by Multilateral / Bilateral Agencies / Funds, were earlier exempted from payment of Excise Duties, through Excise Duty Exemption Certificate. Presently under the GST Law, there is no provision for Deemed Export and therefore supplies to such projects attract GST at the rate of 18% or 28%.

Since the impact of GST is very high, supplies to all these projects have come to stand still and resulting in delay in completion of the project, loss of price variation to suppliers / contractors, cost overrun, stress on cash flow for the projects etc.



Workshop on Goods & Services Tax, New Delhi

IEEMA Recommended: Government should notify exemption / refund of GST for deemed export projects at the earliest.

- **Reverse Charge on Goods Purchased From Un-registered Dealer**

There is reverse charge mechanism, on purchase of goods by a registered dealer from an unregistered dealer, by paying GST and taking input tax credit.

This is merely transfer of funds from cash to input tax credit. Hence, on one hand reverse charge is not any revenue increasing and creating undue works load on businessman, unnecessary explanation to department, increasing finance and work cost, blockage of funds.

Recently, Government had deferred applicability of reverse charge mechanism on purchase from un-registered dealer till 31st March, 2018. This means Government also accepted that this is creating additional administrative burden, statutory compliances.

IEEMA Recommended: Provision of Reverse Charge Mechanism, on purchase from un-registered dealer, should be removed permanently.

- **Payment of IGST or CVD to Regularize Cases of Advance / EPCG Licenses in Cases of Shortfall in Export Obligations**

During the pre-GST period, there was exemption of all import duties (BCD, CVD and SAD etc.) against Advance / EPCG Authorisation. In case there was short fall in fulfillment of export obligations, the authorization holder had to pay the import duty, with interest, in proportionate to short fall in quantum of export obligations, in order to regularize the cases of Advance / EPCG Authorization. In such cases, manufacture exporters were eligible for CENVAT Credit for paid CENVATABLE Duties like CVD and SAD, as per Excise Rule.

However, presently under GST, in case an exporters needs to pay duties like CVD and SAD in proportionate to

shortfall in export obligations for Advance Authorisation / EPCG obtained in Pre GST era, the credit of CENVATABLE Duties like CVD and SAD, are not available since there is a change in the tax system.

IEEMA Recommended: Government should clarify wherever exemption of CVD and SAD availed in pre-GST regime under Advance / EPCG Authorization and due to short fall in quantum of export obligations the manufacture exporter / authorization holder has to pay / surrender duty benefit availed or he is liable to pay IGST against CVD and SAD along with applicable interest.

In case, the entire Import Duty is paid in Pre-GST period, what is the mechanism for a manufacture exporter to avail CENVAT Credit, which was available during the Pre-GST period.

- **Reduce High GST Rate of 18% on Testing, Calibration and R&D Services**

Present GST rate on Testing, Calibration and Research & Development Services (falling under Sl. No. 36 "All other services not specified elsewhere") is at 18%. Previously these services attracted a Service Tax of 15%.

Generally, investments in Research & Development by various companies are low. If GST rate on this type of testing charges are reduced, which are substantial part of Research & Development and innovation activities, investments in these fields will be improved.

IEEMA Recommended: GST rate of 18% on Testing, Calibration and R&D Services should be lowered from 18% to 5%. This will encourage the manufacturers to go for more testing and R&D services, leading to improvement in quality of products and fillip to "Make in India" initiative of the Government of India. Since the manufacturers are entitled for input credit of the GST charged by the Indian Laboratories, it will have nil revenue impact to the Government.

- **High GST Rate on Supplies Made for Setting Up of Solar Power Plants**

Following GST rates were defined for Solar Power generating Projects:

Goods Schedule - Notification No. 1/2017 dated 28th June 2017

GST Rate on Solar Power Generating System – 5% as defined in Schedule-I for Goods under Serial No. 234 Item no. (c) of Chapter 84 & 85.

Services Schedule - Notification No. 11/2017 dated 28th June 2017

GST Rate on Services – 18% as defined in Sl. No. 3 Item No. (ii) - Composite Supply of Works Contract as defined in clause 119 section 2 of CGST Act.

Since the Solar Power Generating Projects involve Design, Engineering, Procurement & Supply, Construction & Erection, Installation, and Commissioning, the same falls under 'Works Contract' as defined in clause 119 section 2 of CGST Act.

Due to this ambiguity, all such Solar Power Generating Projects attract 18% GST, instead of 5% GST, increasing the cost of Solar Power Projects.

IEEMA Recommended: GST rate for Composite Supply of Goods & Services towards setting up of Solar Power Plants should be separately defined in the Notification no 11/2017-CGST, dated 28.06.2017) of GST at 5% for Solar Power Plant Developers and needs to be notified through a Corrigendum in continuation of Corrigendum dated 27.07.17 (A) In Schedule I -5%, after (vi) to be inserted as per below –

(vii) In S. No. 234, in column (3), after “Following renewable energy devices and part for their manufacturer”, insert – “ / Supply made for setting up of following Power Plant”. Also, define the list of items required for making up a complete Solar Generating System.

Also, suitable amendment should be done in Sl. 3 under heading 9954 by adding Composite supply of Works Contract for Solar Power Generating Projects taxable @ 5% GST

- **Anomalies in GST Structure for Insulator Manufacturing**

Natural Gas is an efficient and environment friendly fuel and a key cost for manufacturing in several parts of the country, including Gujarat. Lack of input credit of GST for Natural Gas, increases the tax burden and creates an anomaly in cost across states.

IEEMA Recommended: In view of Natural Gas being the key input for manufacturing (~12% of cost), credit for Natural Gas should be allowed under GST. Since the end consumer of insulators in India is mainly State/Centre Utilities, it will help reduce the price of the insulators.

- **Applicability of Exemption Notification of GST on Freight**

As per Notification No. 9/2017 of Integrated Tax Rate, under Sl. No. 19, heading 9965:

Services by way of transportation of goods –

(a) by road except the services of—

(i) a goods transportation agency;

(ii) a courier agency;

(b) by inland waterways.

Are exempted under GST.

A number of Government bodies have been issuing separate contracts for freight charges for claiming this exemption.

IEEMA Recommended: GST Council should provide a clarification on applicability of above mentioned Notification, as to:

- Whether freight charged by local tempos or small transporters, who normally do not issue any consignment note are exempted or even high value freight service given by big transporter, without consignment note, is also exempted.
- Whether freight charged by supplier of goods, under a separate contract for transport of goods to the buyer place on his own account is exempted as per the above notification.

Or, this exemption should be withdrawn as this is dispute prone.

- **GST on Advance Payment on Services**

As per GST Rules, GST is payable on receipt of advance payment in relation to services. No credit of GST paid on advance is available to the customer. GST paid on advance will be adjusted after actual supply of services by the Service provider.

Since Works Contract is defined as a 'Service' under GST Law, which involves transfer / supply of material also, so, advance payment against Works Contract will attract GST.

There are various issues like long contracts, multiple dispatch points in various States, Order cancellation etc. All these leads to increase in statutory compliances, extra cash out flow, blockage of funds etc., leading to dissatisfaction.

The GST Council has already relieved GST on advance payment on goods, which is a welcome measure.

IEEMA Recommended: GST Council should extend this relief to other sectors of the industry from payment of GST on advance payment on supply of service OR allow the input credit of GST paid on advance.

- **Definition of Immovable Property under GST**

As per the definition of Works Contract, under sec 2 (119) of Central Goods & Service Tax Act, 2017, Works Contract means a Contract for building, construction, fabrication, completion, erection, installation, fitting out, improvement, modification, repair, maintenance, renovation, alteration or commissioning of any immovable property wherein transfer of property in goods (whether as goods or in some other form) is involved in the execution of such Contract.

However, an Immovable Property has not been defined anywhere in GST Legislation.

There are Contracts taken care by various Electricity Boards (Discoms) regarding Supply, Installation, Testing and Commissioning of Sub-Station, Undergrounding Cable, Overhead Transmission Lines etc. across India. Wherein Contracts for Transformers and Sub-Station Packages, some Discoms have defined them as movable in nature and others as immovable.

For example, a Sub-Station Project can be treated as a movable property, as the Transformers can be moved, if required. Therefore, it is difficult to decide for such type of contracts, whether the whole project should be treated as a Works Contract or not. However, the basic objective of a Sub-Station Project is to create an immovable property, since the Sub-Station is designed to be in use for a life-long period.

Since, the objective of Statute is to treat these Turnkey Contracts, where Contractor is supposed to supply, as well as, do erection work, leads in to an immovable property by nature, as a Works Contract.

IEEMA Recommended: GST Council should define 'Immovable Property' and also clarify which type of projects would qualify for Works Contract OR can create a separate entry like Sub-Station Project, Cable Laying Project, Metro Projects, Railway Projects etc. where both supply and erection are involved.

- **List of Items Covered under Renewable Device and Other Parts**

Under Notification No. 1/2017, dated 28th June 2017, of Integrated Tax (Rate), the following have been put under 5% GST, as per Schedule – I, under SI No. 234:

Following renewable energy devices & parts for their manufacture

- Bio-gas plant
- Solar power based devices
- Solar power generating system
- Wind mills, Wind Operated Electricity Generator (WOEG)
- Waste to energy plants / devices
- Solar lantern / solar lamp
- Ocean waves/tidal waves energy devices/plants

There are lot of items required for setting up of an energy device like Cables, Switchgears etc. Wires & Cables forms a major part for all of these Energy devices as power evacuation is not possible without Wires & Cables. But, Wires & Cables cannot be termed as parts of such system.

IEEMA Recommended: Clarification is required whether Wires & Cables and Switchgears will form part of Solar Power generating System. If yes, the same should also be incorporated under 5% GST, as per Schedule – I, under SI No. 234 of Notification No. 1/2017, dated 28th June 2017, of Integrated Tax (Rate).

- **Wires & Cables used in Petroleum Operations as per Notification No. 3/2017**

As per Notification No. 3 / 2017 - Central Tax (Rate), dated 28th June 2017, goods specified in the list required in connection with Petroleum operations, undertaken under petroleum exploration licenses or mining leases, granted by the Government of India or any State Government to the Oil and Natural Gas Corporation or Oil India Limited and as per other conditions, are taxable @ 2.5% under CGST i.e. total GST to be levied is 5%.

Cables and Wires are used for supplying power to the various machinery / equipment, used for petroleum operations. However, these are not included in the specified list of materials.

IEEMA Recommended: Government should allow Wires and Cables in specified list of materials.

- **Refund of Input GST in respect of the Railway Locomotives, under Notification No. 5 / 2017 - Central Tax (Rate)**

Section 54(3), subject to the provisions of sub-section (10), a registered person may claim refund of any unutilized input tax credit, at the end of any tax period:

Provided that no refund of unutilized input tax credit shall be allowed in cases other than -

- zero rated supplies made without payment of tax;
- where the credit has accumulated on account of rate of tax on inputs being higher than the rate of tax on output supplies (other than nil rated or fully exempt supplies), except supplies of goods or services or both as may be notified by the Government on the recommendations of the Council:

Subsequently, vide Notification No. 5 / 2017 - Central Tax (Rate), dated 28th June 2017; in exercise of the powers conferred by clause (ii) of the proviso to sub-section (3) of section 54 of the Central Goods and Services Tax Act, 2017 (12 of 2017), the Central Government, on the recommendations of the GST Council, notified the goods under the tariff heading 8601 to 8608-railway locomotives.

However the inputs for these locomotives flow from the tariff headings from 8501, 8504 etc. such as Traction Motors, Converters, and Traction Transformers, which are under 18% / 28% category. Thus, there is a scenario, where the GST on inputs exceeds the GST on outputs for Locomotives that are pegged at 5%.

To forgo this excess input GST as cost is not in the spirit GST where all input GST in furtherance of business must be available and in fact available but for this aberration.

IEEMA Recommended: The above referred notification be withdrawn since the supplies to Railways is highly compliant and chances of misclassification is zero.

- **Revision in Fixed Price Contract due to GST**

Presently, Power Distribution Projects of worth more than 30,000 crore, are going on across the country, under various schemes of the Government such as Deen Dayal Upadhyay Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS) and other State Projects through respective Discoms for APL and BPL consumers. Needless to mention that these are nation building projects, which endeavors to take electricity to the last mile villages and hamlets in our country.

In the pre-GST scenario, these projects were billed to clients under “Sale-in-transit” transactions, against concessional C forms. The net tax cost was approx. 11% to 12%. However, in the GST regime, net tax cost climbed up to approx. 20% to 22%. The additional impact of 9% to 11% is a huge burden on all the companies which are doing these projects, with a wafer-thin margin.

Most of these Contracts are on fixed price basis with no variation in prices for change in tax system.

IEEMA Recommended: Like the Government had enacted the provision of anti-profiteering rule for passing on the profit under GST; Government should also enact a provision of passing of the increase in tax liability, under GST to the Contractors, for all the Government Contracts.

- **Filing of Return under GST**

In the GST council meeting held on 06-10-2017, it was decided that assesses having turnover up to INR 1.5 crore are now required to file GSTR 3 on quarterly basis (instead of monthly). This facility of quarterly filing should be allowed to all. Taxes may continue to be paid on monthly basis. If this suggestion is accepted, requirement of filing form 3B on monthly basis will also not be there.

IEEMA Recommended: Facility of quarterly filing should be allowed to all registered tax payers.

- **Allow ability of Input Credit under GST**

Section 17(5) of CGST Act does not allow credit of certain goods (particularly car). However, if the said goods are again sold/supplied GST is again payable. This would end up in double taxation.

IEEMA Recommended: Law should provide that in case of supply of capital goods on which ITC has not been availed, there should be no tax. Supply of old assets should only be through the reversal mechanism instead of charging mechanism.

C. DIRECT TAXES:

- **Difficult Terrain Exemption**

Some organisations execute projects under difficult terrains and adverse political environments in States like Jammu & Kashmir and North Eastern States.

IEEMA Recommended: The Government should allow a special exemption or deduction for the organizations working under these conditions in order to encourage them to undertake projects in such regions.

- **Section for allowing of deduction of expenses on Corporate Social Responsibility:**

The amended Companies Act has mandated certain companies to spend at least 2% of average net profits of the company towards Corporate Social Responsibility (CSR). Based on the limits prescribed in the Companies Act, the amounts required to be spent by these companies will be substantial. The type of expenses covered within scope of CSR clearly indicate that the Government expects the Corporate Houses to participate in expenditure which would result into benefits to the society at large and not specifically related to the business of the entity incurring such expenses.

Certain Corporate Houses are already incurring expenses for the purpose which has now been referred to as CSR activity. As per the modified provisions of section 37(1) with effect from A.Y. 2014-15, CSR expenditure incurred by the assessee shall not be deemed to be for the purposes of business. Accordingly, the same shall be disallowed.

This has created hardship for the diversified conglomerates as identifying the areas / activities which are not related to the business poses a serious challenge. Further, disallowing CSR expenditure as mandated by The Companies Act, 2013 is against the principle of natural justice.

IEEMA Recommended: Existing provisions of section 37 should be suitably modified to allow deduction in respect of expenses (capital as well as revenue) incurred on CSR whether or not the same has been “laid down or expended wholly and exclusively for the purpose of the business” as it is for the benefit of society at large.

- **Removal of Minimum Alternate Tax in Special Economic Zones**

Currently units operating in Special Economic Zones (SEZs) are liable to pay the Minimum Alternate Tax (MAT) at the rate of 18.5% plus the Surcharge, the Education Cess and the Higher Education Cess, which eventually leads to tax incidence of 21.34%.

IEEMA Recommended: To support Make in India and encourage the industry, MAT should be removed, for the next 10 years, for units operating in SEZs, in order to increase their competitiveness.

- **Extension of Sunset Clause under Section 10AA of Income Tax Act**

Section 10AA of Income Tax Act provides tax holidays for the industries, established in specified areas for upliftment of these areas / industries. The benefit is available as 100% tax holidays for first 5 years, 50%, for next 5 years and 50% for the next 5 years, subject to specified investment criteria after 10 years. The Union Budget for financial year 2016-17 introduced a sunset clause for benefits available to units operating in Special Economic Zones, under Section 10 AA of Income Tax Act. These benefits will be available to the units which start production on or before 31st March, 2020.

IEEMA Recommended: The benefit of this sunset clause should be made as 100% and extended to 31st March, 2022 in line with the National Solar Mission target of 100 GW by 2022.

- **Corporate Tax**

Currently Corporate Tax incidence is around 34%. Hon'ble Finance Minister of India had a vision to bring down Corporate Tax rate to 25% by 2020.

IEEMA Recommended: IEEMA requests to bring down Corporate Tax rate to 25%.

- **Extension of benefit under Section 32 AC**

An additional benefit of 15% of value of investment was given under Section 32 AC if the investment in new Plant and Machinery, sums up more than 25 Crore. This benefit was available till 31st March 2017.

IEEMA Recommended: The benefit of Section 32 AC should be extended to incentivise the manufacturing facilities and further promote the Make in India Programme of the Government of India.

(D) MISCELLANEOUS ISSUES:

- **Encouragement to New and Renewable Energy**
In order to boost Renewable Energy in the country, IEEMA suggests the following:
- National Clean Energy Fund should be made available to firms engaged production of Solar Energy for expanding their Research and Development, in order to produce more cost efficient energy solutions.
- States / Municipal Corporations across the country can be provided with dedicated budget for solar rooftop installations under National Clean Energy Fund.
- In wake on WTO ruling on DCR, Government buildings like school & hospitals should have

mandatory rooftop installations and modules to be procured indigenously.

- The revised M-SIPS scheme, issued vide Notification No. 27(35)/2013/IPHW, dated 03.08.2015, should extend all relaxations, improvements and benefits retrospectively to all projects, approved before 3.8.2015 and not limited to units set up or expanded with effect from 3.8.2015.
- A claim of 80% depreciation for Solar Industry was allowed till 31st March, 2017, however it was reduced to 40% in last budget. The same should be restored to 80%.
- The 80% accelerated depreciation benefit should be reinstated for solar industry to achieve the 100 GW target of National Solar Mission.
- In order to promote Indian Solar Industry the Government should provide the Solar Industry interest subsidy as in line with the "Technology Upgradation Fund Scheme" for textile industry. The promotion of solar Industry will have a multi façade benefits say Development of Make in India Project, Development of green energy, Development of completion of electrification target of the whole India by 2020.
- A 5% interest subsidy should be provided on interest costs for the funds borrowed towards investments in Capital Expenditure and Working Capital for current and new investments, with a loan tenure of 10 years.
- A 10% production subsidy should be provided by the Government to counter-act the export subsidy offered by China.
- Inclusion Solar Power Equipment manufacturing under the priority sector lending.
- We would recommend to provide land for solar manufacturing units on 99 years lease and low cost electricity should be provided to these units.
- A super-deduction of 200% of the R&D expenditure for new and clean solar technology development (which could be a part of the offset / Make in India arrangement) should be allowed. India already offers super-deduction of 200% of the R&D expenditure in emerging areas, such as bio-technology, which has led to rapid growth of Indian biotech and pharma companies. Expenses on skill upgradation & training local manpower should be also be included as part of super deductions. Tax credits on account of super-deductions allowed to carry over without any limitation.
- The budget must increase the allocation for renewal of grid infrastructure, since it becomes

even more important with increase in share of Renewable Energy. Better infrastructure will decrease the downtime of the budget.

- The 2% incentive given to Solar Industry, under MEIS Scheme, should be increased to 5% to promote export of solar products globally and make Indian products competitive with other global players.
- The Government should amend the CSR Act for spending at least 25% of CSR expenditure of eligible firms on clean energy deployment in rural areas.
- Surge in Imports of Electrical Equipment into India

Based on the projections of the Government of India, a few years back, for capacity enhancement in power generation, transmission and distribution, the domestic electrical equipment manufacturing industry has made huge investments in doubling and, in some cases, even tripling its production capacity. However, this built-up capacity currently stands under-utilised across several products due to sluggish domestic demand on account of the slowdown in the power sector and a surge in imports of electrical equipment.

During the last 11 years, from 2005-06 to 2016-17, India's imports of electrical equipment have increased at a compound annual growth rate (CAGR) of 13.44% in rupee terms and were at INR 55,291 crore (USD 8.25 billion) in 2016-17.

China's share in Indian imports of electrical equipment dramatically increased and now it stands at 33.63% (2016-17) of the total from 15.26% in 2005-06. Imports from China have grown at a CAGR of 21.88% in the last 11 years and were INR 18,592 crore (USD 2.77 billion) in 2016-17.

This is significantly impacting the commercial viability of the domestic electrical equipment industry and resulting in loss of employment of qualified engineers, technicians, workers, etc.

IEEMA Recommended: Give thrust to 'Make-in-India' initiative by implementing guidelines of Central Electricity Authority to ensure all Sovereign Funded projects are only subject to Domestic Competitive bidding.

- **Encourage Exports from India**

The potential for exports of electrical equipment from India is not fully exploited / encouraged.

IEEMA Recommended: The Government should provide an early refund of duty drawback amounts and enhance the incentives under Merchandise Exports from India Scheme from 2% to 10%.

- **Incentives for Increased Digitization**

With increased thrust on digitization, the Government should provide additional incentives for people to go

digital such as waiver of transaction service fees on digital payments.

Major Representations:

1. Request to Consider Decrease in Customs Duty on Imports of Primary Aluminium Metal

A representation was submitted to Ministry of Finance, Government of India, seeking a decrease in the customs duty of primary aluminum, which is basic raw material, from 7.5% to 5%, due to the steep increase in LME price of primary aluminium from USD 1490 / MT, as on 31st March 2016 to USD 1908 / MT, as on 30th June 2017. There was an increase of 28% in the LME price of aluminium over this period.

IEEMA stated that decrease in customs duty on imports of aluminium would be protective for revival and growth of the economy, downstream industries, forex to the Government, employment and above all the Make in India initiative of the Government of India.

2. Pending Export Obligation against Advance Authorisation / DFIA

IEEMA submitted a representation to the Department of Commerce and the Directorate General of Foreign Trade, Government of India, about the issue of incomplete export obligations under Duty Remission Schemes Viz: Advance Authorisation / Annual Advance Authorisations / Duty Free Import Authorisation, which were issued in the past.

With the massive worldwide changes in economic and political landscape worldwide there had been lack of global demand coupled with domestic factors like policy bottlenecks and delayed decisions. These caused many businesses to default on their export commitment against Advance Authorisation / Duty Free Import Authorisation / Annual Advance Licence. After the introduction of GST, it led to certain regulatory troubles for exporters, especially for those with past issues pending.

Even though the exporters attempted to complete pending export obligation by filing Shipping Bills against expired Advance Authorisation / DFIA, Customs refused to allow exports against such Advance Authorisation, where export obligation period had expired.

IEEMA requested that the issue of pending export obligation against Advance Authorisation / DFIA be addressed by allowing holders of Advance Authorisation / DFIA which were issued since 1st May, 2007, a fixed time frame of 1 year to complete pending export obligation. The fixed

time frame to complete pending obligation would provide exporters with a clean slate, in order to migrate to GST and concentrate on export efforts.

3. **Non-adherence to CEA Guidelines for Domestic Competitive Bidding & Make in India to Provide Preference to Domestic Manufacturers**

IEEMA represented to Rajasthan Rajya Vidyut Prasaran Nigam Limited, about OPGW bids that did not follow the advisory of Central Electricity Authority (CEA) in true spirit defeating its very objective.

These projects were domestically funded with 50% Grant from PSDF (reference to No. 1011/2014-OM dated 22nd May 2017 - Sanction of grant from PSDF towards Communication Backbone "Smart Transmission and Asset Management System"). Although the utility has sought for Indian experience in supply & installation, the technical QR for the manufacturer was kept open i.e. provision for foreign players to bid who had been supplying OPGW in India.

CEA had issued an advisory, dated 19th May, 2016, to Power Utilities, on domestic Competitive Bidding for Domestically Funded Projects of MoP, CPSUs, PFC or REC or projects funded by PFC and REC or by State Power Utilities and Transparent Two-Part Bidding, with an advice to follow the said advisory by the Utilities in National Interest.

4. **Cyber Security Threat to Indian Electrical Grid**

IEEMA submitted representation to Ministry of Power on this subject. IEEMA mentioned that in the connected systems, intelligent equipment talk to each other and exchange data and information making the system more efficient, but at the same time increases the vulnerability, if exposed to suspect individuals, companies and Nations which may use such access to their advantage.

The Central Electricity Authority, under Ministry of Power, had come up with a draft policy document to deal with the issue. However, a number of State

utilities continued to take this grave risks and were coming up with tenders, having the qualification requirement skewed towards favouring the Chinese firms. Copy of an APTRANSCO tender was enclosed, with a clear intent to favour the Chinese firms.

IEEMA requested the Ministry of Power to intervene and advise the Utilities to moderate their requirements, so that, these tenders do not come out in contrary to the thinking of Government of India and become detrimental to Grid Security of the nation.

5. **Anti-Dumping Duty on Imports of Dioctyl Phthalate Originating in or Exported from Korea PR and Chinese Taipei**

IEEMA submitted a representation to the Directorate of Anti-Dumping and Allied Duties opposing Anti-Dumping Duty on Imports of Dioctyl Phthalate (DoP) as the same would cause serious injury to domestic Cable and Wires industry.

Cable and Wires industry plays a vital role in the development of infrastructure in the country, namely Power, Railways, Ports, Industrial and Real Estate Sector (including affordable housing projects of Government of India). The industry is also very labour intensive and provides direct and indirect employment to around 4-5 lakh people in the country.

Dioctyl Phthalate is used to make the PVC Compound, which is used as a raw material for manufacturing of Cables and Wires. Anti-Dumping Duty on imports of Dioctyl Phthalate would increase the cost of domestic manufacturing and leading to surge in imports of Cables and Wires.

6. **Tariff Lines proposed by India to Australia on Goods belonging to the Power Sector under India-Australia CECA**

IEEMA submitted a representation to Central Electricity Authority, Government of India, on the Tariff Lines, under Chapter 85, proposed by India to Australia.

Attaching a list of tariff lines that commanded more than 3% or more share of Australian imports in 2016-17 and in First-Half of 2017-18, out of total imports, IEEMA recommends putting up of those tariff lines under sensitive list.

IEEMA also shared a list of electrical equipment which the industry is keen for exporting to Australia. It recommended to get these tariff lines included in Australia's offer to India, under India-Australia CECA.



7. India-Peru Trade Agreement- National Treatment and Market Access of Goods – Preparation of Indian Wish List

IEEMA represented to Department of Commerce and Department of Heavy Industry, Government of India, on wish list containing 4970 tariff lines, circulated by the department.

The Department of Commerce was requested to also include some other tariff lines, pertaining to Indian electrical industry, in the wish list of India, under this agreement. These tariff lines, were either exported or have significant potential for India's exports to Peru.

8. Korea Wish List for Tariff Concessions on 745 Tariff Lines

IEEMA submitted a representation to the Department of Heavy Industry, Government of India, opposing zero duty access to Korea for the list of products circulated by the Government.

Imports of electrical equipment in the country assumed very threatening proportions and captured 33.36% of the market for electrical equipment in India, resulting in loss of employment of qualified engineers, technicians, workers, etc. Korea's share in Indian imports of electrical equipment dramatically increased and stood at 8% (2015-16) of the total from 2.15% in 2006-07. Imports from Korea grew at a CAGR of 29.71% in the last nine years and were INR 4,324 crore in 2015-16.

On the other hand, India's exports to Korea during the same period have grown only at a CAGR of 10.80% and were INR 798 crore in 2015-16.

India was having significant trade deficit with Korea before signing the India-Korea CEPA, on 7th August 2009, which had drastically increased after implementation of this trade agreement on 1st January 2010. From the experience of India-Korea CEPA it can be drawn that while India has been able to increase its exports to South Korea marginally, there is significant increase of imports of electrical equipment from Korea into India.

9. Request to classify Medium Voltage (MV) and High Voltage (HV) Gas Insulated Switchgear (GIS) under HSN Code 8535

IEEMA submitted a representation to the GST Council, Ministry of Finance, Government of India, mentioning that a product namely "Gas Insulated Switchgear (GIS)", were cleared both under HSN Codes 8535 and 8537 by manufacturers.

While reproducing the definition of switchgear, culled from IEC standards, and comparing it with GST Classification, IEEMA submitted that the item



is rightly classifiable under 8535.

10. Request for lowering the GST rate on Wires & Cables, LT Switchgears, Switch Boards, Panels and Insulator Fittings from 28% to 18% and keeping a Uniform Rate of 18% GST on all Electrical Products

IEEMA submitted a representation to the GST Council; Ministries of Finance, Power, Heavy Industry, Commerce & Industry, Micro, Small & Medium Enterprises Government of India, on the subject.

While many products under Chapter 85 had been put under a GST rate of 18%, some products were kept under 28% GST. IEEMA requested to remove this anomaly be removed and a GST rate of 18% should prevail on all electrical products, in order to maintain uniformity across the industry. If this continues the domestic manufacturing industries of Wire & Cables, Switchgears, Switch Boards, Insulator Fittings, Panels will be killed in some time.

A single GST rate of 18% across all electrical products, as mentioned in the table, is easy to interpret, promote ease of doing business, curb grey market sale, improve consumption, leading to improvement in tax compliance.

Further, Project Imports, under Chapter 9801, had been kept at 18% GST. So, the electrical products like Wire & Cables, Switchgears, Switch Boards, Insulator Fittings, Panels etc. when covered under a project imports attracted a concessional basic customs duty of 5% + 18% GST. However, on the other hand, the same electrical products when supplied by a domestic manufacturer attracted 28% GST.

11. Impact of GST on Deemed Export Projects

IEEMA submitted a representation to the Ministry of Power, Government of India, on Projects under Deemed Exports, which were under ICB and funded by multilateral / bilateral Agencies / Funds. These were earlier exempted from payment of



excise duties, through Excise Duty Exemption Certificate. Under the GST Law there is no provision for Deemed Export and therefore supplies to such projects attract GST.

Since the impact of GST is very high, supplies to all these projects have come to stand still and shall result in delay in completion of the project, loss of price variation to suppliers / contractors, cost overrun, stress on cash flow for the projects.

IEEMA requests the Government to notify exemption / refund of GST for deemed export projects.

12. GST impact on Power Distribution Projects and Request for Equitable Adjustment in the Contract Price

IEEMA represented to Ministry of Power, Government of India on the impact of GST on Rural Electrification Projects.

More than 30,000 crore worth of Power Distribution Projects were going on across the country, under various schemes of the Government such as Deen Dayal Upadhyay Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS) and other State Projects through respective Discoms for APL and BPL consumers.

In the pre-GST scenario, these projects were exempted from VAT & billed to client under “Sale-in-transit” transactions, against concessional C forms. The net tax cost was approx. 11% to 12%. However, in the GST regime, net tax cost climbed up to approx. 20% to 22%. The additional impact of 9% to 11% is a huge burden on all the companies which are doing these projects with a wafer-thin margin.

The incremental Tax impact from Pre-GST to post GST is around 10% (21.3% – 11.1%) and it is

extremely difficult for the companies to absorb such a huge impact and projects would get stalled unless an equitable adjustment is made. The incremental tax impact is emanating not so much from the tax classification, but more so from the tax exemption which these power projects were entitled to, under the earlier concessional CST regime of C and EI forms.

IEEMA recommended the following, in the order of preference:

- i) Bring all the Supply and Erection items under 12% classification for Power Infra Projects, which was the earlier tax cost.
- ii) Continue with the Sales tax exemption which was available under the earlier process of ‘sale in transit’ through C and EI forms.
- iii) Give an equitable price increase to the Companies implementing the projects, if above (1) and (2) is not possible.

13. Initiation of Anti-Dumping investigation concerning imports of “Solar Cells whether not assembled partially or fully in modules and panels or on glass or some other suitable substrates” originating in or exported from China PR, Taiwan and Malaysia

IEEMA represented to the Directorate General of Anti-Dumping and Allied Duties to differentiate the rate of Anti-Dumping Duty on Solar Cells and Solar Modules / Panels.

Solar Module is final finished product while a Solar Cell is raw material for solar module. To feed the local requirement of Solar Cells for manufacturing Solar Modules are not sufficient. Therefore, domestic Solar Module manufacturers have to import Solar Cell to run their capacity.

The use of imported Solar Panels are much more in numbers and value, as compared to the Solar Cells. Less than half of the Solar Panel manufacturing capacity of the country was utilized. It was estimated that approximately 85-90% of the requirement of Solar Modules were met through imports, which led to forex outflow of approximately USD 3 Billion.

IEEMA submitted that putting the same percentage of Anti-Dumping Duty on both PV Solar Cells and Modules would defeat the purpose. Therefore, DGAD needs to differentiate the rate of Anti-Dumping Duty on Solar Cells and Solar Modules / Panels.



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.

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