

The logo for the Indian Electrical & Electronics Manufacturers' Association (ieema) features the word "ieema" in a stylized, lowercase font. The letters are filled with a gradient from orange to red, with a white outline. The background of the entire cover is dark blue, featuring a large, abstract graphic on the right side that resembles a stylized, thick blue letter 'E' or a circuit board trace. On the left side, there is a graphic of a globe composed of a grid of small blue dots, with several white circular nodes and thin white lines connecting them in a network-like pattern.

**ieema**

your link to **electricity**

INDIAN ELECTRICAL & ELECTRONICS MANUFACTURERS' ASSOCIATION

# ***Enhancing Global Footprint***

**70<sup>th</sup>** Annual Report  
2016-2017



(L to R) Mr. Harish Agarwal, Vice President, IEEMA, Mr. Sanjeev Sardana, President, IEEMA, Mr. Vijay Karia, Chairman, ELECRAMA 2018, Mr. Suresh Prabhu, Union Minister for Railways and Mr. Sunil Misra, Director General, IEEMA at ELECRAMA 2018 announcement event.

(L to R) Mr. Sunil Misra, Director General, IEEMA; Mr. Rajesh Pandey, CMD & MD, WBSEDCL & WBSETCL; Mr. Abdul Matlub Ahmed, President, Federation of Bangladesh Chamber of Commerce & Industry; Mr. Sobhandeb Chattopadhyay, Hon'ble Minister in Charge, Dept of Power & NES, Govt of West Bengal; Mr. Harish Agarwal, Vice President IEEMA, Mr. Vishal Kapoor, Director, Distribution, Ministry of Power, Govt of India; Mr. Bharat Bhushan, Executive Director, PGCIL and Mr. R K Shah, Chairman, Eastern Region Committee, IEEMA.



(L to R) Mr. Sunil Misra, Director General, IEEMA, Mr. Harish Agarwal, Vice President, IEEMA, Mr. Richard Schomberg, Chairperson –SyC of Smart Energy, His Excellency Shri V P Singh Badnore, Governor of Punjab and Administrator of Chandigarh UT, Mr. R. K Verma, Chairperson (I/C), CEA, Ms. Ritu Maheshwari, IAS, CEO RECTPCL, Mr. Jitendra Agarwal, Chairman, Meter Division and Ms. Manjushri Shah, Convener Metering India 2017

(L to R) Mr. Anil Choudhary, Country President & MD, Schneider Electric, Mr. Sunil Misra, Director General, IEEMA, Mr. A K Verma, JS, MoP, Mr. Prakash Chandraker, Chairman, INTELECT 2017, Mr. Piyush Goyal, Hon'ble Minister for Power (IC), Coal, Mines and Renewable Energy, Mr. Sanjeev Sardana, President, IEEMA, Mr. Sanjay Shukla, MD, MPPMCL, Ms. Indra Prem Menon, Vice President, IEEMA, Mr. R K Verma, Chairperson, CEA, Mr. Harish Agarwal, Vice President, IEEMA at INTELECT 2017 & DistribuElec.





# PRESIDENT'S MESSAGE



**Mr. Sanjeev Sardana**

Managing Director  
Yamuna Power & Infrastructure Ltd.

It has been a fast paced year for IEEMA, with our increased engagements with the Government and industry across divisions and geography, both domestic and international. IEEMA was invited by various ministries, both Central and State, and departments to provide its inputs in policy formulation. It is our continuous endeavor to provide an industry wide view and inputs to the Government. These inputs, provided by IEEMA Divisions and membership, will help the industry to further contribute in building a sustainable power infrastructure in the country.

IEEMA has been successful in resolution of various issues impacting Indian Electrical Industry in the last one year, noteworthy among these are acceptance of IEEMA's recommendations for National Capital Goods Policy by Department of Heavy Industries & CEA guidelines on Domestic Procurement Policy, reduction of GST rates for some electrical equipment, bringing to fore the Cyber Security threat to the nation, extension of Electrical Transformer Quality Control order by DHI and mandate for IE 5 Motors by BIS.

I am glad to share that IEEMA's recommendations related to procurement of electrical equipment under local competitive bidding, were accepted by the Department of Heavy Industry, and were incorporated in the final National Capital goods Policy.

GST is an important long awaited reform, which will revolutionize the way we do taxes in our country. It is expected to remove barriers and improve economic efficiency leading to higher growth in the long run. Within our industry, there are mixed feelings about the impact of GST. IEEMA is seriously concerned about higher rate of 28% GST announced on some electrical products and through our efforts, GST rates of some of these products were brought down to 18%, which is a good news for electrical equipment manufacturers.

IEEMA has time and again taken up the issue of Cyber Security threat to our electrical grid particularly to our critical infrastructure where equipment are intelligent and communicate with each other. I am happy to apprise you that the government has taken cognizance of our concerns and has set up a committee under the chairmanship of Member E&C CEA. IEEMA has provided inputs, which are included in the final

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report submitted to CEA.

With great pride, I would like to inform that IEEMA along with Department of Commerce, Principal Scientific Advisor to the Prime Minister Office, DHI and DIPP, is working towards developing highest energy efficient motor in India. AIMERs / IE5 motor, as it is called will have a leading edge in terms of Technology and increased Energy Efficiency and shall be superior to the best available electric motor currently available in the Global market. This will not only move the Indian exports up in the value chain but also serve as a link between eminent research institutes & industry to make India a leader in terms of technology and market in a few identified product sectors.

As a breather to the Distribution Transformer industry, DHI issued an extension to Electrical Transformers (Quality Control) Order 2015, based on IEEMA's recommendation. IEEMA has repeatedly informed members to apply for the BIS license, since the Quality Control Order does not allow for manufacturing, sale, stock etc. of any Distribution Transformers without valid BIS license. I am pleased to inform that more than 400 manufacturers have obtained BIS license / certification for various energy efficiency levels.

The year started with SURGEPROTECH- 2nd International conference cum tutorials on Surge Arresters, which was held on 28th & 29th April 2016 at New Delhi, on theme of "Arresters for FAIL SAFE PROTECTION". The Conference was organised by IEEMA, jointly with CPRI and POWERGRID and received an overwhelming response from Industry, Utilities and all other stakeholders. The second edition of "Trafotech" was organised on 22nd and 23rd of November last year to manage the intended life of transformers.

IEEMA Smart Grid Division convened an interactive session in November, to bring the stakeholders of Smart Grid ecosystem on single platform.

This year we also entered into MoUs with important organizations like NPTI, IESA, CBIP, NSGM and PSSC.

Our Eastern Region Committee has been performing exceptionally well. "E3 – Energize, Empower East" Energy Convention, organized from 18-20 November last year, was a great success. The expo was inaugurated by Hon'ble Minister-in-Charge of Dept. of Power & Non-Conventional Energy Sources, West Bengal, Shri Sobhandeb Chattopadhyay in esteemed presence of eminent dignitaries from Power and electrical sector across the SAARC region.

It is very heartening to share that the Minister of

State (I/C) for Power, Coal, New and Renewable Energy and Mines Mr. Piyush Goyal, graced several key occasions of IEEMA with his presence, notable among them is the second edition of INTELECT 2017 & DistribuELEC. The event witnessed the presence of who's who of the Indian Electrical equipment industry. The two day International Conference on 'Evolving Trends in Intelligent Management of the Future Grid' witnessed distinguished speakers, sharing their experience, exchanging ideas and addressing the issues prevailing in the International electrical arena.

IEEMA has been steadily and persistently enhancing its global footprints. We participated in the 16th annual African Utility Week where a MoU was signed between SAEEC and IEEMA, to identify business opportunities in South Africa for our member companies. Focusing on the themes of best practice, business delegation and international standardisation exchange, IEEMA and BEAMA, recently entered into a MoU. It comes at a time of increased political and business collaboration between the UK and India.

We also participated in Middle East Electricity in February 2017, further strengthening our foothold in the GCC region, which is an important market for our membership. We had high level engagements with our Global counterparts, and we hosted senior delegations from Thailand, South Africa, China, Hong Kong and United Kingdom. The coming years 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. We must focus on quality, skill level of our workforce and stay ahead of the technology curve to remain relevant in the new era.

I would like to emphasize that our Membership has always been on top on the agenda, specially our MSME members. We continued with our membership outreach programme this year too and organized workshops for SME's in Mumbai and Delhi to help them keep abreast of the schemes / financial assistance / subsidies available to MSMEs for technical upgradation, quality & infrastructure improvement, and Public Procurement Policies.

I would finally like to extend my heartfelt gratitude to all IEEMA members, Council members, Office bearers and our Secretariat who were very supportive and made my stint as IEEMA President, a very fulfilling one. I thank you all for your participation and support.



**Sanjeev**



# EXECUTIVE COUNCIL



President  
**Mr. Sanjeev Sardana**  
Managing Director  
Yamuna Power & Infrastructure  
Limited



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



Vice-President  
**Mr. Harish Agarwal**  
CEO  
Supreme & Co Pvt Ltd



Immediate Past President  
**Mr. Babu Babel**  
Non-Executive Director  
Secure Meters Ltd

# ELECTED MEMBERS



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



**Mr. Vinamra Agarwal**  
Director  
Technical Associates Ltd



**Mr. Babu J Amritkar**  
President – Business Head  
Transformers EMco Limited



**Mr. Prakash Chandraker**  
Vice President & Managing Director  
Schneider Electric



**Mr. R.K. Chugh**  
Location Head Gurugram &  
Vice President - Energy Management  
Digital Grid (South Asia)  
Siemens Ltd



**Mr. Chaitanya Desai**  
Managing Director  
Apar Industries Ltd



**Mr. Aaditya R. Dhoot**  
Managing Director  
IMP Powers Limited



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



**Mr. Shreegopal Kabra**  
Managing Director  
R R Kabel Ltd.



# ELECTED MEMBERS



**Mr. Vijay P Karia**  
Chairman & Managing Director  
Ravin Group of Companies



**Mr. Vikas Khosla**  
President – Corporate Affairs &  
Business Development  
Aditya Birla Insulators



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



**Mr. Vipul Ray**  
Managing Director  
Elmex Controls Pvt Ltd



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



**Mr. Pitamber Shrivani**  
President – Powergrid Division  
ABB India Limited



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

# COUNSELLORS



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



**Mr. Raj H. Eswaran**  
Managing Director  
Easun Reyrolle Limited



**Mr. J.G. Kulkarni**  
Past President – IEEMA



**Mr. R.D. Chandak**  
Past President – IEEMA



**Mr. Vimal Mahendru**  
President  
Novateur Electricals & Digital  
Systems P Ltd



# CO-OPTED MEMBERS



**Mr. Sharan Bansal**  
Director  
Skipper Limited



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



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



**Mr. Saif Qureishi**  
CEO & Managing Director  
Kryfs Power Components Ltd



**Mr. Kunal Sunil Kadakia**  
Director  
Precision Plastic Industries Pvt Ltd



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



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

## STANDING INVITEES



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



**Mr. Y.V. Joshi**  
President – ERDA  
(Superintending Engineer, GETCO)

## SPECIAL INVITEES



**Mr. Satyajit Chattopadhyay**  
Director  
WEG Industries (India ) Pvt Ltd



**Mr. Vimal Kejriwal**  
Managing Director & CEO  
KEC International Ltd



**Mr. Somesh Sehgal**  
Owner  
Cynosure Consulting Co



# DIVISIONAL CHAIRMEN



CABLE DIVISION  
**Mr. Rakesh Amol**  
President - Infrastructure &  
Cables Business  
KEC International Limited



CAPACITOR DIVISION  
**Mr. Ajay Joshi**  
Vice President (Capacitor -Mktg)  
Universal Cables Ltd



CONDUCTOR DIVISION  
**Mr. Manish Agarwal**  
Executive Vice President,  
Chief Customer Office & Head Policy  
Sterlite Technologies Limited



DISTRIBUTION TRANSFORMERS  
DIVISION  
**Mr. Pawan Kumar Jain**  
Managing Director  
Kotsons Pvt Ltd



ELECTRICAL INSULATING  
MATERIAL DIVISION  
**Mr. Mihir S. Merchant**  
Dy. CEO - Strategic Businesses  
Permal Wallace Pvt Ltd



ELEVATORS AND ESCALATORS  
DIVISION  
**Mr. Sebi Joseph**  
Managing Director  
Otis Elevator Company (India) Limited



INTERNATIONAL BUSINESS  
DIVISION  
**Mr. Anil Saboo**  
Managing Director  
Elektrolites (Power) Pvt Ltd

# DIVISIONAL CHAIRMEN



INSTRUMENT TRANSFORMER DIVISION  
**Mr. Vidyadhar Shevade**  
Dy. General Manager – Marketing  
(Instrument Transformers, Bushings &  
Lightning Arresters)  
CG Global & Industrial Solutions Ltd



INSULATOR DIVISION  
**Mr. Samir Kumar Ghosh**  
Chairman – Director  
Allied Ceramics Pvt Ltd



METER DIVISION  
**Mr. Jitendra Kumar Agarwal**  
Jt. Managing Director  
Genus Power Infrastructure 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  
**Mr. Ashok Kulkarni**  
DGM – Large Rotating Machines Unit  
I Mandideep  
CG Power and Industrial Solutions Ltd



LV SWITCHGEAR DIVISION  
**Mr. M.P. Kamath**  
Vice President - Sales Excellence  
Digital Factory Division  
Siemens Ltd



# DIVISIONAL CHAIRMEN



MV & HV SWITCHGEAR DIVISION  
**Mr. A.S. Subramaniyan**  
General Manager & Head Strategy-  
Energy Management Division  
Siemens Ltd



SMART GRID DIVISION  
**Mr. Vikram Gandotra**  
General Manager  
(Mktg & Strategy)  
Siemens Ltd



SME DIVISION  
**Mr. J.G. Kulkarni**  
Past President - IEEMA



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



TRANSMISSION & DISTRIBUTION  
PROJECT DIVISION  
**Mr. Harish Agarwal**  
CEO  
Supreme & Co. Pvt Ltd



WINDING WIRE DIVISION  
**Mr. Shreegopal Kabra**  
Managing Director  
R R Kabel Ltd.

# COMMITTEES & CELLS



ELECTRICAL LAMINATION  
COMMITTEE

**Mr. Saif Qureishi**  
CEO & Managing Director  
Kryfs Power Components Ltd



QUALITY CELL

**Mr. M.G. Sathyendra**  
QmartGlobal



RENEWABLE ENERGY COMMITTEE

**Mr. Vikalp Mundra**  
Jt. Managing Director  
Ujjas Energy Ltd



PUBLIC POLICY CELL

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



EASTERN REGION COMMITTEE

**Mr. R.K. Shah**  
President (Proc. Comml. & Bkng)  
EMC Ltd



ECONOMIC & TAXATION COMMITTEE

**Mr. Adarsh Kumar Jain**  
General Manager (Finance)  
KEI Industries Limited



# IEEMA SECRETARIAT

Sunil Misra  
Director General

## MUMBAI

**Cdr. Parijat Sinha (Retd.)**  
Head – Operations & Admin

**Ninad Ranade**  
Dy. Director – PVC & Statistics

**Madhura Bhivandkar**  
Sr. Executive Officer – Membership/  
Management Representative - ISO

**Pravin S Kelaskar**  
Director – General Administration

**Suhas Nawathe**  
Dy. Director - Membership

**Shalini Singh**  
sub Editor - IEEMA Journal

## NEW DELHI

**Anil Nagrani**  
Dy. Director General

**Ajay Mahajan**  
Head – Trade Fairs Marketing

**Niharika Jaiswal**  
Head- Accounts & Finance

**Anita Gupta**  
Director – Product Divisions

**Jaideep Das**  
Dy. Director –IT

**Pragati Sohoni**  
Sr. Executive Officer – Product Divisions

**Uttam Kumar**  
Executive Officer –Product Divisions

**Mohd. Akeel Khan**  
Executive Officer – Product Divisions

**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

**Naveen Upreti**  
Sr. Executive Officer – Product Divisions

**Vivek Arora**  
Executive Officer – Product Divisions

**Jitendra Kumar Rajput**  
Executive Officer - Accounts

## BANGALORE

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

**Murli Krishna**  
Manager –Key Accounts, Trade Fair Mktg

## KOLKATA

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

## STATE HEADS

**Andhra Pradesh & Telangana**  
Jesse A Inaparthi

**Haryana, Himachal Pradesh & Punjab**  
Bharti Bisht

**North Eastern States**  
Nilankha Chaliha

**Rajasthan**  
Devesh Vyas

**Gujarat, Maharastra, Goa, Daman & Diu**  
Tarjani Patel

**Jammu & Kashmir**  
Mohammad Irfan Parray

**Odisha**  
Smruti Ranjan Samantaray

**Uttar Pradesh & Uttarakhand**  
Anuj Kumar Chaturvedi

## BANKERS:

Bank of India, Mumbai  
Indian Overseas Bank, Mumbai, Delhi & Kolkata  
State Bank of India, Bangalore, Mumbai

**Auditors** : Singhi & Co., Mumbai  
**Internal Auditors** : S.R. Rege & Company

The Oriental Bank of Commerce, New Delhi  
HDFC Bank, Mumbai  
ICICI Bank, Mumbai

**Tax Auditors** : Sharp & Tannan, Mumbai  
**Secretarial Consultant** : V.N. Deodhar & Co.

# INTERNAL COMMITTEES :

## FOR THE YEAR 2016-2017:

### Advisory Committee for Investment & Audit

Mr. R.D. Chandak (Past President)  
Mr. Chaitanya Desai, Jt.MD, Apar Industries  
Mr. Aaditya Dhoot, Managing Director, IMP Powers Limited

### HR and Administration Committee

Mr. Sanjeev Sardana, MD, Yamuna Power  
Mrs. Indra Prem Menon, MD, Lakshmanan Isola  
Mr. Harish Agarwal, CEO, Supreme & Co

### 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 P. Karia, MD, Ravin Cables Limited  
Mr. Sunil Kumar Singhvi, CEO (Energy SBU), Secure Meters Limited

### Technology & Innovation Committee

Mr. Vinamra Agarwal, Director – Technical Associates Limited  
Mr. P. Ramachandran, Technical Advisor, 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, Former Chairman, E&T Committee & Consultant (Taxation) , L&T – MHI Boilers Pvt. Ltd.  
Mr. Rajeev Aggarwal, Chief Financial Officer, KEC International Limited  
Dr. (Mrs.) Jaya Sathe, Managing Director, Gilbert and Maxwell Electricals Pvt. Ltd.  
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. Narendra Goliya, CMD, Rishabh Instruments  
Mr. Shrikant P Parikh, Partner, Rajesh & Company Hardchem Electronics  
Mr. S.C. Maheshwari, Director Finance, RMC Switchgears Ltd  
Mr. Pravin Saraswat, 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. Mukul Gupta, Sr. Manager Finance, KEI Industries Ltd  
Ms. Divya Gupta, Asst. Manager – Finance, KEI Industries  
Mr. Anshul Goel, General Manager (Finance & Taxation), Special Cables Pvt Ltd

# REPRESENTATION ON EXTERNAL BODIES

For the year 2016-17

Governing Body of Central Power Research Institute	Mr. Sanjeev Sardana Mrs. Indra Prem Menon
R&D Committee of Central Power Research Institute	Mr. Bapu J. Amritkar Mr. P Ramachandran, ABB
Development Council for Heavy Electrical & Allied Industries (DCHEAI)	Mr. S Chattopadhyay Mr. R.K. Chugh
Governing Council of National Power Training Institute (NPTI)	Mr. R.K. Chugh Mr. Anil Saboo
Governing Body of Quality Council Of India	Mr. Sunil Singhvi Mr. Vijay Karia
Managing Committee of ERDA	Mr. Harish Agarwal Mr. Chaitanya Desai Mr. Vipul Ray
Indian National Committee (INC IEC)	Mr. Sunil Singhvi Mr. Vipul Ray Mr. Anil Saboo Mr. Vikram Gandotra
Governing Council of MSME-Technology: Development Centre	Mr. Vinod Bhatia Mr. Vipul Ray
CII National Committee on 'Capital goods and engineering'	Mr. Prakash Chandraker Mr. R. K. Chugh Mr. Anil Saboo Mr. Bapu J. Amritkar
CII – ASCON	Mr. Sanjeev Sardana
Power Sector Skill Council – Central Electricity Authority	Mr. Sunil Singhvi Mr. Somesh Sehgal
Mission Plan – IMG on Industry Competitiveness, Exports and Conversion of Latent Demand	Mr. Vikalp Mundra Mr. Vikram Gandotra
Mission Plan – IMG on Technology Upgradation and Skills Development	Mr. Harish Agarwal Mr. Chaitanya Desai Mr. Vipul Ray
Technical Review Committee for All India Index of Industrial Production	Mr. Vikas Khosla
National Council of Confederation of Indian Industry	Mr. Sanjeev Sardana



# IEEMA LEADERSHIP



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## REPORT OF THE EXECUTIVE COUNCIL

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 31.3.2017.

Following meetings of the Council were held in the year 2016-17

Sr.No.	Date	Venue
1	9th April 2016	Udaipur
2	17th June 2016	Vadodara
3	19th August 2016	Kolkata
4	30th September 2016	Mumbai
5	11th November 2016	New Delhi
6	22nd January 2017r	Noida
7	17th March 2017	Madurai

## MEMBERSHIP

### Ordinary Members

During the year 41 companies joined IEEMA as ordinary members. 8 member companies resigned. Details of new members are as follows:

1. LS Cable India Pvt. Ltd.
2. Sintex Industries Limited
3. Saru Silver Alloys Pvt. Ltd.
4. Danke Technoelectro Pvt. Ltd.
5. JDS Transformers Inds. Pvt. Ltd.
6. NIE Power & Engineering Pvt. Ltd.
7. Rajasthan Powergen Transforms Pvt. Ltd.
8. Technofab Engineering Limited
9. Vikas Enterprises

10. Wilson Power and Distribution Technologies Pvt. Ltd.
11. Velcro Electrical Manufacturers Pvt. Ltd.
12. Schweitzer Engineering Laboratories Pvt. Ltd.
13. Huphen Fabricators Pvt. Ltd.
14. Arcotech Limited
15. Core Metal Krafts Ltd.
16. Eco Power Solutions
17. Hi-Power Electrical Industries
18. Jaybee Industries
19. Lee Vedla Industrial Corpn.
20. TRP Sealing Systems India Pvt. Ltd.
21. Ritika Enterprises
22. Bijay Transformer
23. J. S. Control
24. Kailash Devbuild (India) Pvt. Ltd.
25. Maktel Control & Systems Pvt. Ltd.
26. M. B. Control & Systems Pvt. Ltd.
27. Nsoft (India) Services Private Limited
28. R. R. Kabel Ltd.
29. Cee Dee Cacuum Equipments Pvt. Ltd.
30. GM Modular Pvt. Ltd.
31. Guardian Cables & Conductors (P) Ltd.
32. Nik-san Engineering Company Ltd.
33. Recons Power Equipments Pvt. Ltd.



34. Shivalic Power Control (P) Ltd.
35. Socomec India Pvt. Ltd.
36. Spark Insulators Private Limited
37. Spartan Electricals
38. Trio Elevators Co. (India) Ltd.
39. Valmont Structures India Pvt. Ltd.
40. Vidya Wires Pvt. Ltd.
41. Viat Instruments Pvt. Ltd.

The number of Ordinary Members at the end of the financial year stood at 644 a net reduction of 8 members due to resignation from membership.

#### **Associate members:**

During the year 20 companies joined IEEMA as Associate members. 5 Member companies resigned Details of new members are as follows:

1. Hyosung T&D India Pvt. Ltd.
2. ELEDEA
3. Jyoti Engineering Works
4. Lucy Electric India Pvt. Ltd.
5. Statcon Energias Pvt. Ltd.
6. Zenmeter Solutions Private Limited

7. MacLean Power (India) Private Limited
8. Hobb International Pvt. Ltd.
9. Swamiji Transmission Pvt. Ltd.
10. ZicomElectronicSecurity Systems Ltd.
11. SPS Transformers Pvt. Ltd.
12. Dhen India Pvt. Ltd.
13. Durable Conductors & Cables
14. Plutus Smart Energy Solutions
15. BTW Atlanta Transformers India Pvt. Ltd.
16. Drake & Scull Water & Energy India Pvt. Ltd.
17. Indica Engineers
18. Primetals Technologies India Pvt. Ltd.
19. Thermax Limited
20. Sharika Enterprises Pvt. Ltd.

At the end of the year, Associate Membership stood at 182, a net reduction of 5 members principally due to resignation from membership.

#### **Institutional Membership**

During the year 1 institute joined IEEMA as Institutional Members. Details of new members are as follows:



Lamp Lighting at IEEMA Annual Convention 2016



## **Konark Institute of Science and Technology, Bhubaneswar**

At the end of the year, Institutional Membership stood at 4.

### **Membership Position**

The total IEEMA membership at the end of the financial year stood at 830

### **IEEMA – Annual Convention and 69th Annual General Meeting**

With 'Electrifying Prosperity' being the theme of IEEMA's Annual Convention 2016 held on September 30th 2016 at Hotel ITC Maratha, Mumbai, the subject was highly appreciated by dignitaries and industry leaders present on the occasion. The convention was followed by the 69th Annual General Meeting of IEEMA where the newly elected President of IEEMA Mr. Sanjeev Sardana took over the post.

The annual convention was inaugurated by Mr. Piyush Goyal, Union Minister of State for Power, Coal New and Renewable Energy and Mines (I/C).

Discussion on 'Emerging Challenges and Opportunities in the Power Sector' took place. The eminent panelist at the CEO round table were Mr. S.C. Bhargava, Member- Executive Management Committee & Sr. VP – Electrical & Automation, Larsen & Toubro Limited, Mr. Sanjeev Sharma, Managing Director, ABB India Ltd, Mr. Babu Babel, President – IEEMA and Jt. Managing Director, Secure Meters Ltd, Mr. Sanjeev Sardana, President Designate- IEEMA and MD, Yamuna Power and Infrastructure, Ms. Indra P Menon, Vice President – IEEMA and Managing Director & President, Lakshmanan Isola.

IEEMA signed MoUs with Central Board of Irrigation and Power (CBIP), Power Sector Skill Council (PSSC) and National Power Training Institute (NPTI) to deal comprehensively on the issues of skill development and integrated training in the Indian power sector.

IEEMA felicitated Ms. Usha Kunwar of Rajasthan with the newly instituted 'IEEMA

Urja Navachar Puraskar' for eliminating power theft in Silhegarh Panchayat area of her state.

The Convention was followed by the 69th IEEMA Annual General meeting. Mr Babu Babel, President, IEEMA presented a report on the activities during the preceding year.



*Hon'ble Minister of State with Independent Charge for Power, Coal, New and Renewable Energy and Mines, Mr. Piyush Goyal felicitating Ms. Usha Kanwar.*

IEEMA felicitated member companies M/s. Otis Elevator Company (India) Ltd and GE T&D India Limited (earlier Alstom T&D India) 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. Suja Varghese for her long and dedicated service to the Association of over 25 years and presented a memento as token of appreciation.

A Memento was the 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 2016-17

**The First Meeting of Executive Council 2015-16 was held on 9th April 2016 at Udaipur.** During the meeting, President briefed the Council on activities of IEEMA since the last Executive Council Meeting.

The Annual Convention at Mumbai in September 2016 will be held with the theme 'Prosperity through Electricity'. The decision to organise INTELECT 2017 at India Expo Center at Noida between 9-11 February 2017 was also taken by the council.

Setting up of IEEMA Zonal Chapters was discussed and approved for setting up of Zonal Chapters in Punjab, Haryana, Rajasthan, Uttar Pradesh, Bihar, Andhra Pradesh, Tamil Nadu, Karnataka, Maharashtra, Madhya Pradesh and Gujarat. The Committee approved a Pan India social Awareness Campaign against *theft of electricity*

**The Second Meeting of Executive Council 2015-16 was held on 17th June 2016 at Vadodara.** Mr. Sunil Misra, Director General requested members for their support in conducting secretariat training and capacity building by facilitating factory visits. Members were invited to volunteers for the same.

The members discussed about the 69th AGM and Annual Convention with the theme 'Prosperity through Electricity' to be held in Mumbai on 30th September 2016 at Hotel ITC Maratha.

Status updates on UDAY was also discussed in the meeting where members were briefed on certain issues being faced by industry in view of states not adhering to these specifications laid down by Central Government. The members suggested that REC to be requested to address the issue with all stakeholders. The Council was also briefed on the anti-theft campaign and President appealed to all

members to support the initiative as it had long term perspective of positive impact as a whole on society in general and industry in particular. Mr. Tarun Singh Chouhan, Brand Consultant has been engaged to advice on all aspects of management of brand IEEMA.

A visit of Hon'ble Union Minister of Power is scheduled to China from 1st to 2nd July 2016 and Council encouraged members to avail of the opportunity to help IEEMA and their own industry. The Council also discussed about Procurement Policy of MSME for upto 100 KW motor and Safeguard Duty on Aluminum.

**The Third Meeting of Executive Council 2015-16 was held on 19th August 2016 at Kolkata.**

Council took note of single point repository for updates and circulation of government policies, funding and other public policy related matters established at the Delhi office of IEEMA.

The Members were also briefed on the anti-theft campaign by the President where he informed that the concept, design, communication plan and creative have been conceptualized.

Council was also briefed by Chairman,



Lamp Lighting at INTELECT & DistribuELEC 2017

Conductor division about safeguard duty on aluminum and requested IEEMA to commission a white paper on commodities, spares and capacities of the Chinese market which would provide an insight to Indian manufacturers of production capacity assessment.

**The Fourth Meeting of Executive Council was held on 30th September 2016 at Mumbai**

Mr. Sanjeev Sardana, President- 2016-17 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 principle goal of IEEMA about increasing relevance and value for members which in turn should generate a natural traction for increasing membership. The council members also suggested on setting a target for increase in membership by 20% annually.

**The Fifth Meeting of Executive Council was held on 11th November 2016 at New Delhi.**

Director General Mr. Sunil Misra made a short presentation updating all members on the various government interactions, divisional activities, workshops and training programmes that have taken place in the preceding period.

Mr. Chaitanya Desai briefed members on the interest shown by CMD, MSEDCL in industry participation. He mentioned that the CMD has requested for papers / presentation on technological solutions for the following:

- Reactive Power Control
- High Loss equipment and Technology / engineering solutions proposed to reduce them
- Metering (Whether they can be tampered through remote means)
- New Technology that may be considered

in new projects with cost-benefit (e.g. GIS)

Also during the meeting the Director General made a short presentation introducing the subject of need for ethical code of conduct for member companies, drawing reference to the UNCAC and several steps taken by the Government of India to address the issues of ethics and corruption.

**The sixth Meeting of IEEMA Executive Council was held on January 22, 2017 at India Expo Mart, Greater Noida, UP.**

**Members** discussed on number of issue including the membership of IEEMA where Mr. R.K Chugh brought out that the total number of members have by and large remained constant around 800 over several years. It was felt that opportunity for increasing the number existed. Council opined that the present number be increased to target 1000 through strategic initiative by the existing membership and Secretariat.

The members also discussed on initiatives being undertaken with respect to Training as a revenue generation stream for IEEMA. Members unanimously requested Mr. Babel to steer the activity and mentor the Secretariat.

**The Seventh meeting of Council was held on March 17th, 2017 in Madurai.**

The council discussed on numerous issues like that of ELECRAMA 2018, State of the Industry, bottlenecks in transmission sector and threat from Chinese companies to National Power Grid. The Council was informed about the meeting and the presentation made before Mr. Ajit Doval, National Security Advisor on the Chinese threat. Mr Sardana, President-IEEMA stated that industry needs a concerted effort as China is coming up as a big threat to entire Indian industry. He further advised all the product groups to form a committee within their divisions which will identify the possible solutions for addressing this threat.



## GOVERNMENT INTERFACE

### Interface with Government and its Agencies

**As the voice of the electrical equipment industry, IEEMA maintained a continuous dialogue and policy interface with the government and its various agencies and is proactively engaged with them on issues of concern and challenges faced by the Indian electrical industry. Numerous meetings took place with various officials across different Ministries and Departments of Government of India during the year. A brief on some of the significant meetings is given below:**

### DELHI

#### Meeting with Power Finance Corporation

On 1st April 2016, Mr. Sunil Misra, Director General, IEEMA, had a meeting with Ms. Radhika Jha, Executive Director (IPDS), Power Finance Corporation Ltd., to discuss issues related to power theft and enhance revenue.

#### Meetings on Standardization of Distribution Transformers

On 1st April, 2016, Mr. Sunil Misra, Director General, IEEMA, called on Mr. R K Singh, Joint Secretary, Department of Heavy Industry, Government of India, to discuss Electrical Transformer Quality Control Order.

On 18th April 2016, Mr. Pawan Jain, Chairman; Mr. Alok Agarwal, Vice-Chairman, IEEMA Distribution Transformer Division; Mr. Sunil Misra, Director General and Mr. J. Pande, Senior Director, IEEMA and other members of the industry met Mr. R. K. Singh, Joint Secretary, Department of Heavy Industry, to discuss concerns over implementation of Electrical Transformer Quality Control Order. Representatives from CEA, BIS, CPRI and ERDA were also present during the meeting.

On 26th May 2016, Mr. Sunil Misra, Director

General, Mr. Sudeep Sarkar, Deputy Director, and Mr. Uttam Kumar, Executive Officer, IEEMA had a meeting with Mr. R K Singh, Joint Secretary, Department of Heavy Industry, regarding awareness Workshop on Quality Control Order of electrical transformers.

On 6th June 2016, Mr. Sunil Misra, Director General, Mr. Uttam Kumar, Executive Officer and Mr. Naveen Upreti had a meeting with Mr. R K Singh, Joint Secretary, Department of Heavy Industry. Mr. Misra expressed his gratitude to DHI for supporting the industry for the awareness workshop on electrical transformer quality control order. He conveyed his thanks to the Joint Secretary for extending the date of implementation for contracts which were placed prior to 01.02.2016, without BIS certification. Mr. Misra shared the list of officials to be engaged under the Monitoring Committee for smoother implementation of the Quality Control Order.

#### Meeting on Energy Efficient Motors

On 5th April 2016, Members of IEEMA Rotating Machines Division, met Mr. Shailendra Singh, Joint Secretary, Department of Industrial Policy and Promotion, Government of India, to discuss the need for mandating IS 12615 for Energy Efficient Motors. The Joint Secretary informed that the Department is working on the subject and matter is pending with the Department of Commerce.



*Interactive Session on Smart Grid, New Delhi*

### **Meetings on Safeguards Duty on Primary Aluminium**

On 7th April, 2016, Mr. Manish Agarwal, Chairman, Mr. Kalpesh Shah, Vice-Chairman, Mr. Chaitanya Desai, Former Chairman of IEEMA Conductor Division; and Mr. Sunil Misra, Director General, IEEMA along with other senior members of the industry, met Mr. Balvinder Kumar, Secretary and Mr. Nikunja Bihari Dhal, Joint Secretary, Ministry of Mines, Government of India, to discuss industry concerns over increase in basic customs duty on primary Aluminium and proposed Safeguard Duty on the same.

On 22nd April 2016, Mr. Chaitanya Desai, former Chairman, Conductor Division and Mr. Sunil Misra, Director General, IEEMA, along with a few other members of conductor and cable manufacturing industry, had a meeting with Mr. Vinay Chhabra, Director General, Directorate General of Safeguards, on proposed safeguards duty on Imports of Unwrought Aluminium (Aluminium not alloyed and Aluminium alloys) into India.

On the same date and subject, the above group also met Mr. Anup Wadhawan, Director General, Directorate General of Foreign Trade, Government of India.

On 27th April 2016, Mr. Kalpesh Shah, Vice-Chairman and Mr. Chaitanya Desai, former Chairman-Conductor Division, along with a

few other members of conductor and cable manufacturing industry, had a meeting with Mr. Balvinder Kumar, Secretary, Ministry of Mines, on proposed safeguards duty on Imports of Unwrought Aluminium (Aluminium not alloyed and Aluminium alloys) into India.

On the same date and subject, the above group also called on Mr. Aniruddha Kumar, Joint Secretary, Ministry of Power, Government of India.

On 29th April 2016, Mr. Chaitanya Desai, former Chairman Conductor Division, along with a few other members of conductor and cable manufacturing industry, had a meeting with Dr. Krishan Kumar Jalan, Secretary, Ministry of Micro, Small and Medium Enterprises, Government of India, on proposed safeguards duty on Imports of Unwrought Aluminium (Aluminium not alloyed and Aluminium alloys) into India.

On the same date and subject, the above group also met Mr. S N Tripathi, Additional Secretary and Development Commissioner, and Mr. S K Sahoo, Deputy Director, Ministry of Micro, Small and Medium Enterprises, Government of India.

On 23rd May 2016, Mr. Chaitanya Desai, former Chairman Conductor Division, along with a few other members of conductor and cable manufacturing industry, had a meeting



with Mr. S N Tripathi, Additional Secretary and Development Commissioner, and Mr. S K Sahoo, Deputy Director, Ministry of Micro, Small and Medium Enterprises, Government of India, on proposed safeguards duty on Imports of Unwrought Aluminium (Aluminium not alloyed and Aluminium alloys) into India.

On the same date and subject, the above group along with Mr. Sunil Misra, Director General, IEEMA, also called on Mr. Balvinder Kumar, Secretary, and Mr. Nikunja Bihari Dhal, Joint Secretary, Ministry of Mines, Government of India.

Later during the day, the same group met Mr. Rajiv Arora, Director, Directorate General of Anti-Dumping and Allied Duties, on the same issue.

On 26th May 2016, Members of IEEMA Conductor and Cable Divisions called on Mr. Vinay Chhabra, Director General (Safeguards), regarding proposed imposition of safeguards duty on imports of unwrought Aluminium.

On 20th September 2016, Mr. Vikas Khosla, Vice Chairman, Public Policy Cell along with a few Cable and Conductor manufacturing members and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting called by Mr. Piyush Goyal, Hon'ble Minister of State (I/C) of New & Renewable Energy, Mines, Power and Coal, regarding proposed imposition of Safeguards Duty on Primary Aluminium. Mr. Balvinder Kumar, Secretary, Ministry of Mines, Government of India was also present in the meeting.

On 23rd September 2016, Mr. Sunil Misra, Director General, along with a few IEEMA members and secretariat officials attended an urgent meeting called by Mr. Balvinder Kumar, Secretary, Ministry of Mines, Government of India, on proposed imposition of Safeguards Duty on Primary Aluminium.

On 20th October 2016, Mr. Surendra Rawat from Ravin Cables Ltd. and Mr. Sudeep

Sarkar, Director, IEEMA meeting called by Mr. Balvinder Kumar, Secretary, Ministry of Mines, Government of India, attended a meeting called by Mr. Balvinder Kumar, Secretary, Ministry of Mines, Government of India, on proposed imposition of MIP / Safeguards Duty on Primary Aluminium. Mr. Subhash Chandra, Joint Secretary, Ministry of Mines, was also present in the meeting.

### **Meetings on Inverted Duty Structure**

On 23rd May 2016, Mr. Sunil Misra, Director General, IEEMA, had a meeting with Mr. B N Sharma, Additional Secretary, Revenue, Ministry of Finance, Government of India, on inverted duty and other issues of the industry.

On 1st June 2016, Mr. Sunil Misra, Director General, Ms. Niharika Jaiswal, Head Accounts and Mr. Sudeep Sarkar, Deputy Director, IEEMA, called on Mr. B N Sharma, Additional Secretary, Department of Revenue, Ministry of Finance, Government of India. Industry issues, including instances of inverted duties, were discussed in the meeting.

On 3rd August 2016, a few Conductor manufacturing members and Mr. Sudeep Sarkar, Deputy Director, IEEMA, had a meeting with senior officials of Tariff Commission, Ministry of Commerce & Industry, regarding inverted duties and anomalies in manufacturing of electrical conductors. IEEMA had earlier represented to the Tariff Commission and the department of Industrial Policy and Promotion a few instances of inverted duties and anomalies in the electrical equipment manufacturing industry.

### **Meeting on Mandatory BIS Standards on Cables**

On 24th May 2016, Mr. J Pande, Sr. Director and Mr. Sudeep Sarkar, Deputy Director, IEEMA, had a meeting with Mr. Zakharia Khan, Senior Development Officer, Department of Industrial Policy and Promotion, Government of India, on mandatory BIS standards on cables.



## Meetings on Testing Facilities

On 26th May 2016, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Deputy Director, IEEMA, had a follow-up meeting with Ministry of Power on the issue of non-acceptance of Central Power Research Institute (CPRI) test certificates in some foreign countries. The meeting was chaired by Mr. Raj Pal, Economic Advisor, Ministry of Power, Government of India. Representatives of CPRI and Department of Commerce were also present in the meeting. The deliberations included measures taken by CPRI to promote it abroad.

On 3rd February 2017, Mr. J Pande, Senior Director, Mr. Uttam Kumar, Executive Officer, IEEMA, attended a meeting of the Working Group of Testing Facilities, at the Department of Heavy Industry, Government of India. The meeting was chaired by Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry. Discussions were held regarding urgent requirement of testing lab for distribution transformer testing in

northern region in view of concentration of such manufacturers in northern India. IEEMA informed that NTH Ghaziabad and NTH Kolkata are the two labs which can be used for testing of distribution transformer other than CPRI & ERDA. IEEMA also informed that gaps in testing facilities of 8 product groups were shared with CPRI, where interactions have started at division level.

On 20th February 2017, Mr. Sunil Misra, Director General, IEEMA, called on Mr. U Thanu, Director General, National Test House, on the issues related to the inclusion of NTH, Ghaziabad and NTH, Kolkata as recognized laboratories by Bureau of Indian Standards for testing of Distribution Transformers up to 2.5 MVA as per IS 1180 (Part-1):2014. The inclusion shall ease out transformer testing backlogs at CPRI and ERDA.

On 28th February 2017, Mr. Sunil Misra, Director General, and Mr. Uttam Kumar, Executive Officer, IEEMA met Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, Government of India,



Inauguration of E3- Energize, Empower, East 2016

regarding the issues related to Electrical Transformer (Quality Control) Order and for inclusion of NTH, Ghaziabad and NTH, Kolkata as recognized laboratories by Bureau of Indian Standards for testing of Distribution Transformers upto 2.5 MVA as per IS1180 (Part-1):2014.

### **Meetings on Regional Comprehensive Economic Partnership**

On 27th May 2016, Mr. Sudeep Sarkar, Deputy Director, IEEMA, participated in the meeting called by Mr. Dammu Ravi, Joint Secretary, Department of Commerce, Government of India on Rules of Origin criteria under Regional Comprehensive Economic Partnership (RCEP) agreement. Ms. Anice Joseph Chandra, Director, Department of Commerce and representative of other associations were also present in the meeting.

On 29th July 2016, Mr. Sudeep Sarkar, Deputy Director, IEEMA, participated in the meeting called by Ms. Anice Joseph Chandra, Director, Department of Commerce, Government of India, on Rules of Origin criteria under Regional Comprehensive Economic Partnership (RCEP) agreement. The Rules of Origin under RCEP was discussed in the meeting.

On 29th November 2016, Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting called by Mr. Anup Wadhwan, Additional Secretary, Department of Commerce, Government of India, on Rules of Origin criteria under Regional Comprehensive Economic Partnership (RCEP) agreement.

On 10th February 2017, Mr. Vikas Khosla, Chairman, Public Policy Cell, Mr. Chaitanya Desai, Executive Council Member, Ms. Sonal Gariba, Member, and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting chaired by Mr. Bipin Menon, Director, Department of Commerce, Government of India, regarding the issue of India's negotiating position on Copper and Aluminium lines under RCEP Agreement.

On 15th February 2017, Mr. Vikas Khosla, Vice Chairman Public Policy Cell and Mr. Sudeep Sarkar, Director, IEEMA, had a meeting with Ms. Anice Joseph Chandra, Director, Department of Commerce, Government of India, on Rules of Origin for products related to Chapter 85, under RCEP Agreement.

### **Meeting on Promotion of Green Energy Sector Products**

On 2nd June 2016, a meeting was convened by Mr. Ravi Capoor, Joint Secretary, Department of Commerce, Government of India, to discuss the need for Promotion of Green Energy Sector Products mainly Solar, Wind and Biogas. The meeting was attended by Industry Associations and Industry representatives working in the field of Renewable sector, Consultants, MNRE, MOP, EEPC. Mr. K Chaturvedi, Vice President, Vikram Solar; Mr. Sunil Misra, Director General and Mr. Vivek Arora, Executive Officer attended the meeting on behalf of IEEMA.

### **Meetings on Slow Process of Purchase Orders by DISCOMs under DDUGJY and IPDS Schemes**

On 7th June 2016, a delegation of IEEMA Distribution Transformer Division, led by its Chairman, Mr. Pawan Jain, called on Dr. Arun Kumar Verma, Joint Secretary, Ministry of Power, Government of India, and apprised him about the slow process by the DISCOMs regarding issue of purchase orders against the orders issued under DDUGJY and IPDS Schemes. Dr. Verma assured the IEEMA delegation that sanctity of tender process will be followed and Discom concerns regarding rates will be evaluated w.r.t the difference in tender specifications.

On 7th June 2016, a delegation of IEEMA Distribution Transformer Division, led by its Chairman, Mr. Pawan Jain, met Mr. S D Dubey, Chairperson, Central Electricity Authority and apprised him about the slow process by the DISCOMs regarding issue of purchase orders against the orders issued under DDUGJY and IPDS Schemes.

On 7th June 2016, a delegation of IEEMA T&D Projects Division, led by its Chairman, Mr. Harish Agarwal, had a meeting with Ms. Jyoti Arora, Joint Secretary, Ministry of Power, Government of India, to discuss the Standard Terms and Conditions for Turnkey Transmission, Distribution and Sub-Station contracts.

### **Meeting on India-Thailand Joint Business Forum**

On 16th and 17th June 2016, Mr. Sudeep Sarkar, Deputy Director, IEEMA, participated in the meeting of India-Thailand Joint Business Forum coinciding with the visit of Prime Minister of Thailand. Business Cooperation and investments in both the countries were discussed in the forum meeting.

### **Meeting on Boosting of Exports in African Continent**

On 1st July 2016, Mr. Sanjeev Sardana, then President Elect and Mr. Sudeep Sarkar, Deputy Director, IEEMA, participated in a meeting regarding boosting of exports in African continent. The meeting was chaired by Mr. Manoj Dwivedi, Joint Secretary, in presence of other senior officials of Department of Commerce, Government of India. IEEMA recommended on strategizing barter arrangements for emerging markets in Africa, specialised lines of credit for power projects, facilitation by Indian missions and removal of non-tariff barriers as some of the measures for promotion of exporters in Africa.

### **Meeting on Issues of Small and Medium Enterprises in Electrical Industry**

A delegation of IEEMA SME Division Members, led by Mr. J G Kulkarni, Chairman, SME Division and Past President, IEEMA, had a meeting with Mr. S N Tripathy, Additional Secretary and Development Commissioner, Ministry of Micro, Small and Medium Enterprises, Government of India, on 8th July 2016. IEEMA made a presentation to Mr. Tripathy on the financial, procedural and technical problems faced by Small and Medium Enterprises in

electrical equipment industry in dealing with power utilities/discoms.

### **Meeting on Skill Development**

On 5th July 2016, Mr. Gopal Krishna Mallik, Head HR, IEEMA, attended a meeting chaired by the Joint Secretary, Ministry of Skill Development and Entrepreneurship. Issues regarding Standardisation of infrastructure, machineries and equipment which is, under both government and private sector, were discussed in the meeting.

### **Meeting with Department of Electronics and Information Technology**

On 5th July 2016, Ms. Anita Gupta, Deputy Director and Mr. Vivek Arora, Executive Officer, IEEMA, had a meeting with Mr. Arvind Kumar, Senior Director, STQC, Department of Electronics and Information Technology (DeitY), Government of India. The composition of advisory board of DeitY and its activities were discussed in the meeting. DeitY agreed to include IEEMA as a regular member of a special invitee in the advisory board of DeitY.

### **Meeting with Powergrid**

On 15th July 2016, Mr. Pawan Jain, Chairman, Transformer Division and Mr. Sunil Misra, Director General, IEEMA, called on Mr. R P Sasmal, Director (Projects & Operations), Powergrid. Amongst other issues, bidding procedures under Deen Dayal Upadhyaya Gram Jyoti Yojana was discussed in the meeting.

### **Meeting on IEEMA Reverse Buyer-Seller Meet**

On 15th July 2016, Mr. Sunil Misra, Director General, Mr. Sudeep Sarkar, Deputy Director and Mr. Maneesh Anand, Senior Executive, IEEMA, called on Mr. Ravi Capoor, Joint Secretary, Department of Commerce, Government of India, and formally handed over a Post Show / Outcome Report of ChangeXChange 2016 – 3rd Reverse Buyer-Seller Meet (RBSM), organised by IEEMA, during ELECRAMA-2016 at Bangalore. The event was organised with support



of Department of Commerce, under the Market Access Initiative (MAI) Scheme. ChangeXchange 2016 was attended by 581 buyers from 37 countries of AFRICA, ASEAN, SAARC, CIS and IRAN, who met Indian sellers exhibiting in ELECRAMA-2016.



*Mr. Sunil Misra, DG, IEEMA with Mr. Ravi Capoor, JS, MoC*

### **Meetings with Central Electricity Authority**

On 20th July 2016, a delegation of senior members of IEEMA, led by Mr. Vikas Khosla, Vice Chairman, Public Policy Cell; called on Mr. S D Dubey, Chairman, Central Electricity Authority. Discussions were on statutory compliance of the guidelines issued by Central Electricity Authority on domestic competitive bidding for domestically funded projects and the matter of L1 pricing under tariff based competitive bidding without considering the product life cycle cost. IEEMA also invited Mr. Dubey to be on the advisory committee of INTELECT 2017, which he agreed.

On 27th February 2017, Mr. Uttam Kumar and Mr. Akeel Khan, Executive Officers, IEEMA, attended the 2nd meeting of the Committee for preparation of Perspective Plan for Distribution Sector for Northern & Eastern Region at Central Electricity Authority, Sewa Bhawan, New Delhi. The meeting was chaired by Mr. Ghanshyam Prasad, Chief Engineer,

Distribution Planning and Development Division, Central Electricity Authority. The meeting was also attended by officials from NESCO, CESC, DVC, REC, PFC, WBSEDCL, PuVVNL, PVVNL, J&K Power Department, BSES, UHBVNL.

### **Meetings on INTELECT 2017**

On 1st August 2016 Mr. Babu Babel, President, Mr. Prakash Chandrakar, Chairman-Organising Committee, INTELECT 2017 and Mr. Sunil Misra, Director General, IEEMA, met Mr. Piyush Goyal, Hon'ble Minister of State (I/C) for Power, Coal, New and Renewable Energy and Mines. IEEMA officials briefed the Hon'ble minister on Intellect 2017 exhibition and also invited him to be the Chief Guest of 69th Annual General Meeting of IEEMA, scheduled on 30th September 2016.

On 8th December 2016, Mr. Sunil Misra, Director General, IEEMA met Mr. Arun Kumar Verma, Joint Secretary, Ministry of Power to request his presence at INTELECT 2017.

On 9th December 2016, Mr. Sunil Misra, Director General, IEEMA met Mr. Girish Shanker, Secretary, DHI to request his presence at INTELECT 2017.

### **Meetings on Capital Goods**

On 5th August 2016, Ms. Anita Gupta, Deputy Director, IEEMA attended a preparatory meeting of Inter-Ministerial Standing Committee set up on Capital Goods by Department of Heavy Industry, Government of India. The meeting was chaired by Mr. Vishwajit Sahay, Joint Secretary, Department of Heavy Industry. The terms of reference of the Standing Committee were deliberated upon at the meeting.

On 2nd November 2016, Mr. Sunil Misra, Director General, IEEMA, attended a meeting on Capital Goods at Department of Heavy Industry, Government of India. The meeting was chaired by Mr. Vishwajit Shay, Joint Secretary, Department of Heavy Industry.

On 8th March 2017, Mr. R K Chugh, Member

Executive Council and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting of newly constituted Inter-Ministerial Committee for Development of Capital Goods Industry. Mr. Girish Shankar, Secretary, Department of Heavy Industry, Government of India, chaired the meeting. Issues on public procurement and inverted duty structure faced by the Capital Goods industry were discussed in the meeting. Mr. Sivanand Nyshadham, Joint Secretary and Ms. Ritu Pande, Director, Department of Heavy Industry, also attended the meeting.

### **Meetings with Mr. Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines**

On 18th August 2016, Mr. Manish Agarwal, Chairman, Mr. Kalpesh Shah, Vice-Chairman, Conductor Division, Mr. Vikas Khosla, Vice-Chairman, Public Policy Cell, Mr. Chaitanya Desai, Member, Executive Council, along with other senior members of IEEMA and Secretariat officials had a meeting with Mr. Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines. The discussions were broadly on initiation of safeguard duty on primary Aluminium, concessional duty imports under

Chapter 98, issues with funding organisations, such as KFW/JICA, implementation of CEA advisory for domestically funded projects, and mismatch in specifications being tendered by utilities, such as, Powergrid under Dayal Upadhyaya Gram Jyoti Yojana.

On 4th January 2017, a delegation of IEEMA members, led by Mr. Sanjeev Sardana, President, attended a meeting called by Mr. Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines, Government of India. The Hon'ble Minister assured that in case of any increase in import duty or imposition of MIP on primary Aluminium, the Government would protect the downstream industries by equivalent increase of import duty / MIP, to nullify the incidents of inverted duty structure.

The other major points for discussions were adverse impact of power project imports at a concessional duty of 5% under Chapter 98, non-implementation of Central Electricity Authority guidelines on domestic procurement, cyber security threat to electrical grid, export promotion of electrical equipment and support to judicious mix of ceramic and polymer insulator technologies.



Inaugural of INTELECT & DistribuELEC 2017



### Meeting on Intellectual Property Rights

On 23rd August 2016, Mr. Sudeep Sarkar, Deputy Director, IEEMA, attended a meeting on promotion of Intellectual Property Rights Policy at Department of Industrial Policy and Promotion, Government of India. Mr. Ramesh Abhishek, Secretary, Department of Industrial Policy and Promotion, chaired the meeting.

### Meetings on Union Budget 2017-18

On 22nd September 2016, IEEMA Economic and Taxation Committee members, led by Mr. Adarsh Jain, Chairman and Mr. G S Sharma, former Chairman, had a Pre-Budget Meeting with Senior Officials of Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, Government of India. The meeting was chaired by Ms. Sangeeta Verma, Principal Economic Adviser, in presence of Ms. Seema Gaur, Economic Adviser; Ms. Kokila Jayaraman, Deputy Director; Ms. Shalini Gupta, Assistant Director; Mr. Zakaria Khan, Senior Development Officer; Mr. Ningthoujam Ajit Singh, Economic Officer; and Mr. Ashish Banerjee, Economic Officer, DIPP. IEEMA made a power point presentation on key recommendations of the Association for Budget 2017-18.

IEEMA Economic and Taxation Committee members, led by Mr. Adarsh Jain, Chairman and Mr. G S Sharma, former Chairman, had a Pre-Budget Meeting with Senior Officials of Ministry of Finance, Government of India, on 10th November 2016. The meeting was chaired by Mr. Najib Shah, Chairman, Central Board of Excise and Customs; in presence of Mr. Ram Tirath, Member (Budget) and Mr. Alok Shukla, Joint Secretary (Tax Research Unit 1), Ministry of Finance. IEEMA made a presentation on the key recommendations of the Association for Budget 2017-18.

On 3rd February 2017, Mr. Vikas Khosla, Chairman, Public Policy Cell, Mr. Adarsh Jain, Chairman, IEEMA Economic and Taxation Committee and Mr. Sudeep Sarkar, Director, IEEMA, attended an interactive session with Mr. Arun Jaitley, Hon'ble Minister of Finance, Government of India, regarding Union Budget 2017-18. Dr. Hasmukh Adhia, Revenue Secretary, Mr. Shaktikanta Das, Secretary, Department of Revenue along with other senior officials of Central Board of Excise and Customs and Central Board of Direct Taxes were present during the session.



Lamp Lighting at 10th T&D Industry Conclave



### **Meeting on Brand India Engineering**

On 22nd September 2016, IEEMA attended a meeting called by Department of Commerce, Government of India, to review the progress on the branding action plan for Brand India Engineering Campaign of Electrical Machinery & Equipment. The meeting was chaired by Mr. Bhubinder S Bhalla, Joint Secretary, Department of Commerce and CEO, India Brand Equity Fund (IBEF) and attended by Dr Shobhit Jain, Director, Department of Commerce and Deputy CEO, IBEF, Mr. N. Ramakrishnan, Deputy Secretary, Mr. N. Muthukumar, Section Officer, Department of Commerce, Mr. Bhaskar Sarkar, Executive Director, Mr. Gurvinder Singh, Joint Director, EEPC India. Ms. Rachna Pawa, Head – Corporate Communications and Mr. Sudeep Sarkar, Director, represented IEEMA at the meeting. The discussion revolved around linking the Electrical Equipment website of Brand India Engineering to IEEMA website. The 3 stakeholders – IBEF, IEEMA & EEPC to make a communications strategy to reach out to potential buyers in identified regions. This will include exhibitions/conferences, advertisements in print magazine & newspapers, digital & Social media, factory visits and interviews.

### **Meeting on likely Impact of Goods & Services Tax on MSME**

On 14th October 2016, Mr. Adarsh Jain, Chairman, Economic and Taxation Committee, Mr. Anand Thakur, KEI Industries Ltd. and Mr. Sudeep Sarkar, Director, IEEMA attended a meeting on Impact of Goods & Services Tax on MSME. The meeting was chaired by Mr. Kalraj Mishra, Hon'ble Minister for Micro, Small and Medium Enterprises, Government of India, in presence of Mr. Haribhai P Chaudhary and Mr. Giriraj Singh, Hon'ble Ministers of State for Micro, Small and Medium Enterprises. Other senior Government officials present in the meeting were Dr. Krishan Kumar Jalan, Secretary, Mr. Surendra Nath Tripathy, Additional Secretary

and Development Commissioner, Ministry of MSME; Mr. P K Mohanty and Mr. Shashank Priya from Directorate of Goods & Service Tax. Representatives of various associations presented the likely impact of GST on MSME and also gave their suggestions on the same.

### **Meetings on Grant of Fund under Market Access Initiative Scheme**

On 17th October 2016, Capt. Vilas Katre, Organising Secretary, ELECRAMA-2018, Ms. Manjushree Shah, Convenor, Metering India-2017, Mr. JPande, Senior Director and Mr. Sudeep Sarkar, Director, IEEMA, attended the Sub-Committee meeting for grant of Market Access Initiative (MAI) assistance for financial year 2017-18. The meeting was chaired by Mr. Ali Rizvi, Joint Secretary, Department of Commerce, Government of India. IEEMA had submitted two applications for MAI assistance, namely, ChangeXChange-2018 (RBSM) at ELECRAMA-2018 and RBSM at Metering India-2017. Both these projects were approved by the Department of Commerce.

On 11th November 2016, Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. Rajeev Kumar, Under Secretary, Department of Commerce, regarding IEEMA proposals for MAI grant submitted to the Government for the year 2017-18.

On 22nd November 2016, Capt. Vilas Katre, Organising Secretary, ELECRAMA-2018 and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting of the Empowered Committee of MAI, chaired by Ms. Rita Teotia, Commerce Secretary, Government of India. IEEMA had submitted to Department of Commerce, two RBSM proposals for MAI grant in the year 2017-18, namely; RBSM in Electric Metering and Services Sector - 6th to 8th April 2017 and RBSM in Electrical and Industrial Electronics Sector - 10th to 14th March 2018. The Empowered Committee approved MAI grant of INR 51,80,000 and INR 5,00,00,000 respectively, for two RBSM proposals of IEEMA.

### **Meeting on Foreign Direct Investments / Joint Ventures / Technology Transfer from Japan**

On 24th October 2016, Mr. Sanjeev Sardana, President and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting called by Department of Heavy Industry, Government of India, to discuss Foreign Direct Investments / Joint Ventures / Technology Transfer from Japan. Mr. Anshu Prakash, Additional Secretary, Department of Heavy Industry, chaired the meeting.

### **Meetings on Status of Indian electrical equipment industry its Mission Plan 2012-2022**

On 29th September 2016, Mr. Sudeep Sarkar, Director, IEEMA, called on Ms. Sanyukta Samaddar, Director, Department of Heavy Industry, Government of India, to deliberate on present status of actions taken on Mission Plan 2012-22 for Indian electrical equipment industry.

On 2nd November 2016, Mr. Sunil Misra, Director General, IEEMA, called on Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, Government of India, to apprise him about the status of Indian electrical equipment industry and its Mission Plan 2012-2022.

On 2nd November 2016, Mr. Sunil Misra, Director General, IEEMA, called on Ms. Shalini Prasad, Additional Secretary, Ministry of Power, Government of India, on status of Indian electrical equipment industry.

On 24th November 2016, Mr. Vikas Khosla, Vice Chairman, Public Policy Cell, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting called by Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, Government of India, to deliberate on present status of actions taken on Mission Plan 2012-22 for Indian electrical equipment industry.

On 13th December 2016, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar,

Director, IEEMA, met Mr. K K Tiwari, Industrial Adviser, Department of Heavy Industry, Government of India, to review the action points of Indian Electrical Industry Mission Plan 2012-22.

On 15th December 2016, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, Government of India, to deliberate on the actions taken on decisions of the review meeting on Mission Plan 2012-22 for Indian electrical equipment industry.

### **Meetings on Cyber Security Threat to Electrical Grids**

On 13th December 2016, Mr. Sunil Misra, Director General, Mr. Ajay Mahajan, Head Trade Fairs Marketing and Mr. Sudeep Sarkar, Director, IEEMA, called on Mr. P K Pujari, Secretary, Ministry of Power, Government of India, to discuss cyber security threat to grids where remotely controlled electrical equipment are installed. IEEMA also requested the Ministry of Power to get the vendor development policy practised in Gujarat adopted by all utilities of the country. Secretary, Power was invited to INTELECT 2017 scheduled from 23rd to 25th January 2017 at Greater NOIDA.

On 13th February 2017, a delegation of members, led by Mr. Sanjeev Sardana, President, IEEMA, attended a meeting called by Mr. Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industry, Government of India, on Cyber Security threat to critical power systems installed in the country. A working group was set up to study the Internet of Things (IOT) and revisit the standards in order to ensure whether adequate security feature is embedded within the system in the present scenario and also for the future.

### **Meeting on Index of Industrial Production**

On 3rd January 2017, Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting of Technical Review Committee of Index of

Industrial Production (IIP). The meeting was chaired by Director General, Central Statistical Office, Ministry of Statistics and Programme Implementation, Government of India. Non-availability of information with Central Electricity Authority on Renewal Energy Generation before 1st April 2014 was deliberated in the meeting.

### **Meeting on India-Korea CEPA**

On 31st January 2017, Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting to review the impact of India-Korea CEPA at Department of Industrial Policy and Promotion, Government of India, The meeting was chaired by Ms. Seema Gaur, Economic Adviser, DIPP.

### **Meetings on ELECRAMA-2018**

On 6th February 2017, a delegation led by Mr. Vijay Karia, Chairman, ELECRAMA-2018, called on Mr. Anil Kumar Jain, Adviser – Energy, NITI Aayog, to request support of NITI Aayog in organising World Electricity Summit, which is being conducted concurrently with ELECRAMA-2018.

On 6th February 2017, a delegation led by Mr. Vijay Karia, Chairman, ELECRAMA-2018, called on Mr. Atul Chaturvedi, Additional Secretary, Department of Industrial Policy and Promotion, Government of India, to request support of DIPP in organising World Electricity Summit, which is being conducted concurrently with ELECRAMA-2018.

### **Meetings on RE-INVEST**

On 16th February 2017, Mr. Sunil Misra, Director General and Cdr. (Retd.) Parijat Sinha, Head Operations, IEEMA, attended a meeting called by Mr. Rajeev Kapoor, Secretary, Ministry of New and Renewable Energy on RE-INVEST.

On 17th February 2017, Mr. Sanjeev Sardana, President and Mr. Sunil Misra, Director General, IEEMA, attended a meeting, chaired by Mr. Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines, Government of India on

RE-INVEST. The event is scheduled from 24–26 September 2017 at Gandhinagar, Gujarat. It was decided that each organising partner, such as, IREDA, CII, FICCI, IEEMA, Yes Bank etc. will own specific roles with clearly defined responsibilities.

### **Meeting on Foreign Trade Policy**

On 22nd February 2017, members of IEEMA Economic and Taxation Committee, led by its former Chairman, Mr. G S Sharma; attended a meeting on Mid-Term Review of Foreign Trade Policy, at the Department of Industrial Policy and Promotion (DIPP). Ms. Preeti Madan, Senior Economic Advisor, DIPP, chaired the meeting. Ms. Seema Gaur, Economic Advisor, along with other senior officials of DIPP, was also present in the meeting.

### **Meeting with Competition Commission of India**

On 23rd February 2017, Mr. J Pande, Senior Director and Mr. Sudeep Sarkar, Director, IEEMA, called on Ms. Garima Bhagat, Joint Director General, Competition Commission of India. IGBT based, Capacitor based and Thyristor based technologies for power quality compensation were discussed in the meeting.

### **Meeting on Industry 4.0**

On 3rd March 2017, Mr. Vikas Khosla, Vice Chairman, Public Policy Cell, Mr. Sunil Misra, Director General and Mr. Sudeep Sarkar, Director, IEEMA, attended a meeting Chaired by Mr. Ramesh Abhishek, Secretary, Department of Industrial Policy and Promotion, Government of India, on formulation of a policy on Industry 4.0. The department invited all stakeholders including the industry associations and the academic institutions to understand the components of Industry 4.0 and the feasibility of a Government policy in this regard.



## MUMBAI

### **27th April, 2016 Meeting with Mr. Rajeev, IAS, CMD, Maharashtra State Electricity Transmission Company Ltd (MSETCL)**

The meeting was held to discuss possible long term engagement with the associations. CMD, MSETCL was extremely forthcoming and urged IEEMA to engage in conduct of workshop for the staff at implementation level. He suggested a two pronged approach:-

- (a) Educate the engineers (especially those who have spent long years) on new technology (fields such as conductors and cables, switchgears, surge arrestors and power transformers)
- (b) Allay fears of change over to new technology and the advantages
- (c) Behavioural aspects such as apprehension of accidents during monsoons (tap changers, etc) and resultant reluctance towards rectification
- (d) He was keen that element of neutrality (to ensure acceptance of proposals at all levels) could be ensured through representation by technical institutes, standards organisation in the interaction forum

### **26th July 2016 Dr. Sonia Sethi, IAS, Additional Director General of Foreign Trade, Directorate General of Foreign Trade (DGFT)**

The meeting was mainly to invite Dr. Sonia Sethi, to IEEMA SME Workshop on "SUSTAINABLE GROWTH THROUGH SME emPOWERment" on 6th August 2016 at the "Millennium Hall, Hotel Ramada, Navi Mumbai. Cdr. Sinha introduced IEEMA and its activities to her and how IEEMA is working closing with the Government through various divisions. The discussion took place on the electrical equipment industry exports and imports segments, how IEEMA can help the Industry to go global, the research part of

electrical industry and what are the areas of improvement to increase exports.

### **Meeting with Mr. Sanjeev Kumar, CMD – MSEDCL**

A delegation from the Zonal Chapter, IEEMA under chairmanship of Mr. Chaitanya Desai, CMD, Apar Industries Limited met Mr. Sanjeev Kumar, CMD, MSEDCL on 16th September 2016.

The delegation comprised of following IEEMA members.

Mr. Madhav Digraskar, MD & CEO, Cable Corporation of India Ltd.,

Mr. Pradeep Modi, Business Head-Asia & Middle East, A.Eberle Systems Pvt. Ltd.,

Mr. Jagdish Markenday, Head Marketing – West – Elster Metering (P) Ltd.,

Mr. K. B. Patil, DGM – Sales, Apar Industries Limited

Mr. Suryanarayana Gude, Senior Manager – Marketing – Toshiba Transmission and Distributions Systems (India) Pvt. Ltd.,

Mr. Srinivas Chaitanya, AGM – Sales & Marketing, Hitachi Metals (India) Pvt. Ltd.

Mr. Rajesh Parab - IEEMA

MSEDCL was represented by Mr. Prabhakar Hazare, Superintending Engineer – Distribution.

Discussions revolved around issues pertaining to scaling up product line, quality and technology readiness to address distribution losses, human losses, security, energy conservation, energy efficiency, Innovations, technical advancement and best practices used in power sector worldwide.

CMD, MSEDCL requested for IEEMA's input and technological solution in the following areas:-

1. Reactive Power Control

2. High Loss equipment and Technology / engineering solutions proposed to reduce them.
3. Metering (Whether they can be tampered through Remote means?)
4. New Technology may be considered in new projects with cost-benefit (example : GIS)

He also suggested that IEEMA forms a core advisory group from the industry and similarly asked Superintending Engineer Distribution Mr. Prabhakar Hazare to form a core group to work in the above areas from field engineering. These group should ideally meet every month, either physically or through VC to provide inputs and become a collaborative partner besides sharing data on pertinent subjects.



Mr.. Chaitanya Desai, CMD, Apar Industries Limited with Mr. Sanjeev Kumar, CMD, MSEDCL

### **Meeting with H. E. Rosimar Suzano, Consul General, Consulate General of Brazil and Ms. Lizann Lopes Lobo, Trade Officer**

On September 16, IEEMA officials met H. E. Rosimar Suzano, Consul General, Consulate General of Brazil and Ms. Lizann Lopes Lobo, Trade Officer to invite them for IEEMA annual convention to be held in Mumbai on September 30, 2016. Cdr. Sinha introduced IEEMA and its activities to the Consul General and how closely IEEMA is working with the Government and Embassies through its divisions. The discussion widely took place

on the status of electrical equipment industry, exports and imports segments, and how IEEMA is helping electrical Industry players to get into the International arena.

The concern over low exports and areas of improvement was also discussed in the meeting. Consul General felt that IEEMA and Consulate should work together to promote the bilateral trade between the countries. She informed that 14 companies from various sector from Brazil participating in 8th BRICS Summit to be hosted by India. She requested IEEMA to circulate the profiles of the companies to its membership and help them form JV/Partnership and take bilateral trade relations forward.



Meeting with H. E. Rosimar Suzano, Consul General, Consulate General of Brazil and Ms. Lizann Lopes Lobo, Trade Officer BANGALORE



IEEMA SME Workshop at Mumbai

## BANGALORE

A meeting to discuss "Amendment in Contract Terms & Conditions for Supply of Electrical Equipment" was convened on 30th May 2017. 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.

IEEMA, Bangalore organised Karnataka Chapter Meetings on 3rd June 2016, 24th September 2016 and 2nd December 2016.



IEEMA International Business Division & Karnataka Chapter meet

IEEMA, Bangalore conducted workshops on :

### 1. Global Certifications – Compliance Requirements for Products – 29.7.16

This one day workshop was designed to give essential information about the regulatory requirements and step-by-step instruction on how to develop a right Compliance Strategy for a product.



IEEMA Karnataka Chapter Meeting at Bengaluru

This workshop provided participants with important fundamentals, including definitions of key terms and details for placing product in the European Union, North America, Middle East, Gulf and few key African markets.

### 2. Reactive Power Management and Power Quality – 14.10.16

Reactive Power Management has become very important now-a-days because of introduction of power factor based tariff. Power Factor (PF) is crucial in all Electrical Power utilizing environments. A good understanding of Power Factor is essential for practicing Electrical Engineers and middle level managers as a good control of PF could lead to many advantages - energy saving, reduction of current loading, higher output from motor and generators, longer life for cables and equipment - to mention a few.

However, the equipment that is used to improve power factor interacts with network harmonics and brings down overall reliability. This programme addressed such issues and gave solution to mitigate these problems.



Workshop on Best Earthing Practices

### 3. Best Earthing Practices – 6.12.16

Earthing as a topic is as old as electricity and undoubtedly critical. However, practically, many a times it takes a back seat in the overall scheme of things in Electrical and Electronics





engineering. Incorrect earthing practices invariably have adverse short term and long term operational and financial implications. The problems faced can be intermittent or continual and at times difficult to diagnose.

The aim of this workshop was to understand the topic from the core concepts and imbibe the best practices so that the participants are enabled to reduce expensive downtime of their installations or equipment

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 on 18.5.17.



*Interactive session of Elevators & Escalators Division*

## KOLKATA

### Meetings of Eastern Region Committee

**The first ERC meeting** of 2016 took place in Kolkata on 15th April'2016. It was first ERC meeting after ELECRAMA 2016. The meeting started off with the confirmation of the minutes of the last ERC meeting which took place on Dec2015. After the minutes Mr. R K Shah, Chairman, ERC requested Mr. Harish Agarwal to appraise the members about the recently concluded ELECRAMA 2016 and how it was different from the previous ELECRAMA in 2014. He made a very short presentation about ELECRAMA 2016 and how

it has surpassed the previous editions by its sheer size that has increased manifolds. The 2016 edition has also surpassed the earlier editions in terms of quality of footfalls and participation of all the stakeholders of power industry. It has also showcased some new initiatives like N2N, 125 Years of Electricity.

The guest speaker was Mr. Debasish Mohapatra, Associate Director – Power & Utilities, PWC. He gave an insightful and analytic presentation about "UDAY", which was well appreciated by all members. It was followed by a presentation on the state of the industry from IEEMA secretariat and a presentation on forthcoming training programmes on "Industrial and Labour Laws" by Kolkata IEEMA. The secretariat requested all the present members to nominate middle and senior level candidates for the training programme. The Chairman requested Subham Enterprise, one of the fabricators shortlisted for the eastern region E3 Summit scheduled in Kolkata from 18th – 20th Nov'16. The attempt was to understand the branding part of the E3 Summit and how it can be done by a visual presentation of it. The meeting was closed by Mr. S K Ghosh from Allied Ceramics by thanking the present members for attending the meeting and invited everyone to proceed for the dinner.

**Second meeting of ERC** took place in Kolkata on 8th July'16 at Palladian Lounge, Kolkata. The meeting was chaired by Mr. R K Shah, Chairman, Eastern Region, IEEMA. The ERC meeting was also graced by Mr. Sunil Misra, Director General, IEEMA. The meeting started off with confirmation of the minutes of the previous meeting and then all the present members discussed about the state of the industry. During the meeting, DG also suggested that the State of the Industry report should be circulated among the members before the meeting so that they can come well prepared with their valuable inputs. Chairman and the present members also acknowledged the suggestion and the secretariat has been intimated to

follow the process for the future meetings. Then an informal interaction took place between DG and the present members and DG appraised the members about the current developments that took place various policy making authorities like CEA, BIS, MoP etc.

The members also discussed on the viability and applicability of the Type Test Report and it was suggested to Secretariat that they should circulate the same among the members so that they can give their inputs on the same.

The members were also given an update on the forthcoming summit of Eastern Region, E3. For this two creative agencies Orion and Web Spiders along with Mr. Kalyan Saha from Skipper gave a detailed presentation on E3 website, mobile app and how E3 can be relevant for the members. The members really appreciated the creative work and asked the secretariat to send the details so that they can start the booking. Formally E3 was launched by unwrapping the brochures for the event by Mr. Harish Agarwal, Vice President, IEEMA and Mr. Sunil Misra, DG, IEEMA.

The meeting was well attended by more than 45 members from IEEMA, Eastern Region.

**The Third meeting of ERC** held on 23rd December 2016 at Kolkata. The meeting started with the confirmation of the minutes of the previous meeting and the guests, Mr. Sanjeev Seth, President – Distribution and Mr. Bhavni Prasad Rao, Jt. Vice president – Commercial & Strategy, who had come on invitation were introduced to all the present members.

A brief presentation was made by E-Plan software for electrical manufacturing units and utilities. The presentation was followed by update on Intellect & Distribuelec 2017. After that members interacted with guests from India Power on recent trend in the industry. Then there was brief presentation on recently

concluded E3 made by IEEMA secretariat and it was followed by concluding remarks from Mr. Harish Agarwal, Vice President, IEEMA, Mr. R K Shah, Chairman, Eastern Region, IEEMA and DG, IEEMA.

The meeting was well attended by 25 members excluding secretariat.

**The Fourth meeting of ERC** held on 17th February 2017 at Kolkata. Started with the confirmation of the minutes of the previous meeting and the guests, Mr. Rajarshi Dasgupta, Arijit Chakraborty and Ms. Seema Mohnat from KPMG were introduced to all the present members. They were invited to present a brief analysis on recently concluded budget and its impact on the electrical sector as a whole.

On the State of the Industry, all members present discussed on the current trend and the possible opportunities that may surface in the near future. The members also suggested that in the state of the industry it should not only focus on the domestic market but there should be specific focus on the export market also.

During KPMG's presentation, members were actively interacting and exchanging views on the impact of the budget.

At the end, secretariat proposed Mr. Harish Agarwal, Vice President, IEEMA to propose a committee for overseeing various activities towards organization of the next edition of E3, like site selection and promotional activities. Mr. Agarwal said that it would be done in due course of time.

The next meeting date was fixed on 21st Apr'17 and it was also decided that it would take place in Kolkata.

The meeting was well attended by 22 participants excluding the secretariat.



**18th – 20th Nov2016, Milan Mela Ground, Kolkata, West Bengal**

IEEMA, Eastern Region organised a three day exhibition cum conference E3 – Energize Empower East from 18th – 20th Nov'16 at Milan Mela Ground, Kolkata, West Bengal. Dept of Power and Non-Conventional Energy Resources, Govt of West Bengal was the partner to this event. The inaugural session of the programme took place on 18th Nov2016. The programme was started with traditional lamp-lighting ceremony and the inaugural session was graced by Mr. Sobhandeb Chattopadhyay, Hon'ble Minister, Dept of Power & NES, Govt of West Bengal, Mr. Rajesh Pandey, Chairman & Managing Director, WBSEDCL, Mr. Vishal Kapoor, Director – Distribution, Ministry of Power, Govt of India, Mr. Abdul Matlub Ahmad, President, FBCCI, Bangladesh and Mr. Bharat Bhushan, Executive Director, Eastern Region, Power Grid Corporation of India.



*Inaugural of E3 Exhibition by Mr. Sobhandeb Chattopadhyay, Hon'ble Minister, Dept of Power & NES, Govt of West Bengal*



*Lamp lighting Ceremony at E3 Inaugural*

Ms. Nishi Saxena from Siemens started the session as MC and requested the present dignitaries on the dais to do customary lamp lighting ceremony and began the session.



*Mr. Sobhandeb Chattopadhyay, Hon'ble Minister – Dept of Power & NES at E3 Exhibition*

- The session started with the opening remarks from Mr. R K Shah, Chairman, Eastern Region & E3, IEEMA, Mr. Shah appraised the audiences that the eastern region of IEEMA has been very pro-active in creating a vibrant platform for the power sector in East and North East part of India. The concept of E3 has been created keeping in mind the abundant potential of power sector in the eastern and north eastern region and the potential that ASEAN region has to offer. He also thanked Mr. Ahmad for extending his generous help for having Bangladesh on board for making E3 a successful



programme. He also mentioned that IEEMA would like to partne with Govt of West Bengal in further exploration of skill development sector and would like to project West Bengal as a regional hub for skill development for eastern and north eastern region .



Mr. R K Shah, Chairman – ERC, IEEMA & OCC – E3 at E3 Inaugural

- Mr. Sunil Misra, Director General, IEEMA congratulated IEEMA, Eastern Region for providing exemplary leadership to the power sector. He also briefly touched upon on various activities of IEEMA. He also said that IEEMA membership represents total turnover of 25MN USD and roughly an export of 5 MN and which is growing every day.



Mr. Sunil Misra, Director General at E3 Inaugural

- He congratulated eastern region leadership for organising such an event for the first time in eastern region. He further said ERC created deep engagement with North-East and North eastern states and successfully hosted business show “Konnnect North-East” in 2015.

- The Hon’ble Minister of Power & Non-conventional energy resources and Chief Guest Mr. Sobhandeb Chattopadhyay, said that he is quite happy to see such large conglomeration of electrical equipment manufacturers under one roof. He also mentioned that Govt of West Bengal is extremely happy to partner this initiative of IEEMA. He said that the power situation has grown rapidly in West Bengal and it is also exporting the surplus power to neighbouring country like Bangladesh. He also expressed that they are quite confident that be the need arise they can export power to other neighboring countries like Nepal and Bhutan as well



Mr. Sobhandeb Chattopadhyay, Hon’ble Minister, Dept of Power & NES at E3



E3 Knowledge Report Release

- Mr. Harish Agarwal, Vice President, IEEMA gave the customary vote of thanks to all dignitaries present on the dais and for their insightful deliberations. He also thanked august gathering of IEEMA

members in large numbers along with other delegates and hoped that this convention in the next three days to come will be rewarding for all of them.



Mr. Harish Agarwal, VP – IEEMA at E3 inaugural

## GUJARAT

### First meeting of IEEMA Gujarat Zonal Chapter- 10th May 2016, Vadodra, Elmex Controls Pvt. Ltd.

The first meeting for the formation of Gujarat Zonal Chapter was held on May 10th in Vadodra. Mr Babu Babel, President IEEMA, Mr Sanjeev Sardana, Vice President IEEMA, Mr Vipul Ray, EC member, IEEMA, Mr Sunil Misra, Director General, Cdr. (Retd.) Parijat Sinha, Head-Operations, IEEMA and Gujarat Members were present at the meeting. President welcomed the members and introduced the concept and need for establishing zonal chapters to address local issues on expedient basis. Mr Vipul Ray introduced himself and the present members. He also mentioned about other members who were not present but have extended their support in formation of the chapter and taken up appropriate responsibility as required by the committee. The present members decided to form a Regional Chapter Committee so that the committee can take initiatives for taking the industry to the next level.

**Meeting with Ms Shahmeena Husain IAS, Director (Admin) Gujarat Urja Vikas Nigam Ltd. on 25 May 2016.** She welcomed IEEMA to Gujarat and extended support to IEEMA and its activities in Gujarat.

**Meeting with Mr H. D. Shrimali, Addl. Industries Commissioner, Government of Gujarat, on 26 May 2016.** He extended his support to all IEEMA activities in Gujarat and also appreciated ELECRAMA and its team for organizing world class trade show for the Electrical and Electronics industry. He extended invitation to the IEEMA President to meet Power Minister in Gujarat. Mr. Shrimali also invited IEEMA to visit Electronics and Quality Development Centre in Gandhinagar.

**Meeting with Dr M K Shah, Director ERDA on 23rd may 2016** and visit to Testing facility of EMI/EMC, Switchgear & Control gear Products & Short Circuit Station

### IEEMA interactive session in Vadodara

Indian Electrical and Electronics Manufacturers' Association organized an interactive session in Vadodara on June 17, 2016. The session was chaired by Mr. Babu Babel, President, IEEMA who introduced members to the need of creating zonal chapter and generating cohesiveness among industry members in Gujarat region. He emphasized on Gujarat region and its importance to IEEMA membership

**Meeting with Mr Dhananjay Dwivedi IAS, Secretary Department of Science and Technology, Government of Gujarat on 14th June 2016.** The objective of the meeting was to introduce IEEMA activities and inviting him for the Interactive session of 17th June in Vadodara.

**Meeting with Ms Shahmeena Husain IAS, Director (Admin) Gujarat Urja Vikas Nigam Ltd, on 15th June 2016** for inviting her for the Interactive session on 17th June 2016 in Vadodara

### Factory Visits:

Yash High voltage Insulators Pvt Ltd., Halol on 24th May 2016.

Vilas Transcore Limited and Jayesh Electricals Limited on 27th July 2016

### 2nd Meeting of Gujarat Chapter Vadodara – 15 July 2016, Vadodara, Yash High Voltage Insulators Pvt. Ltd.

Mr. Vipul Ray, Member Executive Council and Chairman Gujarat Chapter welcomed Members to the 2nd meeting. He introduced the concept of the zonal chapter to the members present, as some of these present were new. The need for formation of the core committee was felt with the purpose that the committee members would steer the regional interest and ensure adequate representation during meetings with senior functionaries of Government, Utilities and other forums.



Interactive session at Vadodara

### 3rd Meeting of Gujarat Chapter – 14th October 2016, EQDC, Gandhinagar

The Gujarat Chapter of the Indian Electrical & Electronics Manufacturers' Association held its bimonthly meeting at the Electronics & Quality Development Centre in Gandhinagar. Gujarat Chairman and Member Executive Council, Mr. Vipul Ray, welcomed Members. Presentation was made by Mr H D Shrimali, Additional Industries Commissioner Gujarat State.

### Workshop on "Best Earthing Practices for Electrical and Sensitive Electronic

### Equipment" – 19th December 2016, Vadodara.

On December 19, 2016 IEEMA conducted a one day workshop on "Best Earthing Practices for Electrical and Sensitive Electronic Equipment" hosted by Jyoti Ltd at their corporate office; in Vadodara. Mr Vipul Ray, Executive council member, Chairman Gujarat Chapter, IEEMA and Managing Director, Elmex Controls Private Limited, welcomed the Faculty, participants and appreciated Jyoti Ltd. for hosting IEEMA workshop in Vadodara and supporting IEEMA activities since its inception. Cdr Yogesh D Chaudhari (Retd), Workshop Faculty, mentioned the session would touch upon fundamentals and various aspects relating to a reliable earthing installation and in accordance with extant Indian regulations.

## Chandigarh, Haryana, Himachal Pradesh & Punjab

### Formation of CHANDIGARH CHAPTER (Chandigarh, Punjab, Haryana and Himachal Pradesh) Monday 9TH May 2016 at 1030 Hrs. – 1230 Hrs. Chitkara University, Chandigarh

On Monday 9th May 2016, Chandigarh chapter of IEEMA was formed. Mr. Babu Babel, President IEEMA, welcomed members and non members to the meeting. The objectives for establishing Zonal Chapters in different States of India, are:

- To address local issues on expedient basis
- Reach out to 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 (direct and indirect).

The present members decided to form a Regional Chapter Committee so that the committee can take initiatives for taking the industry to the next level.

### **Workshop on "Awareness on ISO 17025: General competency requirements for testing/calibration laboratories"**

Chandigarh Chapter of IEEMA arranged a workshop on 12th November 2016 on the topic "Awareness on ISO 17025: General Competency requirements for testing/calibration laboratories". The workshop was inaugurated by Mr Hartek Singh, CMD Hartek Power Pvt Ltd. There were around 26 participants from different organizations including utilities. The objective of the workshop was to understand the need for validation of test results, interpret ISO/IEC 17025: 2005 requirements, improve confidence in test results, increases confidence in personnel performing these testing / calibration in accordance with International Standards, to enable participants to develop system documentation as per standard and implement the same effectively. The participants were CMDs, Quality control engineers, lab In charges, Technical heads, SEs from utilities etc. The faculty Mr Pankaj Chawla from ERDA gave training to the participants.

### **Visit to Chitkara University on 14th December 2016**

Mr. Sunil Misra, Director General - IEEMA visited Chitkara University under Academia Institutional Membership Program. Director General had a discussion with the Dean and Pro Vice Chancellor regarding the tie up for the research and further activities with the academia.

The Pro VC, Mrs Archana Mantri, highlighted

the innovation centre named CURIN, their Incubation Centre and Research Centre which is being managed by the senior and experienced team of Chitkara University, while Mr Mohit Chitkara, Vice Chancellor, Chitkara University shared the vision and mission of Chitkara University



*Visit to Chitkara University*

### **Meeting with Mr. Anurag Rastogi, Principal Secretary, Power & Irrigation, Haryana Government on 14th December 2016**

Mr. Sunil Misra, Director General, IEEMA met Mr. Anurag Rastogi, Principal Secretary, Power, Haryana Government to discuss and share the opportunities available for Haryana State for promoting investments in INTELLECT2017. Further discussions were held on members connect with the Haryana Power department, the threats, opportunities and way forward so that the members doing business with the Haryana utilities can look forward for working towards the benefit of the state.

### **Presentation to members of Mohali Industry Association**

Chandigarh Chapter gave a presentation to the members of Mohali Industries Association on the activities and events of IEEMA on 21st October 2016, which was attended by around 50 members of MIA. The activity was basically to create the awareness among the other

associations to increase the membership as well as to look forward for alliances for different activities.

#### **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 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 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 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 Himachal Pradesh Government in almost all the departments

#### **Interaction with members:**

Regular interactions with IEEMA Members were made for understanding their needs updating them about various activities and

development work performed by IEEMA in different sectors. 5 Membership meets were done for the same.

#### **Interaction with Non members:**

Regular interactions with Non Members were made for understanding their needs updating them about various activities. The following non members were converted as members:

1. Core Metal Krafts
2. Jay Bee Industries – HP,
3. Eco Power
4. Durable Conductors & Cables
5. Ardison Associates
6. Indica Engineers
7. L S Cable India Pvt. Ltd

#### **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 brand image of IEEMA and also to understand their strategies.

#### **Factory Visits :**

Following factory visits to different Electrical Manufacturing segments were done under IEEMA initiative

Hartek Power  
Avon Meters  
N L Engineers  
Amson Transformers  
Jay Bee Industries, Panchkula  
Jay Bee Industries, Nalagarh  
Ardisons Associates

#### **Initiative for Academia Member**

Chitkara University students went for factory visit to different members so that the students can see the practical working of the Electrical Industry Manufacturing Units.

## JAMMU & KASHMIR

### **Industry Research and New Data Collection**

Capitalized on the market research and collected/updated new contact details of concerned utility officials, members and non-members in industries and power sector 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 updated important contact details of Managing Directors and CEOs of the concerned electrical equipment manufacturers in J&K. Ensured wide publicity for IEEMA through local newspapers. Updated important contact details of concerned higher ups in utility and government concerned. Most importantly updated contact details of power bureaucrats in the state through continuous follow up with the officials in the Civil Secretariat in winter capital Jammu as well as in summer capital Srinagar.

### **Meetings with Members & Non-Members**

Held meetings and conducted several factory visits at Alba Power, existing member of IEEMA from Srinagar and discussed about various activities of IEEMA.

Held meeting with North Sun Enterprises, newly-created member from Srinagar and discussed about various activities of IEEMA and PVC Services.

Visited Civil Secretariat in Srinagar and discussed with senior officials in power and industries about various seminars and conferences being organized by IEEMA from time to time and apprised them about the role of IEEMA for the development of power and industrial sector in the country.

Discussed with Naseer Electrical Industries, newly-created member from Baramulla and apprised about functioning of IEEMA

Secretariat at various forums, conferences and seminars being organized by IEEMA from time to time.

### **Meetings with Non-Members & Technical Institute Heads**

Held meetings with non-members in Jammu and Kashmir State and apprised them about functioning of IEEMA and benefits of IEEMA membership.

Visited Dean Electrical Engineering, University of Kashmir. Held meetings with Dean Electrical Engineering and discussed with him about functioning of IEEMA benefits of association with IEEMA, different training programs, seminars and conferences being organized by IEEMA from time to time. Discussed promoting IEEMA Journal among the students and faculty in the University.

Visited Kashmir Government Polytechnic College in Srinagar. Held a discussion with Training and Placement Officer and apprised him about functioning of IEEMA and benefits of association with IEEMA. Also discussed with him promoting IEEMA Journal among students and faculty in the college.

Visited Head & Dean, Electronics & Computer Sciences, Government Polytechnic College for Women, Srinagar. Discussed with her activities of IEEMA and the benefits of association with IEEMA in capitalizing on training programs, seminars and conferences organized from time to time. Discussed promoting IEEMA Journal among students and faculty in the college.

Visited National Institute of Technology (NIT) in Srinagar and discussed with Dean Electrical Engineering about various training programs, seminars and conferences being organized by IEEMA from time to time. Discussed with him about benefits of IEEMA membership. Also apprised him on promoting the IEEMA Journal among students and faculty in the Institute.



## **Government Interaction and other Interaction**

Met Chief Engineer, Procurement and Material Management Wing, JK PDD, Government of J&K. Discussed with him the activities of IEEMA and briefed him about the role of IEEMA in the development of power sector in J&K. Discussed with him the role of IEEMA in the implementation of Mission Plan 2012-2022 Smart Electricity 24x7 across India and requested him to play a key role in the development of the power sector in J&K through actively participating in all developmental activities of IEEMA and to capitalize on the efficient strategies of IEEMA so as to get technical know-how for the overall benefit and growth of power sector in the State. He vouched for his possible support to IEEMA in the state of Jammu & Kashmir.

Met Chief Engineer, Generation wing, JK PDD, Government of J&K. discussed with him the role of IEEMA Secretariat in the implementation of Mission Plan 2012-2022 Smart Electricity 24x7 across India and requested him to proactively participate in all activities of IEEMA for the development of power sector and domestic electrical equipment industries in Jammu & Kashmir. Received an overwhelming response and assurance of all possible support in all future developmental activities of IEEMA in Jammu & Kashmir.

Met Chief Engineer, MN&RE, JK PDD, Government of J&K and discussed with her the role of IEEMA in the implementation of Mission Plan 2012-2022 Smart Electricity 24x7 across India and requested her to proactively participate in all activities of IEEMA for the development of power sector and domestic electrical equipment industries in Jammu & Kashmir. Received an overwhelming response and assurance of all possible support in all future developmental activities of IEEMA in Jammu & Kashmir.

Meeting with Er. Sheikh Gul Ayaz, Development Commissioner Power, Government of

Jammu & Kashmir. Interacted with him and discussed the noble cause of IEEMA for the efficient consumption of electricity across J&K. Discussed with him the role of IEEMA Secretariat in the implementation of Mission Plan 2012-2022 Smart Electricity 24x7 across India and requested him to proactively participate in all developmental activities of IEEMA for the development of power sector and domestic electrical equipment industries in Jammu & Kashmir. Received an overwhelming response and assurance of all possible support in all future developmental activities of IEEMA in Jammu & Kashmir. Also discussed with him about Trafotech Workshop and Metering India Seminar organized by IEEMA.

Meeting with Mr. Dheeraj Gupta, Principal Secretary Power, J&K, Government of Jammu & Kashmir. discussed with him the role of IEEMA Secretariat in the implementation of Mission Plan 2012-2022 Smart Electricity 24x7 across India and requested him to proactively participate in all developmental activities of IEEMA for the development of power sector and domestic electrical equipment industries in Jammu & Kashmir. Received an overwhelming response and assurance of all possible support in all future developmental activities of IEEMA in Jammu & Kashmir. Also discussed with him about Trafotech workshop and Metering India Seminar.

Meeting with Director Technical Education- J&K- Discussed with him about benefits of an Institutional Membership with IEEMA for all technical colleges Institutes in the State of Jammu & Kashmir. Also discussed with him about promoting IEEMA Journal in all technical colleges in the State.

Meeting with Joint Director Polytechnic, J&K. Discussed with him about functioning of IEEMA and the role of IEEMA in organizing training programs, seminars and conferences for the betterment of power sector and electrical industries in the country. Discussed

with him promoting IEEMA journal among the students and faculty in all polytechnic colleges in the State of Jammu & Kashmir.

Meeting with Managing Director JKSPDCL, J&K. Discussed with him about functioning of IEEMA Secretariat and the role of its Secretariat in the development of power sector and electrical industries in Jammu & Kashmir. Also discussed with him about different training programs, seminars and conferences being conducted by IEEMA secretariat from time to time for the overall benefit of power scenario in the country. He vouched for his continued support to IEEMA Secretariat in the State of Jammu & Kashmir.

Meeting with Chairman, J&K State Electricity Regulatory Commission. Discussed with him about functioning of IEEMA its in the development of power sector and electrical industries in Jammu & Kashmir. Also discussed with him about different training programs, seminars and conferences being conducted by IEEMA He vouched for his possible and continued support to IEEMA in the State of Jammu & Kashmir.

Meeting with CEO JK Energy Development Agency. Discussed with him about functioning of IEEMA and its role in the development of power sector and electrical industries in Jammu & Kashmir. Also discussed with him about different training programs, seminars and conferences being conducted by IEEMA from time to time He vouched for his possible and continued support to IEEMA Secretariat in the State of Jammu & Kashmir.

#### **New Member Enrolment and Delegate Mobilization**

- Enrolled new member 'Naseer Electrical Industries' from Baramulla for IEEMA. The said firm is into manufacturing of power distribution transformers.
- Mobilized two engineer delegates from JK PDD for TrafoTech Workshop organized by IEEMA.

## **NORTH EASTERN STATES**

### **Government Interaction:**

Visited and met Arunachal Pradesh Deputy Chief Minister Mr Chowna Mein and apprised him about IEEMA in details and also invited him for E3.

Met Arunachal Pradesh Power Commissioner Mr Ashish Kundra and briefed him about IEEMA and various initiatives of IEEMA also had a fruitful discussion with him regarding Arunachal Pradesh Power scenerio & positive and negative aspects.

Met Newly appointed Power Minister of Meghalaya Mr S.Dhar and apprised him about IEEMA in details, had a very fruitful discussion with him, also invited him for E3

Meeting with Meghalaya Power Commissioner Mr E.P Kharbhih and apprised him about IEEMA as he was newly appointed.

Visited & invited Principal Secretary Energy of Meghalaya Mr P.K Srivastava for E3 event.

Met Mr Palav Lochan Das Newly appointed Power Minister of Assam and apprised him about IEEMA in details

Met Industry Minister Mr Chandra Mohan Patowary and apprised him about IEEMA, and held discussion about industry investment opportunity.

Met Additional Chief Secretary Power of Assam Mr Rajeev Bora and apprised him about IEEMA & also briefed him about various initiative programs of our Organization.

Visited and met approximately 10 Architect of PWD Department and apprised them about IEEMA and how it is associated with different Government Bodies & the work done by IEEMA.

Met Secretary Power(Assam) Mrs Z.Rahman Ahmed & apprised about IEEMA & its various activities

### **Utility Interaction:**

Met Director Distribution Mr T-Passah, Director Generation Mr E.W Nongrum, Director Transmission Mr C.Kharkarang of Meghalaya Utility and invited them for E3.

Met Chief Engineer Distribution Meghalaya Mr War and discussed with him the power distribution scenario of Meghalaya and what are the steps taken to improve the present distribution system.

Also met CMD of Meghalaya Utility Mr P.S Thangkhiew and apprised him about IEEMA & its various activities and also invited him for E3.

Invited MD Mr Goswami for E3 & he came for the event which was held at Kolkata & few other senior delegates of Assam utility also accompanied him at the event

Met Newly appointed MD of APDCL Mr Puru Gupta, MD of AEGCL Mr Satyendra Nath Kalita and apprised them about IEEMA, various world class conferences that are organized by IEEMA & about ELECRAMA.

Met APGCL MD Mr Kalyani Baruah & introduced him about our association, various divisions of IEEMA & its activities

Met Nodal Officer RAPDRP of Assam State Utility and apprised about IEEMA to those who are not aware of the association.

Met Arunachal Pradesh Power Department Chief Engineer Mr Anong Perme and Chief Engineer Mr Ogum Mayong & discussed with them about various power related issues and training programmes of IEEMA.

Under IEEMA initiative training programs were conducted at Guwahati for utility Engineers of Substation.

PVC Online Web Training was organized for State Utility specially who deal with Tender Procurement.

Interacted with newly appointed CGM-HQ Mr

Rabin Kalita & CGM PP&D Mr Alarka Das, CGM (RE) Mr Rupam Baruah and discussed with them various IEEMA initiative and programs.

Met CGM(D)UAR Mr Dharani Kanta Das, CGM(D)CAR Mr Hemanta Madhab Sharma, CGM(D)LAR Mr Lankeswar Sharma and updated them about different programs of IEEMA and involvement of IEEMA in Ministry of Power, Ministry of Commerce, DHI, CEA & other centralize body.

Met CGM(Commercial) Mr T.N. DEV Choudhury and apprised him in details about IEEMA, also briefed him about ELECRAMA and PVC online calculator.

Met Director (PMU) Mr Pankaj Kishore Bhuyan apprised him about different programs of IEEMA & also explained him about various technical conferences organized by IEEMA & its benefits.

Met CGM (T&T) & CGM (SLDC) Mr Manab Jyoti Saikia to update them about various programs of IEEMA

Regular interactions with GM (P&E) Narengi Mr Santi Mazumdar, DGM T&T Mr Madhab Sharma, DGM LDC Mr Prabal Bora, DGM-1 Mr Bikramaditya Das, DGM-2 Mr Amitab Choudhury, DGM MRT Mr Chandan Sharma, DGM P&E Mr Khanindra Narayan Adhikary. Visited Railway Office in Guwahati and interacted few officials of Electrical wing and briefed about IEEMA also requested them to take initiatives in various IEEMA programs also have discussed the same with the CPRO Mr Pranav Jyoti Sharma.

### **Member Interaction:**

Regular interaction were done with M/S Prag Electrical and NTL Steel & try to understand their needs.

### **Non-Member Interaction:**

Visited various non members from different segment of Electrical Industry M/S A.K Engineering, M/S Maklik, M/S Kamakhya Transformer, M/S N.K Power, M/S Winpower,



M/S Power Maker, M/S Koel & met the proprietor or senior officials & apprised them about IEEMA, its various activities & functions with Government interaction.

### **Interaction with Educational Institutes:**

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

### **Factory Visits:**

Factory visits to different Electrical Manufacturing segments were done under IEEMA initiative and during factory visit interacted mostly with the proprietor or the senior most officials in the organization to brief them about IEEMA in details and uplifting the brand IEEMA to new heights in the region.

## **UTTAR PRADESH & UTTARAKHAND**

### **Members Interaction with Utilities**

Subsequent to interactive session 'Make Uday Happen', two meetings were organised between the members of IEEMA and the senior Govt. officials of UPPCL. These meetings were chaired by MD UPPCL, Mr AP Mishra. From IEEMA's side the meetings were attended by divisional members of Transformer metering & cable and conductor divisions including Mr Vishnu Agarwal-Ex-President, IEEMA, Mr Vinamra Agarwal, Mr Chetan Desai & DG Mr Sunil Misra. This meetings was held to carry forward the scope of interaction between UPPCL & IEEMA members.

Another meeting of members of metering division was held with the senior officials of UPPCL at Shakti Bhawan, Lucknow. This meeting was focussed on working out the

modalities for further co-operation between the members of the metering division & UPPCL officials.

Introductory meeting of DG, Mr. Sunil Misra was held with Energy Minister, Sri Shrikant Sharma and new Chairman UPPCL cum Principal Secretary Energy, Mr Alok Kumar (IAS).

### **Interaction with Govt Departments. UPERC**

Regular meetings with Chairman UPERC, Mr DD Verma were held. He was regularly apprised of various activities of IEEMA. He participated in few IEEMA events.

### **UPPCL**

Meetings with Chairman UPPCL cum Principal Secretary Energy, Mr Sanjay Agarwal (IAS) were held regularly & he was continuously updated about the events and conferences of IEEMA.

There were regular interactions with Mr AP Misra MD UPPCL, Mr Vishal Chauhan (IAS) MD Transmission Corporation and Utpadan Nigam, MD's of various Discomms. Including KESCO, Directors, Chief Engineers and other senior officials. Increased interest is getting generated for various events & conferences organised by IEEMA.

IEEMA journal now is a very widely and regularly read magazine. There has been feedback from officials who have benefitted by content provided through this magazine.

### **NEDA**

There have been regular interaction with MD's/Directors of NEDA. They have been briefed regularly about our activities. With NEDA coming under the Secretary Energy there is an increased interest shown by them.

### **Administration**

There were a few interactions with the Chief Secretary. He was informed about all major activities of IEEMA.

## Pollution Board

Visits to Pollution Board Chief Environmental Officer Mr R Upadhaya.

## Railways

Interacted on a monthly basis with Director General RDSO, Executive Directors and other Directors. IEEMA events, conferences and IEEMA journal generates a lot of interests in them. Participation from RDSO in the events is very regular. There has been interaction of DG with various ED's.

## Non- Members

Interaction with select few non- members is being done regularly. ELECRAMA is generating increased interest among the non-members.

## New Members

Two new members –Safety Controls and Sabo Earthings are in the process of being added.

Regular interactions have been held with Utilities of UP, Uttarakhand, members & non-members for their participation in various conferences and events organised by IEEMA.

# RAJASTHAN

## Seminar on AT&C Losses on 31st January in Jaipur

IEEMA organised a seminar on Relationship of AT&C Losses and Transformer Failure on 31st January 2017 at Hotel Hilton, Jaipur, Rajasthan. Mr. Sunil Misra, Director General, IEEMA, Mr. Pawan Jain, Chairman IEEMA Distribution Transformer Division; Guest of Honour, Mr. R.G.Gupta, Advisor (Energy), Govt. of Rajasthan; Chief Guest, Mr. Pushpendra Singh, Hon'ble Minister of State (Energy), Govt. of Rajasthan, Guest of Honour, Mr. Shreemat Pandey, Chairman Discoms; Mr. Anil Kumar Bohra, Managing Director, Jaipur Discoms, Ms. Arti Dogra, Managing Director, Jodhpur Discoms participated in the Seminar.

The Seminar highlighted the difficult



*Mr. Pushpendra Singh, Hon'ble Minister of State (Energy), Govt. of Rajasthan at Seminar on AT&C Losses*

situation about the AT&C losses which are creating major difficulties in the working of the Discoms. The seminar also emphasized on the aspect that areas where ATC losses have reduced, the Transformer failure rate has also come down drastically. But where there is greater Power pilferage and mischief, all honest consumers are put to difficulty because of transformer failure, disruption in system, cutbacks in electricity as per rules etc., Need on improving the Technical Specification was discussed with the Officials; Importance of Good Earthing – understanding Failures and Losses in Single Wire Earth Return Distribution System was discussed in detail with the utility officials by Cdr. Yogesh D Chaudhari.

The no. of delegates participated in the Workshop was approximately 125 Nos out of more than 100 nos. were from Rajasthan Discoms.

## Workshop on "Negotiation Skills" on 1st July 2016 in Jaipur

IEEMA conducted a one day Workshop on "Negotiation skills" for its members on 1st July 2016 at Hotel Fortune metropolitan, Jaipur. The workshop was conducted by Faculty Cdr. Rajesh Sinha. Rajesh is a retired navy officer with extensive exposure intra-governmental and inter-organization negotiations on policy matters as well as development of documents for policy negotiations. Delegates from Genus Power, Elektrolites Power, Modern



Insulators, RMC Switchgear, Cargill India. Man Structural, Rajasthan Metals Smelting Co. Dynamic Cables, Mr. Krsna Sudarshan Urja and Uttam Bharat Electricals attended the workshop.

### **Workshop on "Best Earthing Practices for Electrical Equipments and Installation"**

IEEMA conducted a one day Workshop on "Best Earthing Practices for Electrical Equipment and Installations" for its members on 7th November 2016 at Hotel Fortune metropolitan, Jaipur. The workshop was conducted by Faculty Cdr. Yogesh Chaudhari. Yogesh is a retired naval officer with extensive exposure in Indian Navy's Technical branch, especially submarines and Program Management. He has been a member of L&T (Electrical and Automation IC), having served as DGM (Systems Engineering) and Head (Sales and Marketing) of their Marine Business Unit. Total 25 Delegates from ABB India, Kotsons, Dynamic cables, Mr. Krsna sudarshan urja, Uttam Bharat Electricals, Fatehpuria Transformers, Marsons Energy, Ujaas Energy, Mangal electricals and Vijai Electricals attended the workshop.

### **Interaction with Members:**

Interaction on regular basis with members in the region via personal meeting or over phone. Have discussed about current and future activities in Rajasthan and all over India.

### **Interaction with Non Members**

Interaction on regular basis with few of the non- members related to electrical industry- manufacturer of different electrical equipment, EPC Contractors to update them about the various activities and development work of IEEMA from time to time. Also informed them about various initiatives of IEEMA with MOP, DHI, and Ministry of commerce and apprised them about the latest policies taken by Government of India. These non-members found the information to be very informative.



*Seminar on Relationship of AT&C Losses and Transformer Failure at Jaipur*

### **Interaction with Other Associations**

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

### **Interaction with Media**

Interaction with editors of Print media like Times of India, Hindustan times, Indian Express, Rajasthan Patrika, Dainik Bhaskar Etc, and Digital Media like Zee news, ETV, in Rajasthan region and discussed about IEEMA and its activities.

### **Government Interaction**

Meeting with Mr. Pushpendra Singh, Minister of Energy, Rajasthan on 18th January 2017 inviting him as chief guest for the Seminar on AT&C losses in Jaipur.

Meeting with Pr. Secretary Energy, CMD Discoms and RVPN Sh. Sanjay Malhotra 19th January 2017 - invitation for participation as Guest of Honor in Seminar.

Meeting with CMD Rajasthan Discoms-Mr. Shreemat Pandey on 19th January 2017 - Invitation for participation as Guest of Honour in Seminar.

Meeting with Energy Advisor to Govt of Rajasthan on 16th and 19th January for discussing about upcoming seminar.



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.

Interactions with MD-JVVNL-Mr. A K Bohra –

- On 19th January –Invitation for seminar as speaker.
- On 6th March 2017, meeting with IEEMA Transformer division members for their representations and grievances.
- On 15th March, meeting with IEEMA Meter division members for their representation and grievances.
- On 16th March – invitation for participation in Metering India 2017 as session speaker.
- On 30th March – taking confirmation from MD for Metering India.

Networking with Govt. Utilities viz DISCOMS, TRANSCOS, GENCOS, RERC, RRECL, REC REG. OFFICE, Pollution control board and other govt utilities and apprised them about IEEMA and its activities.

### **New Membership:**

3 new ordinary members were added from the region:

- Rajasthan Powergen Transformers Pvt. Ltd, Jalore.
- Vikas Enterprises, Jaipur.
- Ritika Enterprises, Jaipur.

### **Factory Visits:**

- Secure meters ltd, Udaipur.
- Genus Power infrastructures ltd., Jaipur
- Elektrolites power pvt ltd., Jaipur.
- Dynamic cables pvt ltd., Jaipur
- Mr. Krsna sudarshan urja Pvt ltd., Jaipur
- Uttam Bharat Electricals Pvt Ltd., Jaipur.

## **ODISHA**

### **Meeting with different officials with point of discussions.**

6th April /26th September 2016 : Visit TO Chief Secretary office to meet OSD to CS to discussed about IEEMA programmes, seminars, events and invite him for E3

26th Sep 2016: Meeting with Principal Secretary Mr. Rajesh Kumar Verma, IAS regarding AGM of IEEMA and E3 programme.

9thMay/03rd August/29th Sept.2016: Meeting with H. Sharma IAS, CMD Gridco/ Optcl regarding "Trafotech" and invite him to E3 and AGM of IEEMA.

3rd August 2016: Meeting with Mr. P. K. Pattanaik, AGM, Mr. A K Samantaray, DGM, OPTCL and regarding paper submission for Trafotech.

24th August 2016: Visit to NESCO office to meet Mr B.K.Sahoo, Authorized Officer , Mr. Sarat chandra Mahallia, DGM

October 2016: Meeting with Principal secretary to invite him for E3, and participate in panel discussion for INTELECT, and nominate delegates for IEEMA seminars, conference etc.

October 2016: Visit to CESU office to meet CEO Mr. P. K. Dash. Invited him for E3, and delegates for IEEMA seminars like Trafotech, Metering india, Swicon etc.

1st Oct 2016: Meeting with Head of Southco, COO Mr. P Arun Kumar and invited him for E3 and delegates for IEEMA program.

4th Oct 2016: Meeting with Mr. G C Dhal , GM and Mr. Abhya Das Chief Manager EI, PGCIL , Odisha zone and discussed about IEEMA activities.

18th Oct 2016: Meeting with Mr Gangadhar

Patel, Authorized Officer and Mr. S.K. Darji, GM Metering for E3 program.

19th Oct 2016: Visit to NESCO Office meeting with Mr. Gobinda Chandra Sahoo, Mr. Braj sundar Parida Dgm El.for E3.

Nov 2016: Visit to OERC office to meet Member chairman Mr. A.K.Das and discussed about the E3,

22nd/30th March 2017: Meeting with chairman Mr. U.N.Behera ,IAS, Mr. K L Panda, Secretary, Mr. A.K Das, Member, OERC to discuss Metering India and IEEMA activities.

Meeting with Executive Director, NTPC to discuss about activities of IEEMA.

Visit to OPTCL office to meet Head PMU, to get information about IPDS, DDUGJY, and ODSSP project.

17/18 /23 Dec 2016: Meeting with Head PMU OPTCL, Special Secretary, Add. Secretary - Energy, to discuss about activities of IEEMA

28th March 2017: Meeting with Secretary Mr. Ranjan kumar Nayak, ELBO, Mr. Priyaranjan Behera, Dy. Executive Engineer, ELBO to brief about IEEMA.

9th March 2017: Met EIC cum Chief Electrical Inspector and Zonal Inspectors of Electricals to brief about the activities of IEEMA.

15th March 2017: Meeting with Mr Nihar Ranjan Pradhan, PS to CMD GRIDCO /OPTCL and Mr A.k Panda, GM HR, Mr. Rajendra Senapati, Director HRD GRIDCO/OPTCL, for Metering India

16th March 2017: Meeting with Mr. S.K. Mishra Sr GM , HR CESU for Metering India.

17th /18th March 2017: Meeting with J P Das, Head PMU, Mr. Amarendra Mohanty GM ,ODSSP, for data of Transformer in IPDS, DDGJY ,ODSSP projects.

21st March 2017: Met Mr. A k Das, Member

and Mr. K I Panda Secretary OERC, regarding Metering India.

22nd March 2017: Met R R Panda, AO SOUTHCO and CGM construction OPTCL regarding Metering India.

### **Meeting with Ministers**

26th Sept 2016: Meeting with Mr. Pranab Prakash Das, Hon'ble Minister for Energy GoO, Mr. Debi Prasad Mishra, Hon'ble Minister for Industry GoO, Mr. Jogendra Behera Hon'ble Minister for MSME GoO to invite them to IEEMA AGM and E3 program.

1st Dec 2016: Met Union Finance Minister Mr.Arun Jaitly, GoI during Make In Odisha Conclave

2nd Dec 2016: Met and discussed the presence of IEEMA in Odisha with Hon'ble Union Minister Of States for Power, Coal, New and Renewable Energy and Mines Mr. Piyush Goel, GoI, at Make in Odisha conclave.

10th Jan 2017: Meeting with PRO to Chief Minister regarding IEEMA activities.

### **Meetings with other officials in the state**

Discussed about the brand name of IEEMA and betterment for the organization.

4th August 2016: Visit to East Coast Railways to meet Mr. P.K Behera, Dy. Chief Engineer Electrical and other departments like Material management introduced about the IEEMA and clarified about the PVC, and informed about activities of IEEMA

12th August/ 16th Sept 2016: Met Mr. B K Das, Joint Secretary IPICOL and discussed about IEEMA journal.

26th Sept 2016: Met Special secretary Commissioner Commerce and Transport department Mr. Manoj kumar Mishra, IRTS (Rail coordination) discussed about the activities of IEEMA.

Meeting with Director of MSME and discussed

about the training program through IEEMA

Meeting with Director NSIC, MoNRE to discussed about the IEEMA program.

Meeting with Member State Pollution Control Board to discussed about the industry Association.

Meeting with Director Factory Boiler & discussed about IEEMA

Regular interaction with Members and Non Members in Odisha region.

#### **Factory visits:**

20th May 2016-RTS, Kolkata.

11th July 2016-Alfa Transformer.

10th Aug 2016-GPIL.

28th Sept.2016-BLU engineers.

25th Oct 2016 Hindustan Urban Infrastructure Ltd.,

17th May 2017 Essar Power Ltd.

Regular interaction with media in Odisha region.

#### **Interaction with Technical Institute for Institutional Memberships**

4th Nov 2016: Meeting with Mr. Mukti k. Mishra, founder of Centurion University of Technology and Management.

29th November 2016: Conducted a seminar at Centurion University of Technology and Management sponsored by Schneider Electric Ltd regarding solar power which was attended by 45 students.

17th August 2016: Meeting with Director Mr. S Mishra of ABIT to discuss about IEEMA.

3rd September 2016: Conducted a Seminar at ABIT with final year students of Electrical and Electronics Stream on "Solar Power Impacts on Energy Crises". Total number of participants for the seminar were 55.

9th August 2016: Meeting with Mr. Manash

Ranjan Mallick, Director ITER to discuss about IEEMA.

#### **Interaction with other Association**

Visit to Associations i.e. CII, FICC, ICC, Utkal Chamber of Commerce & Industry, British Council etc.

## **TELANGANA & ANDHRA PRADESH**

On 04th April, visited TS TRANSCO & GENCO to meet Mr. Prabhakar Rao, CMD to invite him as a speaker of the programme for Hyderabad members.

On 11th April, Met Mr. Rajagopalan, Chief Instructor, Electrical System Training Institute -South Central Railway, Secunderabad (Hyderabad). S C Railway requested IEEMA to share the design and content of 125 Years of Electricity pavilion to replicate the same in their institute.

On 15th April, met Mr. S D Ravi Varma, Chief Engineer, TSTRANSCO to discuss about aluminum price fluctuation in conductor manufacturing.

On 19th April, met Mr. P. V. Prabhakar Rao, CE, and Mr. B Ravi, Superintending Engineer, TSTRANSCO and discussed about aluminum price fluctuation in conductor manufacturing.

On 21st April, visited APTRANSCO & TSTRANSCO for promotion of SURGEPROTECH 2016.

On 25th April, met Mr. Surya Prakash, Director (Projects), Mr. Jagath Reddy, Director (Transmission) & Mr. G. Narsing Rao, Director (HR & Grid Operations) to discuss about organizing a workshop on Price Variation Clause (PVC).

Factory Visit to Transcon Industries On 29th April.



03rd May, meeting with Mr. B. Ravi, Superintending Engineer, TSTRANSCO

Organised Ieema Conductor Division Members meeting with Telangana Utilities (Mr. P. V. Prabhakar Rao, CE, Mr. B. Ravi, SE, Mr. R. Rambabu, DE and Mr. Devasahayam ADE, TS TRANSCO) on 11th May.

Main points discussed were:

- Aluminium price variation in conductor manufacturing
- SE, requested to issue IEEMA guideline on every division
- TS TRANSCO follow the CAPMA guidelines for conductors it seems but they requested to share the IEEMA guidelines for the same.
- For transformers and other materials TS TRANSCO follows IEEMA guidelines

On 14th May, visited TSSPDCL met Mr. Sridhar, DE & PA to CMD for follow up on the nominations for awareness Workshop on Electrical Transformer Quality Control Order scheduled on 30th May in Delhi.

On 20th May, visited and met Secretary office - Energy department, Telangana and handed over the letter invite from Joint Secretary, Ministry of Power for the Awareness Workshop on Electrical Quality Control Order to Commissioner & Energy Secretary of Jammu & Kashmir.

On 25th May, visited FTAPCCI met Mrs. Sujatha for their participation in IEEMA's One day Workshop on "Made In India For Global Markets" at Hyderabad

On 26th May, Factory Visit to Linkwell Telesystems Pvt. Ltd.

On 14th June, visited Andhra Chamber of Commerce & Industries (APCCI) met Mr. Srinivasa Rao, Secretary for their participation in IEEMA's One day Workshop on "Made In India For Global Markets" organized at Hyderabad on 24th June 2016 at Hotel Minerva Grand (Secunderabad)

On 16th June, Factory Visit (Linkwell Telesystems Pvt. Ltd) to know and understand the product knowledge. Linkwell Telesystems are also known as Visiontek and they are into power meter manufacturing.

On 17th June, visited Telangana Chamber of Commerce & Industries (TECCI) met Mr. Venkateshwar Rao, President for their participation in IEEMA's One day Workshop on "Made In India For Global Markets" organized at Hyderabad on 24th June 2016 at Hyderabad.

On 24th June, **IEEMA ORGANIZED ONE DAY WORKSHOP ON "MADE IN INDIA FOR GLOBAL MARKETS"** at Hyderabad. Mr. M. G. Satyendra, Consultant & Trainer - Global Certifications & Chairman - IEEMA Quality Cell was the faculty for the workshop.

On 18th July 2016, visit to TSSPDCL, Hyderabad to meet Mr. Srinath Reddy, PA to CMD, Mr. T. Srinivas, Director and Mr. Manthri Balraju, CGM and discussed about TRAFOTECH.

Meeting with Mr. T. Jagath Reddy - Director, Mr. B. Ravi - SE, Mrs. Venkatalakshmi - DE, TS TRANSCO, Mr. Radhakrishna - Director, Mr. Sachindanandam - Director, TS GENCO, Mrs. B. V. Shanthi Seshu - ED, AP TRANSCO regarding TRAFOTECH on 22nd July 2016.

Meeting with Mr. Mangu - HOD (EEE) and Dr. Vidya Sagar, Sr. Professor, Osmania University, Hyderabad on 25th July 2016, regarding TRAFOTECH.

Meeting with Mr. Jagath Reddy & Mr. Narasimha Directors, TS TRANSCO and Mr. Subramanyam, Director, AP TRANSCO on 06th October, regarding TRAFOTECH,

On 17th October, visit to southern Discom to meet Mr. Srinivas Reddy, Director TRAFOTECH.

On 24th October, interaction with Mrs. Shanti Seshu ED & Mr. Devanand, CE - AP TRANSCO regarding TRAFOTECH.

On 8th November, interaction with Mr. Venkateshwarlu, ADE/P&MM, TS TRANSCO regarding TRAFOTECH.

On 15th November, visit to AP TRANSCO to meet CMD and Mr. Subramanyam, Director regarding TRAFOTECH.

On 27th December, interaction with Prabhavathi, DE/PMM, TSNPDCL.

On 11th January, visit to South Central Railway to meet Mr. John Thomas, CEE and Mr. A S Agarwal, CECE and discussed about IEEMA and Intellect 2017.

On 16th January, visit to TSNPDCL, Warangal to meet Mr. A. Gopal Rao, CMD.

On 18th January, visit to APEPDCL, Vizag to meet Mr. M. M. Nayak (IAS), CMD. Also met Mr. B. Ramesh Prasad, Executive Director (World Bank Projects).

On 25th January, interaction with Mr. Rambabu, P&MM, TSTRANSCO.

On 10th February, visit to APERC to meet Mr. P Rama Mohan, Member and discussed about Metering India 2017.

On 10th February, visit to TSERC to meet Mr. Ismail Khan, Chairman and discussed about Metering India 2017.

On 15th February, visit to AP TRANSCO to meet Mr. P. Dinesh, JMD to discuss about IEEMA and Metering India 2017.

On 15th February, visit to TS TRANSCO to meet Mr. C. Srinivasa Rao, JMD discussed about Metering India 2017 requested to depute concern officials to the event.

Meeting with Mr. Vijayanand, CMD, APTRANSCO on 09th March, to discuss about contracts terms and conditions.

Meeting with Mr. Jagath Reddy & Mr. Narasimha, Director(S) – TSTRANSCO on 15th March, to discuss about Metering India.

On 21st March, visit to TSSPDCL to meet

Mr. Murali Krishna, CGM to discuss about Metering India.

Interaction with Mr. Srinivasa Rao, APEPDCL, CGM on 21st March, to discuss about Metering

On 27th March, visited S C Railway to meet secretary to CEE to discuss about Metering India, IEEMA and its activities, also recommended to subscribe for IEEMA journal.

On 28th March, interacted with members in Hyderabad to sign MoU of PSSC towards skill development in the industry to begin with the development of National Occupational Standards (NOS) and Qualification Packs (QPs) for the power equipment industry.

Regular interaction with Members and Non-Members in the region.

### **Factory Visit**

13th July 2016 - Gloster Cables Pvt Ltd

14th September 2016 - Deccan Enterprises Ltd.



## PRE-BUDGET Meetings

### Economic & Taxation Committee:

The Economic & Taxation Committee 2016-17 was re-constituted by the Executive Council, under the Chairmanship of Shri P Ramakrishnan, Head – Finance & Accounts, Electrical & Automation, Larsen & Toubro Limited. Senior finance / taxation officials of other member organisations were the members of this Committee. In May 2016, Shri Adarsh Jain, General Manager (Finance / Commercial), KEI Industries Ltd. Took over as Chairman of the Committee. Members also nominated Shri Yogendra Agarwal, Senior General Manager, Bharat Bijlee Ltd., as Vice-Chairman of the Committee.

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

The Committee steered the pre-budget exercise and represented the IEEMA Pre-Budget Memorandum for Budget 2017-18 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 policy issues faced by the industry, which include, laws related to Goods and Services Tax; bottlenecks in export procedures, provisions of Foreign Trade Policy, suggestions on ease of doing business; and difficulties with JICA funded projects etc.

## BRAND IMAGE OF IEEMA

### Publications, Web Presence Media Coverage, and Advertising Promotion

The IEEMA Corporate Communications, PR & Brand department has expanded the visibility and positive image of IEEMA both in India and abroad. This has been successfully executed



IEEMA gets "Diamond Grade" accreditation from Quality Council of India



particularly in the ELECRAMA year, during membership meetings and interactions with key Government bodies.

### IEEMA achieved "Diamond Grade" at "National level" through National Scheme for BMO Accreditation of Quality Council of India (QCI).

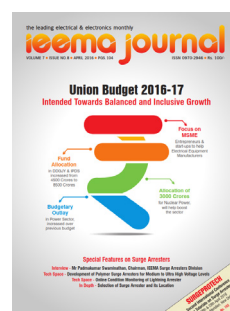
IEEMA has been achieved "Diamond Grade" at "National level" through National Scheme for BMO Accreditation of Quality Council of India (QCI). This Accreditation standard is aligned to International Best Practices and developed in collaboration with Ministry of MSME, SIDBI, & GIZ German Development Corporation. The Standard helps BMOs with a framework to plan, establish, operate, monitor and improve services. BMO grading based upon four Parameters - Governance, Operations, Services and Performance Measurement & Reviews. There were 3 levels for Grading BMOs – Silver, Gold and Diamond. This recognition showcase our Association amongst the Association leaders in the country. We can now use NABET-BMO accreditation logo for all our branding.

### IEEMA Journal

IEEMA Journal has entered into 36th year and continues to furnish its readers with informative and researched articles from experts of the power industry. The year 2016-17 saw the digitization of IEEMA Journal where we provided our readers the digital version of the magazine. In the year 2016-17 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

During the 35th anniversary of the magazine, we came out with the special edition focusing on the transmission and Distribution sector of the Country. The important highlights of the IEEMA Journal in the year 2016-17 were some important cover stories Surge arrestors, Energy Meters, Nuclear Power and

energy Efficiency. The journal also came out with a special edition for INTELECT 2017 which focused on smart and intelligent technology for the future of electricity. The IEEMA Journal team is strenuously working on further improvisation of content in the magazine making it more relevant for our members Guest articles from IIT Professors, engineers, power analysts and academicians are being called based on their expertise in the respective field.



### IEEMA Website

IEEMA website - [www.ieema.org](http://www.ieema.org) was revamped with new dimensions for the benefit of our members The website has additional features like IEEMA Live Tab which is a one-stop news page for the latest in power generation, transmission and distribution trends and news. It also has online PV Calculator, Online IEEMA publications with online payment gateway.

Moreover, the website also has additional tabs like live chat in which one of our representative dedicatedly resolves queries of our members within a span of a few seconds. Other services added on the new website include Help Desk Services, Language Option, and Online payment gateway for all services. Microsites continue to be created based on the events, for example for intellect 2017, trafotech and E3. The new website is linked with our social networking sites like facebook, LinkedIn and Twitter. The website now also has an online store for purpose of purchase by viewers

### IEEMA Weekly Updates

IEEMA Weekly Update was launched in 2016. The weekly IEEMA Update consists of all the meetings with important ministries, interface and representations made to government and also workshops, training programmes and conferences undertaken by IEEMA during the week.

### 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, two divisions namely Elevators & Escalators and Transmission Line Accessories & Hardware have devised the formats for data collection & compilation. Few more divisions have also expanding product segment coverage of compilation based on importance.

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 60 days. We are also exploring new ways of collecting data to maintain utmost anonymity in data submission which will

provide more 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.

A professional agency associated with us periodically study EXIM the trend and advice members trade remedial measures. EXIM data from DGCIS, Ministry of Commerce is shared to members periodically.

### Circulation of Prices and indices

In this year, PV clauses for HTLS Conductors was evolved and made operational after deliberations among division members A clarification was also published regarding use of Aluminium and Steel prices applicable for Transformer PV clauses for the benefit of all stakeholders

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 being published through a dedicated web site <http://publications.IEEMA.org>

### **PV Calculator**

PV Calculator tool - online PV Calculator portal ([www.pvcalculator.IEEMA.org](http://www.pvcalculator.IEEMA.org)) 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 and hand holding/ training etc.

## **ORGANISING ELECRAMA**

### **ELECRAMA-2018**

ELECRAMA is the flagship showcase of the Indian Electrical Industry ecosystem and the largest congregation of power sector ecosystem in the geography. ELECRAMA brings together the complete spectrum of solutions that powers the planet. The next edition of ELECRAMA will be held from 10th to 14th of March 2018 at India Expo Mart, Greater Noida, Delhi NCR India

ELECRAMA-2018 introduces a couple of new initiatives and conferences that reaches out to some of the key constituents of the global electricity business.

ELECRAMA 2018 will now evolve from the traditional power transmission and distribution encompass the complete electricity ecosystem.

New segments and verticals that now cover the entire spectrum of electricity will

now be covered under the purview of the event, namely: generation, transmission, distribution, power electronics, renewables, powerstorage, electromobility and automation. The focus application areas of Railway, Nuclear and Defence have been also included in the scope.

ELECRAMA also envisages a comprehensive suite of concurrent events that will be hosted to cover crucial aspects of the electricity business, like World Contractors, Consultants & Channel Partners Congress: (W4C), Global Electrical Equipment Manufacturers' Summit (GEMS), World Utility Summit with the theme of UTILITY OF UTILITIES and ETechNxt

ChangeXchange 2018 – 4th Reverse Buyer-Seller Meet is being organised together with ELECRAMA-2018. In the previous edition Changexchange 2016, had 600+ buyers from 40 countries, business worth US\$400 million over 6000 meetings in a period of 3 days.

ELECRAMA 2018 will also host Powerhouse Pavilion, Railway Pavilion, Renewable Energy Pavilion and International pavilion.

Whatever be the application or business area, if it is about electricity, then it is on display and discussion in ELECRAMA-2018 presents a wide gamut of industries and application areas that are strategic to the Electrical business of the future.

### **INTELECT 2017**

#### **INTELECT 2017 & DistribuELEC**

Creating a new episode in the future of electricity

Once again the synergetic relationship between IEEE, IEEMA and the Government of India machinery has harbingered into a path breaking dialogue for Intelligent Electricity Consumption & Technology for the benefit of key stake holders and the end customers The second edition of INTELECT 2017 DistribuELEC was a huge hit among the industry leaders



## Glimpses of INTELECT & DistribuELEC 2017



The event was supported by the Ministry of Power, National Smart Grid Mission, with Madhya Pradesh as partner state and CESC as partner utilities. The event witnessed the presence of who's who of the Indian Electrical equipment industry.

INTELECT also provided a networking platform to various players in the ecosystem to come together to exchange ideas and share their vision. The two Day International Conference on Evolving Trends in Intelligent Management of the Future Grid witnessed distinguished speakers sharing their experience, exchanging ideas and addressing the issues prevailing in the International electrical arena.

#### **Record-breaking attendance of more than 10,000 quality visitor**

- 99.5% exhibitors want to participate in INTELECT again
- 88% of exhibitors said the quality of attendees met or exceeded their expectations
- 100% would like to visit this kind of an exhibition again
- 98% of Visitors said the quality of exhibition met or exceeded their expectations
- 90% of Visitors favourably compared the quality of exhibitors over other industry events

INTELECT 2017 & DISTRIBUELEC, the three day (23rd January-25th January 2017) exhibition cum conference was held at the India Expo Center, Greater Noida. The exhibition was inaugurated by Chief Guest, Mr. Piyush Goyal, Hon'ble Minister of State (I/C) for Power, Coal, New and Renewable Energy and Mines and Guest of Honor, Shri Girish Shankar

Secretary, DHI, ministry of heavy Industries & Public enterprises, Mr. A K Verma, Joint Secretary, Ministry of Power, Mr. Desh Deepak Verma, Chairman, Uttar Pradesh Electricity Regulatory Commission, Mr. Sanjay Shukla, Managing Director, Madhya Pradesh

Power Management Company and other key dignitaries including Mr. Sanjeev Sardana, President, IEEMA, Mr. Prakash Chandrekar, Chairman, Organizing Committee, Ms. Indra Prem Menon, Vice President, IEEMA, Mr. Harish Agarwal, Vice President, IEEMA, Mr. Sunil Misra, Director General, IEEMA amidst an august industry gathering.

With over 100 exhibitors, the show brought together senior officials from Ministry of Power, State Utilities, DISCOMS, IESA, India IOT Panel and TERI under one common platform, to discuss global best practices and seek solutions to some of the most pressing challenges pressing challenges in the field of Intelligent Electricity.

#### **INTELECT 2017 & DistribuELEC International conference**

A two day conference was organized by IEEMA and IEEE on International Conference on Evolving Trends in Intelligent Management of the Future Grid. The topic of the session were

- New Energy equation & Challenges in delivering the values to the customers
- Renewable : Integration of Renewables, Evolving trends, grid stability, energy storage
- New Challenges & Solutions from Transformer Industry
- The Future Energy world : Making the world a better place to live
- Regulation, Grid Code & policies on power sector & market mechanism
- Leveraging Microgrid / Smart Grid towards Energy Efficiency
- Cyber Security - Threat, Challenges & Opportunity for T&D

The highlight of the conference was the presentation made by Mr S K Soonee, Advisor, POSOCO on Impact of New Energy mix , Grid stability and Market Mechanisms where he dwelled upon the targets to be achieved in future.

## Training & Skill Development

IEEMA training organises training programmes aimed at providing inputs to industry on technological, managerial and industry-related topics, thereby assisting them to gain a competitive edge needed for the progress of the organisation.

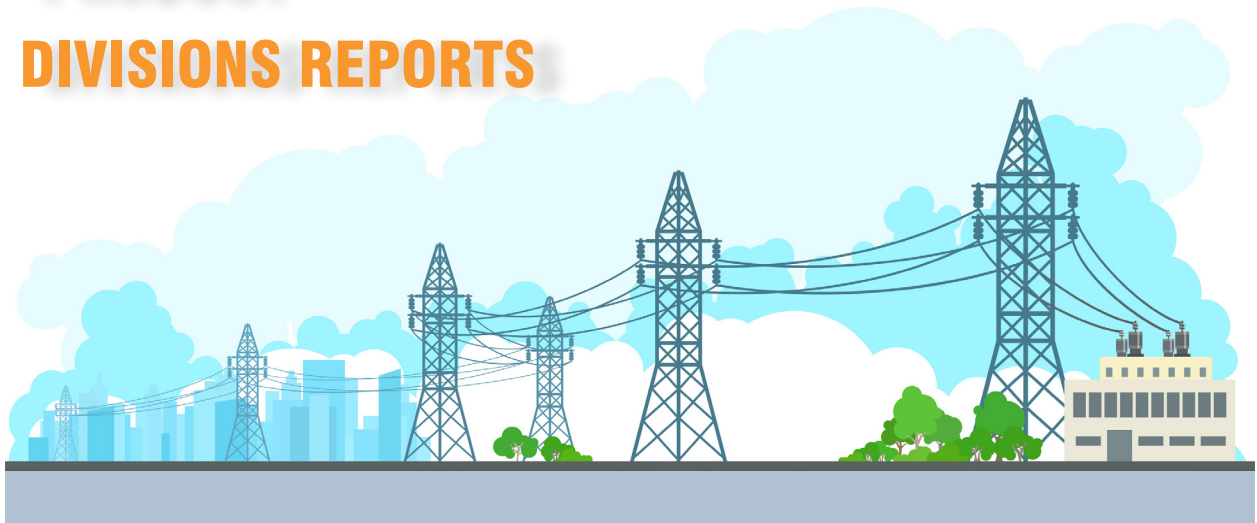
This has been a record year in number of programs, participants and revenue. Very positive response has been received from the various participants of IEEMA training programmes and seminars

Sl. No.	Name of Training Program	Location
1	Leadership Development through Business Simulations	Mumbai
2	Made In India For Global Markets	Secunderabad
3	Two Days Workshop on Succession Planning & Management	Mumbai
4	Negotiation Skills	Jaipur
5	Good Manufacturing Practices at Shop Floor	New Delhi
6	Excellence in Vendor Management & Contract Negotiations	Mumbai
7	Global Certification - Compliance requirement	Bangalore
8	Innovative Approaches in International Marketing for Electrical Products	Mumbai
9	Best Earthing Practices	Mumbai
10	Best Earthing Practices	Jaipur
11	Awareness on ISO 17025 : Testing / Calibration Labs	Chandigarh
12	Good Manufacturing Practices at Shop Floor	Mumbai
13	Best Earthing Practices	Gauhati
14	Best Earthing Practices	Bangalore
15	Best Earthing Practices	Baroda
16	GST : Gearing Up for Transition	Mumbai
17	Assembly of PV Solar System	Mumbai



# PRODUCT

## DIVISIONS REPORTS



### CABLE

- Industry Size: INR 41250 Crs
- Exports: INR 2175 Crs (estimated)
- Imports: INR 611 Crs (estimated)
- Number of Members in the Division: 110 Organisations
- Division Meetings:
  - 2nd June 2016, Mumbai
  - 23rd August 2016, Mumbai
  - 14th October 2016, Mumbai
  - 15th December 2016, New Delhi
  - 21st February 2017, New Delhi
- Number of Division meetings: 05 (Five) excluding 4 Technical Committee meetings
- Average Attendance: 17 (Seventeen) Organisations

10% mainly from domestic orders especially for up to 33 KV; mostly from solar business. Production of LV Power Cables (Up to 1.1 KV) also improved by 5% with good support from export orders. Ariel bunch cables were in good demand especially for 3.3 to 33 KV. However, demand for control cables has declined by 4%.

LD/House wiring cables demand is improving due to good offtake from realty and infrastructure projects. Demand for FS Cables, Trailing, Railway Loco cables in Elastomeric types and Instrumentation cables have also witnessed moderate to good growth.



### Summary of Division meetings:

#### State of Industry:

Overall Cable industry (excluding Telecom) has grown moderately by 4% in volume terms. MV-HV Power Cables (Above 1.1 KV) were in good demand & registered a growth of

## **Objectives/ Key discussion points & achievements**

### **Issues of Pre-Qualifying Criteria –**

Issues/concerns related to Qualifying criteria requirement of some of the utilities, price realization from PSUs, extension of tender dates, need for standardization, specifications and low investments in market were discussed in length at the division meetings.

Members also discussed in detail that Qualifying criteria for some of the utilities are too much diluted, due to which mushrooming of subquality manufacturers has grown which deteriorated the quality of material supply whereas on the other side, more underground cabling projects are coming up where the Pre-Qualification requirements are too stringent to meet as in case of Lucknow Metro. Members also expressed concerns regarding the decline of thermal power sector market which is a major area of concern for cable industry.

### **PVC Formula for AB and XLPE Cables-**

PVC Formula for AB and XLPE Power cables was discussed and the weight factor for XLPE/PVC/Polymer was decided for each parameter including steel, metals etc. to revise the formula. Technical committee along with IEEMA Secretariat worked hard and evolved a formula which got acceptable to all the division members and proposed to the Executive Council for ratification.

Weight factors for each parameter involved was suggested by various member organization. The change will be carried out for existing formula for LT and HT XLPE Power and Control Cable along with publishing of AB Cable (HT/LT) approved by the division.

**Type Test Validity for Cables -** Utility customers were asking for type test for cables all the time during supply of cables. This is not desirable based on reality and is waste of time and money.

This matter was discussed in details and it was felt that trust worthy practices and procedures in design, processing needs to be established. It is not essential to carry out Type test on each size and type of cable. Inputs were sought from the Cable division on the "ideal frequency" of conducting the type tests and the technical justification for the same.

Members have suggested to compare and use test reports from ERDA/CPRI spread over a period of 10 years

**CableWire 2018 Conference-** The last Cablewire Conference was held in the year 2011 which was attended by more than 200 plus delegates.

Members felt the need to organize the next CableWire edition in August 2018 at New Delhi where minimum 300 Delegates are to be targeted from various stakeholders including Government Utilities and broad topics to be covered. The Organizing and Technical committee have been formed and are working on the various aspects for making it truly international event.

### **Gaps in Cable testing facilities at CPRI and ERDA -**

The detailed list of testing facilities available at ERDA and CPRI were circulated in the division meetings and technical committee for member's inputs. Members discussed the same and identified gaps which exists and conveyed to the respective labs from time to time.

### **Active participation in BIS ETD 09 -**

Members have actively participated in ETD 09 committee of BIS and regularly shared the inputs. Various standards under the guidance of IEEMA technical committee members are also discussed and evolved.

## **Representations made:**

### **Representation on Pre-Qualification criteria-**

IEEMA made a representation to Tamil Nadu Discom regarding stringent Pre-Qualification criteria adopted by the DISCOM.

This is also against the Make In India initiative of the Government of India.

Demand Fans & Motors Capacitors however increased by about 12% with support from 10% growth in exports.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
CABLE	UNIT	2015-2016	2016-2017			
Power Cables	KM	553985	565332	2.0	553985	111.40
Special Purpose Cables	000'CKM	6428	7925	23.3	10289	77.02

## CAPACITOR DIVISION

- Industry Size: INR 560 Crs
- Exports: INR 230 Crs (estimated)
- Imports: INR 113 Crs (estimated, including Project Imports)
- Number of Members in the Division: 24 organizations (including Capacitor Manufacturers, manufacturers of accessories & component, EPC Contractors and others)
- Division Meetings:
  - 16th June 2016
  - 21st September 2016
  - 15th December 2016
  - 20th March 2017
- Number of Division meetings: 04 (Four)
- Average Attendance: 08 (Eight) Organisations

Overall, LT self Healing Capacitor demand declined by 6% & Non-self healing demand was stagnant, Exports of Self healing Capacitors declined by 11% reducing exports share to 62% from 65% in overall production. This also indicates about 40% growth in domestic demand.

HT Capacitor production was almost stagnant despite 7.5% growth in export order indicating decline in domestic demand.

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

Division was actively involved in following activities during FY 2016-17

#### Formulating standards for products and systems

IEEMA Capacitor division actively participated in Electrotechnical Committee (ETD 29) meetings of BIS in formulation of standards which is a step towards raising the industry standards. IEEMA representatives are member of majority of the 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.

Division initiated activity with NRPC (Northern Region Power Committee under CEA) few years back and prepared the product specifications for MV power capacitors. Many meetings were held and the final specifications were submitted after continuous efforts by division members which are yet to be approved by NRPC.

#### Preparation of Operation and Maintenance manual on Capacitors

The division planned to come out with an Operation and maintenance manual for capacitors highlighting the causes of big



failures/flashovers/sparking which occur in capacitor banks due to improper connections/ clearances/ protection settings etc. that help to disseminate knowledge on usage and applications of capacitors at site. The manual is under discussion and members are working to come out with a document that should not be any organisation specific.

### **RDSO**

Members have been discussing with RDSO to adopt new technology products instead of their ongoing old designs. Representation was raised to RDSO with proposal to revise the rating of the capacitor units for traction application from 220 KVAR, 8KV to 366.7 KVAR, 13.3 KV. A delegation of members met the RDSO officials also to explain the qualitative and quantitative aspects of the revised specifications. RDSO is yet to revert on the acceptance of the revised specifications.

### **Gaps in CPRI Testing**

Division had been discussing and meeting with CPRI to understand the test gaps of Capacitors as per IEC/IS at CPRI laboratory. Consolidated lists of gaps are being discussed with CPRI from time to time. Division felt that though there are gaps in various types of test facilities, inadequacies in performing certain tests, CPRI is not open to accept these gaps.

### **Task force constituted on type tests**

An internal committee was constituted within IEEMA with members from all divisions to seek inputs on a common concern about "applicability and validity of type test reports" amongst various Indian customers (mainly power utilities). Division compiled data on Type Testing for capacitors and submitted the recommendations. The concerns are still to be taken to the Utilities.

### **Increasing awareness amongst various stake holders on various aspects of power quality and benefits of power conditioning**

The benefits of installation of capacitors are well understood and established but the

actual installation is still lagging in India as compared to what would be required for optimal operation of our T&D network. With very high T&D losses and limited availability of good quality low cost coal, installation of capacitors is a very effective way of releasing MW that could be used to augment generation. The aspects and impact of various power quality issues is well understood and installation of power conditioning devices / capacitors is expected to improve the efficiency of entire system.

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 capacitors / power conditioning devices by utilities as well as end customers which could be expected to go a long way in growing the size of this critical industry.

### **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 1000 V category ratings from upto 150 KVAR to above 300 KVAR are covered.

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



IEEMA Statistics - Production Trend

NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
<b>CAPACITORS</b>	UNIT	2015-2016	2016-2017			
LT Capacitors	000'KVAR	29772	28036	-5.8	31958	87.73
HT Capacitors	000'KVAR	19405	19372	-0.2	22619	85.64
Starting/Running Caps.	000'Nos	68806	76136	10.7	68806	110.65

## CONDUCTOR

- Industry Size : INR 7,250 Crs
- Exports: INR 1,578 Crs
- Imports: INR 396 Crs
- Number of Members in the Division: 64 organizations
- Division Meetings:
  - 24th June 2016, New Delhi
  - 22nd September 2016, New Delhi
  - 11th November 2016, New Delhi
  - 7th March 2017, New Delhi
- Number of Division meetings: 04 (Four)
- Average Attendance: 13 (Thirteen) Organisations

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

#### Investigation on imposition of Safeguards Duty on "Unwrought Aluminium" by DG, Safeguards

An investigation was initiated by Director General, Safeguard on imposition of Safeguards Duty on "Unwrought Aluminium, on the petition filled by primary Aluminium Producers.

IEEMA met with Minister of Power, Minister of Commerce and various other Secretaries in the central ministries to discuss the matter in detail and strongly objected the petition filled by Aluminum producers. Several representations were made to these authorities, along with the data, stating that proposal to grant safeguard duty should be dropped and investigation terminated.

The following points were submitted to Director General, Safeguard in writing:

- a) The Primary producers of Aluminum would agree and undertake to provide supplies to all IEEMA members, for against fixed priced contracts of cables, conductors, transformers and/ or any other electrical products, for the entire project supply period, without taking the impact of any hypothetical imposition of any safeguard duty into consideration.
- b) It is always the basic principle of import duty, to have a lower duty on raw materials than on finished goods. Currently, that is not the case, and in the previous budget, the rate of import duty on Aluminium was increased from 5% to 7.5%, and hence, the rate of import duty on raw materials and finished goods for cables, conductors etc, is same as that of finished goods. Before any safeguard duty is imposed on the primary Aluminium, IEEMA asked for substantial duty protection, which in any case should be greater than the quantum of safeguard duty if so imposed, should be provided to finished goods such as cables, conductors, transformers or any other product group which uses Aluminium as a component of raw material, to nullify the incidents of inverted duty structure, if a safeguard duty is imposed.
- c) The government, prior to any imposition of safeguard duty must provide a long term solution to the Electrical Equipment Industry for addressing the inverted duty structure, prevalent under Chapter 98, under Project Imports. The applicable duty under Project Imports is only 5% and already the import duty on most of the components of the Electrical industry is up to 10%, thus resulting in a negative differential.

- d) In any case, we request that Transformers, Cables and Conductors and any other products currently manufactured in India should not be allowed to be imported under Chapter 98. These products should be reserved exclusively for the Indian manufacturers, at least for the domestically funded projects.
- e) 5 Micron Aluminium Foils, which is a critical raw material for manufacturing of Capacitors (power saving equipment) is not manufactured in India. This grade of aluminium foil is imported under HS code 7607 under 0% customs duty under ITA 1 Agreement. Imposition of Safeguards duty on this raw material (aluminium foil) will create serious inverted duty structure since the finished goods i.e. Capacitors, is also at 0% customs duty. Capacitor grade aluminium foil, under HS code 7607, should be kept out of the purview of Safeguards duty.
- f) In order to reduce imports against exports, the local primary producers should be asked to supply duty free material on LME basis, without charging an undue premium.

After a series of hearings, DG, Safeguard reviewed and eventually rejected the petition of Aluminum producers

### **Price Variation formula for High Temperature Low Sag (HTLS) Conductors**

Members felt the need to have a Price Variation Formula for HTLS (Invar). 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 HTLS.

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



## Interaction with CEA Senior officials

Apart from meeting senior CEA officials from time to time, Division invited senior officials on 11th November 2016 and discussed several industry issues with them.

## Conductor Seminar

Members discussed to organize the second National Seminar on Conductor technology, jointly with CEA. A committee was formed to plan and execute the overall activities. Several themes were identified and discussed. After discussing the Seminar over several Division meetings, it was decided to defer the Seminar to the later part of the year 2017-18.

## 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 also formed 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.

## Concerns on raising customs duty on Primary Aluminium Metal

Division raised a serious concern on raising customs duty on Primary Aluminium Metal as it is adversely affecting the downstream

industries. IEEMA has submitted a representations to the concerned authorities on the same.

## Representations were:

- Hon'ble Power and Commerce ministers on Initiation of Safeguard Investigation on Imports of Unwrought Aluminium.
- Secretary, Mines, Secretary, Commerce, Secretary, Revenue, Secretary, MSME, Secretary, MoP, Chairman, CBEC and Director General, Safeguard on Initiation of Safeguard Investigation on Imports of Unwrought Aluminium.
- Secretary, Commerce, Secretary, Revenue, Secretary, Steel, Secretary, MoP, Chairman, CBEC and Joint Secretary, TRU requesting to rollback imposition of Minimum Import Price on High Carbon Steel Wire Rod (HCSWR) and Steel Drums.
- Powergrid requesting to consider Aluminum price as LME AL in IEEMA PV formula for Conductors
- Secretary, Commerce, Secretary, Revenue, Secretary, Steel, Secretary, MoP, Chairman, CBEC and Joint Secretary, TRU requesting for rollback increase in customs duty on import of primary Aluminium metal.
- Powergrid requesting to discuss various issues faced by Conductor Industry and proposed changes in the tender documents.
- Powergrid requesting to consider IEEMA PV formula for HTLS.
- CEA requesting for Inclusion of Alternative Conductor such as AL-59, TACSR, ACSS in the TBCB Projects.

## IEEMA Statistics - Production Trend

NAME OF THE PRODUCT	UNIT	Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
		2015-2016	2016-2017			
<b>CONDUCTOR</b>						
AAC/ACSR/AAAC	MT	450145	427133	-5.1	450145	94.89



## ELECTRICAL INSULATING MATERIALS

- Industry Size: INR 2,000 Crs
- Number of Members in the Division: 38 organizations
- Division Meetings:
  - 16th June 2016, Vadodara
  - 29th September 2016, Mumbai
  - 21st December 2016, Mumbai
  - 16th March 2017, Mumbai
- Number of Division meetings: 04 (Four)
- Average Attendance: 11 (Eleven) Organisations

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

- Distribution side network is getting wider, in turn probably can lead to more projects.
- Ministry is trying to push up new projects.
- No significant change in market
- ERDA hosted a meeting for EIM Division

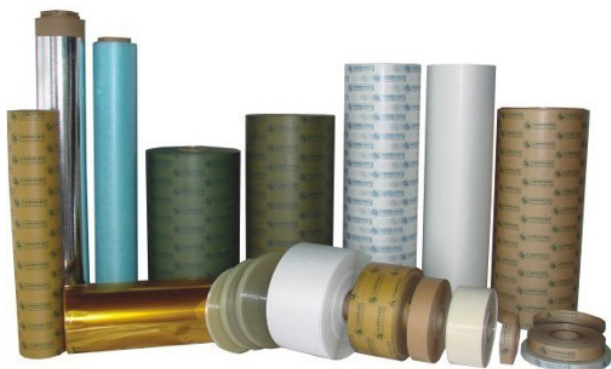
where members discussed issues related to acceptability of ERDA Test Certificates with foreign customers. Members stressed that ERDA should be marketing themselves to Foreign Utilities and OEMs for the same and also work to getting their certifications at par with UL certifications.

- Price war is continuous.
- Funds inflow/cash flow is the major issue.
- There is flat growth in the Transformer segment.
- Aerospace segment is standstill.
- Switchgear segment is low.
- Downsize in Auto & Auto ancillaries sector.
- Air Conditioner Sector is on the decline.
- Fractional HP Motor growth is good whereas Induction Motor growth is on the decline.
- Wind Sector is negative.
- Solar setup costs have dropped down.
- Margins are down, pricing is same.
- GST implementation - Hopeful on demand growth with competitive channel sales; however initial period will be pick up.
- Increased excise collection, indicate increase in good business practices by traders.
- Q4 FY17 is better as usual with solar, luminaries sector support.
- Good growth expected in mini-hydro & smart grid equipment.
- For some members, exports growing in North & Latin America but decline in EU region.
- Increased activity in Defence sector and as well as Make In India Program.

### IEEMA Electrical Insulation System (IEIS)

IEIS is a comprehensive insulation systems formed by combining individual products, wherein 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)



## ELECTRICAL LAMINATION COMMITTEE

- Industry size: INR3500 Crs (Estimated)
- Imports: INR 3,000 Crs and about 2.5 Lakh tons
- Number of Members in the Committee: 29 Organizations
- Division Meetings:  
Thursday, 13th October 2016, Mumbai
- Number of Division Meetings:  
01 Nos (One)
- Avg. Attendance:  
17 Nos. (Seventeen) Organisations

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

#### State of Industry (Demand and Supply)

State of Industry for Electrical Laminations was not considered in a good shape because of the demand and supply gap. In terms of price the market situation is very bad trend, however demand was expected to pick because of the announcement of new projects like DDUGJY and IPDS Schemes. Also the demand is less

because of the mandatory certification of BIS as per the Electrical Transformer (Quality Control) Order 2015.

Mills representative informed during one of the division meetings that demand was anticipated to be huge because of the announcement of power projects from PGCIL, however later, it was cancelled. Also it was informed that because of year ending all mills are targeting on the sales and all depend upon the Europe market as there is huge demand/ requirement. Chinese Industries are having good business. Mill representative informed that from January 2017 onwards market will be stable. Mills are also not expanding their capacity as new mills are coming up in the neighboring countries.

The CRGO prices was considered to have fallen very sharply over the last 8 months of calendar year 2016, has started recovering from the first quarter. Volatility in prices isn't good for any industry and we are hoping that the prices of CRGO which are currently rising (due to the uneconomical levels that they had fallen to for the mills) will sustain at a reasonable level and will stabilize so as to give the much needed impetus to the lamination industry.

It was also informed that Amorphous metal prices has also decreased from 2% to 3% and informed that Indian power sector is showing a shift from level 2 to level 3. Members also informed that China has excess quantity of M4/M5 and because of anti-dumping issues with some countries, large quantity is being dumped in India.

#### Steps to stop import of secondary and defective CRGO material

The biggest challenge facing the Electrical Lamination industry is the import of seconds and defective material by spurious methods despite CRGO being under BIS certification (non BIS approved CRGO is banned from import into India).

The import of seconds and defectives are





being done through SEZ's, they import thorough Inland container depots where the checks are not as stringent, they fake Mills test certificates by putting fake BIS mark and stickers on the material, they somehow manage to import used and second hand CRGO material by mis-declaring it as melting scrap through Chennai and Kolkata ports and they also import used and second hand CRGO as "Parts of transformer".

IEEMA Distribution Transformer division is preparing a white paper on this which will be submitted to Ministry of Steel, Ministry of Finance, Department of Heavy Industry & Ministry of Power. It was decided that Electrical lamination Committee and Distribution Transformer Division group shall work together to arrive at a logical conclusion.

Allowing import of Prime CRGO only directly from the Mills or mill's authorized distributors Imports from other sources should not be allowed at all. This will ensure that secondary material coming into the country disguised as Prime material with fake BIS certificates and fake BIS stickers will immediately stop, as the mill or it's authorized distributor's will never indulge in these practices.

Import of used material coming under the guise of "built up core" or "transformer parts" should be allowed only from actual manufacturers of these products and not from traders who are dismantling old transformers

abroad and mis-declaring these to enable their import in collusion with authorities.

### **Effect of BIS on CRGO availability and prices in the country:**

Committee discussed that with mandatory BIS certification in line with the Electrical Transformer (Quality Control) Order 2015, the demand for CRGO is high, however because CRGO is not manufactured in India and the local transformer industry is entirely dependent on the import of this material from about 8 to 10 foreign companies. Most importantly, these global suppliers will need to obtain BIS certification before shipping their products to India.

### **Strengthening Electrical Laminations Committee**

During the division meeting it was discussed that more participation of the members from lamination committee shall strengthen the lamination committee is making strong decision and policy interface with the government.



### **IEEMA Statistics - Production Trend**

NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
<b>STAMPING &amp; LAMINATIONS</b>	UNIT	2015-2016	2016-2017			
Motor Stampings	MT	74972	71431	-4.7	87680	81.47
Transformer Laminations	MT	92485	78102	-15.6	92485	84.45

## ELEVATORS & ESCALATORS

### Elevators & Escalators division

Elevator & Escalator is a mature industry in India comprising of number of SMEs, other domestic and multinational organizations. Growing urbanization is fueling the growth of this sector.

Post revival of IEEMA Elevator & Escalator Division in August 2015 by Executive Council, division meetings were held on regular basis every quarter in the fiscal FY16-17 at IEEMA Mumbai office. Discussions and deliberation in the division meetings were revolved around the objectives mainly to bring in more representation of manufacturers on the division and helping the industry to resolve various issues and promote the industry.

Members after considerable deliberations and review of online data submission process have decided to collect and compile production data of No. of Lifts and Total Value on annualized basis.

It has been decided to collect data from FY15-16 and further data will be collected with a time lag of 6 months as per compliance to competition act.

Members have also furnished inputs for IEEMA's pre-budget memorandum for clarifications for ambiguity in the Tax - both Central Tax like Excise duty, Service Tax and State level taxes like VAT and Issues related to operations and contract labours on a State level basis.

Members invited a reputed consulting firm for providing insights in proposed upcoming GST Law and preparing the industry to align their practices to this new regime. The interactions with the consultants have found to be very vital to the members for knowing & preparations in advance.

Division also worked on changes to be made in Karnataka Lift Act/rules for making

a representation to the state government suitably. This is the first step in the direction of uniform Lift codes throughout the nation.

## INTERNATIONAL BUSINESS DIVISION

With the ever and fast changing scenario of global as well as domestic economy, IEEMA International Business Division envisages to play a catalytic role in linking IEEMA with multiple stakeholders across the globe and projecting Indian Power industry as a stable and dependable partner, with an aim to access more markets and create B2B opportunities for membership.

IEEMA maintains a unique worldwide network of partnerships with governments (both at federal and at provincial levels), legislators, industry institutes, academia, think tanks, media, Indian Diaspora and multilateral agencies. It has a vast network of counterpart organizations to help Indian Industry reach out to all parts of the globe.

Meetings with Heads of State, decision makers and business delegations are coordinated for Indian business to develop meaningful and mutually beneficial partnerships across the globe. IEEMA International Business Division organizes missions of Indian business leaders and executives to various countries to facilitate direct dialogue, exchange of ideas and bilateral business opportunities.



Mr. Sanjeev Sardana President IEEMA & Mr. Kande K Yumkella UN Under Secretary General and Former representative of the Secretary General and CEO Sustainable Energy for All at AUW 2016, Cape Town, South Africa.

### The Division focuses on:

- Promoting international Cooperation
- Supporting progress of Power industry in trade, investment and related issues
- Promoting global connectivity for Indian industry
- Creating ground support for Indian industry in different countries through linkages
- Developing market access for Indian exporters
- Building people-to-people contacts with countries to enhance trade
- Providing investment into India
- Promoting Brand India

The Division is committed to stepping up its engagement with the Countries which are the potential markets for its Membership.

To access new markets and collaborate at the International Arena, IEEMA had participated in the following International Events:

#### **16th African Utility Week, 17-19 May 2016 at Cape Town, S Africa**

IEEMA participated in the 16th annual African Utility Week which is the only global meeting place of conference and trade exhibition for African power and water utility professionals..

The focus of this event was around power generation, T&D, metering, clean energy, finance, reliability, water supply or energy efficiency. AUW provided to our Members a platform for finding suitable solutions, best practices and case studies from around the world in the areas of power generation, T&D, metering, clean energy and energy efficiency. This year the focus was on T& D, Metering, Smart Grid, Conventional and Non-Conventional Power, energy efficiency etc.

IEEMA delegation was led by Mr Sanjeev Sardana Vice President, IEEMA and Mr Anil Saboo Chairman International Div, other members companies who participated as exhibitors under the auspices of IEEMA were



*IEEMA and SAEEC signs MoU at Africa Utility Week 2016*

C& S Electric, MEHRU, Technical Associates, Deccan Enterprises, Genus Electricals and Anvil.

The three day exhibition started with the Inaugural of the IEEMA Pavilion on 17th May, 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 members should and participate in such events so that the strength of Indian power sector is visible to the world.

IEEMA along with SAEEC organized an interactive session 'Electrifying Africa', special invites to the session were Mr Puneet R Kundal, Consul General of India in Cape Town along with Mr Kandeh K Yumkella UN Under Secretary General and Former representative of the Secretary General and CEO Sustainable Energy for All with Ms Nthabiseng Dube, Chairperson of SAEEC & Govt. Relations, Director of ABB.

Mr Anil Saboo and Mr Sardana spoke about 'India - Africa the way forward' connecting both the Countries for a WIN WIN situation in areas of Infrastructure development and financing the energy and power sector ,



new initiatives for capacity building, skills development and entrepreneurship in Africa, and deeper cooperation in areas of power sector.

The Conferences held during AUW 2016 focussed on various aspects of Power, Energy Efficiency, and Water. Mr Sanjeev Sardana and Mr Anil Saboo spoke on the Transmission and Distribution of Power.

The overall highlight of this delegation was the Memorandum of Understanding which was signed on 19th May between SAAEC and IEEMA. The MoU was signed by Mr Sanjeev Sardana, Vice President, IEEMA and Ms Nthabiseng Dube Chairperson of SAAEC & Govt. Relations ; Director of ABB. Mr Puneet R Kundal Consul General of India in Cape Town graced this occasion by being present at the MoU signing.

In addition to fostering partnership agreements between member companies other areas of collaboration will include:

- Skills and knowledge transfer between IEEMA and SAAEC members
- Facilitation of technology transfer agreements between IEEMA and SAAEC members
- Identifying and partnering in investment opportunities and sharing market intelligence for mutual benefit in both India and Africa.

Thus AUW 2016 acted as a platform to take the India Africa bilateral relations to the next level of mutual cooperation. SAAEC to continue the cooperation is participating in ELECRAMA 2018.

### **Middle East Electricity from 14 -16 February 2017 at Dubai**

With the aim to increase IEEMA's footprint across the globe, IEEMA participated at the annual Middle East Electricity (MEE) show held in Dubai from 14th to 16th February 2017. IEEMA had its stall at the India Pavilion where 50 leading Indian Companies participated.

His Highness Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai and the Minister of Finance of the UAE, officially inaugurated the 42nd edition of Middle East Electricity (MEE) in the presence of other VIP dignitaries. At the MEE, the India Pavilion was inaugurated by Mr Anurag Bhushan, Consul General of India in Dubai. After inaugurating the India Pavilion and interacting with the participants, the Consul General assured fullest support for promotion of Indian Industry & products by way of opportunities in UAE in general and Dubai in particular. Mr Rahul Srivastava, Consul for Commerce & Visa also participated at the Inauguration of India Pavilion.



IEEMA Delegation at Middle East Electricity

Middle East Electricity is the largest international trade event for the power industry, covering the generation, transmission and distribution of electricity, the renewable and nuclear energy sectors and the lighting industry. With over 1000 exhibitors spread over an area of 30000 sqms, the event witnessed a large international participation from various countries.

The IEEMA delegation was led by Mr Sanjeev Sardana, President, IEEMA alongwith Mr Harish Agarwal, Vice President, IEEMA; Mr

Vijay Karia, Chairman ELECRAMA 2018; Mr Anil Saboo, Chairman, International Division; Mr Ajay Mahajan, Head Trade Fairs Mktg IEEMA and Mr Naveen Upreti, Sr Executive Officer, IEEMA. The delegation had productive interaction with the exhibitors and various Country Pavilions.

The IEEMA stall at MEE attracted good number of international and domestic visitors. Most of the international visitors were those looking to enter India and were curious to know how IEEMA could facilitate their entry into the Indian market while Indian visitors were keen to know more about IEEMA and benefits of becoming a member. Visitors also enquired about the announcement of booking dates for ELECRAMA 2018 which is scheduled to be held in March 2018 at the India Expo Mart, Greater Noida.

#### **Interactions in various Cities of India with International Business Delegations:**

From Yunnan Provincial International Regional Cooperation (YNIC) 17 and 18 May 2016, IEEMA Kolkata and Delhi office had Yunnan Provincial International Regional Cooperation (YNIC) delegation from China, to focus on Energy Corridor building along with the process of BCIM Economic Corridor.

From Srilanka a business delegation of Electronic/Electrical Sector supported by Srilankan Deputy High Commission (based in Chennai) interacted with IEEMA Karnataka State Chapter Members on 24 September at CPRI Center in Bangalore.

IEEMA International Business Division had organized meetings with International Stakeholders: Mr. Harbs Bains, Senior Manager, Clean Technologies, Ministry of International Trade, Government of British Columbia, Canada and Joel Fernandes Director – India, International Trade and Investment Office, India. Government of British Columbia, Canada met and discussed on Smart Grid Solutions for the industry.

Mr Rick Wall, MD, Global Utility Group of Clarion Events met and discussed partnership with IEEMA for ELECRAMA and other activities of IEEMA.

Ms Ebru, Director Sales, from HHB Expo Company, İstanbul, Turkey, collaborated for ELECRAMA 18 with IEEMA.

Mr Kelly Butler, Marketing Director, BEAMA, signed an MoU with IEEMA, and have collaborated with IEEMA to participate in ELECRAMA 18.

## **INSTRUMENT TRANSFORMERS**

- Instrument Transformer Industry size: INR1250 Crs
- Imports: INR 525 Crs (no specific ITC code, data 'Other Trf' under ITC code 850131, 32, 33 & 34)
- Exports: INR 638 Crs (no specific ITC code, data of 'Other Trf' under ITC code 850131, 32, 33 & 34)
- Count of members in the division: 69 organisations (including manufacturers of accessories & components, EPC Contractors & others)
- Number of division meetings: 3 (Three)
  - 12th April 2016
  - 11th July 2016
  - 13th December 2016
- Average Attendance: 10 (Ten) organisations

### **Summary of division meetings: Objectives/Key discussion points and 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.

Instrument Transformer is well-established industry in India. The Instrument Transformers industry in India manufactures current transformers and voltage transformers of various rating from 0.66 KV to 765 KV, for indoor and outdoor applications. The industry also export instrument transformers in the range of indoor upto 36 KV and outdoor above 12 KV. Over the past few years, the industry has also demonstrated its capabilities by manufacturing 1200 KV CVT for 1200 KV test station by PowerGrid at Bina, Madhya Pradesh.

Over the last year, generally there was slowdown in the requirement of equipment and hence no improvement in the industry scenario. Even the market size was observed to be shrinking in 400 kV segment as well as 220/120 and 66 kV segments. The reduction in 765 kV segment was observed, mainly due to shift from AIS to GIS.

However no major threat was observed due to exports. In the changed industry scenario many players have entered the field with manufacturing of CTs up to 220 kV range. It was also observed that the customers raising the quality standards and imposing stringent quality acceptance criteria for these products. Some utilities are changing the specifications of CTs from porcelain type to composite insulator type.

The estimated value of instrument transformer industry is about 1269 crores; comprising for CTs and VTs. In 2016-17, imports of Instrument Industry was stagnant compared to 2015-16 while export increased by about 10%

The division worked on the following topics during FY16-17.

- 1.0) Participation in BIS Electrotechnical Committee meetings as well as IEC
- 2.0) Meeting with CPRI on test gaps
- 3.0) Trend analysis of Production data/ statistics and discussions on EXIM data

#### **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. "

#### **Meeting with CPRI on test gaps**

Division worked on the details of gaps existing at CPRI. A presentation was made ready by 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. (Meeting with CPRI was scheduled on 12th April 2017. Detailed discussions were held on Commercial and Technical concerns. )

### Production Statistics

In 2016-17, there has been growth visible in MV CTs & EMVTs. Exports have supported good growth for HV and EHV CTs outdoor type. CVTs – HV and EHV type however have grown mostly due to domestic demand.

There are 68 IEEMA member companies enrolled on Instrument transformer division of which 50 are manufacturers of Instrument transformers Members actively participate in meetings and detailed discussions are held on Industry size statistics



IEEMA Statistics - Production Trend

NAME OF THE PRODUCT	UNIT	Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
		2015-2016	2016-2017			
Current Transformers	000'Nos	723	603	-16.6	723	85.53
Voltage Transformers	Nos	104814	109601	4.6	114488	95.73

## INSULATORS

- Industry Size: INR 1990 crs
- Exports: INR 529 crs
- Imports: INR 355 crs
- Number of Members in the Division: 42 organizations
- Division Meetings:
  - 22nd July 2016, Delhi
  - 25th October 2016, New Delhi
  - 12th January 2017, Hyderabad
  - 8th March 2017, New Delhi
- Number of Division meetings: 04 (Four)
- Average Attendance: 8 (Ten) organizations

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

#### Activities under Technical Committee

BIS Electro Technical Committee (ET 06) desired to develop few non-existing standard and to review few existing standards in line with IEC. The tasks was assigned to IEEMA.

IEEMA Insulator technical committee met on several occasions, reviewed the standard of porcelain long rod insulators Committee had also reviewed the IEC 61109-2008, IS 8603 etc. in the technical committee meetings. The inputs have been sent to BIS for their adoption.

### **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 has been sent to all the state utilities.

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

### **Discussion on appeal letter by Indian Porcelain Insulator Industry**

Department of Commerce (DoC) had received an appeal letter by Indian Porcelain Insulator Industry, which they forwarded to IEEMA for seeking views.

Members deliberated and discussed the matter in detail. Division formed IEEMA views in consultation with the members and submitted the same to the concerned authorities.

### **Pilot Project at Bikaner on Ball Clay for Insulator Industry**

IEEMA had met DHI in July 2015 to deliberate on the prioritized points emerging out of the Mission Plan 2012-22 and converted them into Short and the Medium term action points. The following Mission Plan recommendation was one of the Short term action points related to Insulators:

### **Mission Plan Recommendation:**

#### **"4.2 Secure Supplies of Critical Raw Material / Key inputs**

Ministry of Mines, through the Indian Bureau of Mines, may initiate special scheme to assist clay miners in using beneficiation and other techniques to improve the quality of clay required for insulators This can be provided by giving ;

(a) technology support on clay blending and treatment; (b) setting up of a sophisticated

lab, which can be accessed by the miners for testing; (c) training on quality systems and control practices (Refer para 4.2, 4.2.4, 4.2.4.1)".

### **Action Point decided in the Meeting:**

"To improve the quality of Clay required for Insulators, IEEMA Insulator Division to prepare a pilot project and submit to the administrative deptt (DIPP) for funding of the same under Industrial Infrastructure Upgradation Scheme (IIUS) within the stipulated timeframe."

IEEMA Insulator Division prepared a proposal on the same and was submitted to DHI for consideration.

Members discussed proposal in several Division meetings and concluded that although the project proposal for clay beneficiation plant at Bikaner was submitted to Department of Industrial Policy and Promotion, however, the feasibility of the project is an issue in view of huge investments required for the project. Given the dire state of domestic porcelain insulator industry, which is on the verge of closure, the project timing is inappropriate.

Moreover, there is a requirement for large volume of water to run the project, which is not available near Bikaner.

In view of the same, members decided to drop the proposal from further pursuance.

### **Representations made:**

- Representation submitted to State Utilities requesting for consideration of 10 year validity of type test reports in line with IEC 60383-1, IEC 60168, IEC 62155, IEC 61109, IEC 62217 and IEC 62231.
- IEEMA views on the appeal made by Indian Porcelain Insulator Industry.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
INSULATOR	UNIT	2015-2016	2016-2017			
Disc Insulators	Nos.	7494658	7495812	0.0	11488905	65.24
Solid core & Long Rod	Nos.	560769	629667	12.3	607063	103.72
App based Insulators	Nos.	937335	907877	-3.1	2250260	40.35

## METERS

- Industry Size: INR 2580 Crs
- Number of Members in the Division: 45 organizations
- Divisional Meeting:
  - 5th May 2016
  - 21st July 2016
  - 22nd September 2016
  - 29th December 2016
  - 10th February 2017
  - 15th March 2017
- Number of Divisional meetings: 6(Six)
- Average Attendance:
- 13 (thirteen) organizations

- Actively involved with Ministry of Power and participated in various strategic meeting on Smart Meter rollout on opex model. The Division also formed a committee to work out the business models for Smart Meters rollout.
- The Division formed an organising committee for Metering India which comprised of representatives from CEA, BIS, NSGM, PGCIL, PFC, BSES, TPD and representatives from Metering Industry the Organising committee had total 10 meetings to shape the seminar.
- IEEMA actively Participated in meeting chaired by Ms. Vandana Kumar, IAS Joint Secretary Ministry of Commerce &

### Key Activities during the year:

- Technical committee prepared two white papers
  - o Smart Metering: A system approach rather than a product approach
  - o Certification/ re-certification process of product :IS15959
- Actively involved with CEA in reviewing the CEA Regulation (Installation and Operation of Meters) and given comprehensive inputs.
- Actively involved with UPPCL and participated in various meeting on Making Uday Happen.





Industry, DIPP on Inclusion of IS 15884 under mandatory BIS certification. Meeting concluded with a note that IS 15884 will be included under mandatory BIS certification same is to be gazetted shortly.

#### Representation Made:

Representation submitted to all DISCOMS of UP and Rajasthan regarding delayed payment and other related issues affecting the Energy Meter Industry.

Based on the representation an interactive session was organised with MD JVVNL where the issues was addressed by the concern officials.



#### IEEMA Statistics - Production Trend

NAME OF THE PRODUCT	UNIT	Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
		2015-2016	2016-2017			
METERS						
Energy Meters	000'Nos	29271	25175	-14.0	29271	86.01
M.D.I.	Nos	1796	881	-50.9	23020	3.83

## POWER GENERATION SYSTEMS

- Industry Size: INR 45000 Crores
- Exports: INR 10000 Crores
- Number of Members in the Division: 20 organizations
- Division Meetings:
  - 7th June 2016, New Delhi
  - 23rd August 2016, New Delhi
  - 8th January 2017, New Delhi
- Number of Division meetings:03 (Three)
- Average Attendance: 11 (Eleven) organizations

#### Summary of Division meetings:

State of Industry: Capacity additions in thermal power segment stood at 11,551 MW during the fiscal (FY 2016-2017). The conventional generation during 2016-17 was 1150 BU as compared to 1107.82 BU generated during 2015-16, representing a growth of about 4.72%. India's installed capacity of more than 326 GW as on Mar 2017 and has still a solid share of thermal power plants based on coal which accounts for sufficing the base load of the country.

Major concern for the power generators is the off-take of electricity. Power generators are struggling to sell power to debt-ridden State Electricity Boards (SEBs) or DISCOMS. Hence, a current situation has risen wherein there is excess of power but no takers for the same.

The government earlier introduced 'Ujwal

Discom Assurance Yojana' (UDAY) scheme to rescue SEBs. As per the scheme, 75% of the SEB loans will be transferred to their respective state governments. Transferring such huge quantum of loans will provide some relief to the SEBs in terms of finance costs. However, SEBs situation will improve only if there are regular tariff rationalization.

India's average PLF has declined for all thermal power generation utilities. However, the Central Public Sector Undertakings continued to be the best performers. Key reason for the declining PLFs was shortage of demand from Discoms.

As far as environment factors are concerned, India is cognitive of the global trend of gradually wishing away with polluting source of electricity generation. This includes replacement of old and inefficient sets with cleaner supercritical technology based units and renewable energy sources. But completely stripping of these capacities shall not be possible for one of the fastest growing economies of the world. Given, the estimate even if we consider India to grow by a normative 7% as an economy, the need of growth in infrastructural development shall also at least be of the same order. Despite country's Paris commitment to reduce carbon emissions, India has to continue on coal based sets for the next few decades for meeting its base load.

It was also opined that India's ageing thermal power plants could mean better times for companies in the thermal business. The CEA, in its Draft National Electricity Plan, has predicted that by 2022 many plants may get partial or no schedule of generation for lack of demand.

In fact, it is suggested that a market mechanism through regulatory intervention needs to be evolved so that the manufacturers of thermal plants are able to recoup their investments and, at the same time, the end

users are not unnecessarily burdened with high tariffs.

## **Objectives/ Key discussion points & achievements**

### **Sub Committee on White paper for Power Generation Equipment Industry**

To understand and discuss the ongoing issues in depth, a Sub- Committee within the division is formed and the following Terms of reference has been identified and worked upon:

- i. Power Generation Load Curve/ Duck Curve – Thermal, Hydro, Renewables.
- ii. Power Availability- Peak Shortage, Energy shortage- Current Measuring Pitfalls and estimation real shortage
- iii. Per capita consumption and its comparison with developed countries.
- iv. Latent Demand vs Apparent demand – Analysis.
- v. Demand projections till 2032 including Renewable Sources.
- vi. Optimum Energy mix to be targeted by the country (Conventional and Non-Conventional Sources).
- vii. Impact of initiatives like UDAY, Smart Grids, etc on the sector.
- viii. Roadmap for achieving the Optimum energy mix.
- ix. Importance of thermal power in the energy mix.
- x. New Technologies- Ultra Critical and Advance Super Ultra Critical.
- xi. New Emission Norms and their effects.
- xii. Impact of new Initiatives- 100 Smart Cities, Power for All, Housing for All, Make in India etc.
- xiii. Actions needed for boosting demand to increase equipment off take.

Valuable Inputs and Suggestions received from major organization such as BHEL,

DOOSAN Power, L&T and ALSTOM. Part inputs have already been shared by way of comments with reference to CEA draft NEP.

### **Retrials of Old Power Plants which are inefficient and polluting**

Division felt that with a substantial number of thermal plants getting old and recommended for retirement or modernization, refurbishment and efficiency improvement orders will come to the rescue of some of them. An estimated 30 GW of thermal plants needs replacement, refurbishment or modernization.

The opportunity can generate an annual business of the order of Rs 25,000 crore for five years. In fact, 188 thermal power plants out of a total 396 are more than 25 years old. They have a total installed capacity of about 56 GW, out of a total installed coal based capacity of 192 GW. Government is planning to scrap these plants and replace them with Ultra Super Critical plants. About half of the country's thermal power plants—which collectively account for almost 30% of total installed capacity—are over 25 years old, and a large number of them are fast approaching 40 years of operation.

It was also shared that generation capabilities of a thermal power plant reduce by about 40% with age, thereby calling for de-rating of such plants.

All these 25-year-old plants were built with technology that took care of pollution norms prevalent at that time. However, norms have turned stricter and these old plants need to spend more on adhering to norms. Renovation and modernization is one option but it has issues attached to it as the additional costs need to be passed through.

### **CEA - National Electricity Plan**

Regarding CEAs National Electricity plan, it was discussed that CEA projections are highly conservative and needs to be revised upwards. These conservative projections are not only worrying for equipment suppliers in the capital goods sector, (especially in

the boiler, turbine generator and related segments which in turn effects many other equipment's business) but also for the entire Power sector, as no mitigation plan is possible is the actual demand comes out higher, as is anticipated by the Industry. With most firms already strapped for orders, an absence of new coal power plants can have an adverse impact on equipment suppliers

### **Representation made:**

- Representation submitted to Ministry of Power and Central Electricity Authority regarding Extension of PMP Advisory for BTG Equipment's.

In response to subsequent Meetings and discussions, Central Electricity Authority extended the PMP advisory for BTG equipment's by 3 years. This is a much needed and welcome step by the Industry.

### **India's Installed Capacity**

**Total Installed Capacity (As on 30.4.2017)** - Source: Central Electricity Authority (CEA)





Sector	MW	% of Total
State Sector	81,167	24.7%
Central Sector	1,04,447	31.7%
Private Sector	143,590	43.6%
Total	3,29,205	
Fuel	MW	% of Total
Total Thermal	2,20,570	67.0%
Coal	194,403	59.1%
Gas	25,329	7.7%
Oil	838	0.3%
Hydro (Renewable)	44,594	13.5%
Nuclear	6,780	2.1%
RES* (MNRE)	57,260	17.4%
Total	329,205	

\* Installed capacity in respect of RES (MNRE) as on 31.03.2017.

## DISTRIBUTION TRANSFORMERS

- Industry Size: INR 6,478 Crs
- Exports: INR 126 Crs
- Imports: INR 1,048 Crs
- Number of Organizations in the Division: 70 organizations.
- Division Meetings:
  - 25th May 2016, Delhi
  - 22nd July 2016, Delhi
  - 13th October 2017, Mumbai
  - 31st January 2017, Jaipur
- Number of Division meetings: 4 (Four)
- Average Attendance: 18 (eighteen) organizations.
- Divisional Events/Conference:
  - a) Awareness Workshop on Electrical Transformer Quality Control Order on

30th May 2016 at India Habitat Centre, New Delhi

- b) 2nd TRAFOTECH Workshop on 22nd -23rd November 2016 at India Habitat Centre, New Delhi on Life Management of Transformers
- c) Organized Seminar on Relationship of AT&C Losses and Transformer Failure on 31st January 2017 at Jaipur for Rajasthan Discoms.

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

#### Extension on Electrical Transformer (Quality Control) Order 2015:

Department of Heavy Industries issued a fresh Gazette Notification on Electrical Transformer (Quality Control) Order 2015 on 7th May 2015. As per the gazette notification the order shall come into force from 1st of August 2015.

Further, Department of Heavy Industries has issued an extension of Electrical Transformer (Quality Control) Order dated 6th June 2016 wherein DHI has decided to allow the manufacturers to execute the supplies against "only confirmed purchase contracts" which were prior to 01.02.2016, instead of 07.05.2015, without BIS Certifications. For all new tenders/contracts, the provisions of Electrical Transformer (Quality Control) Order 2015 shall prevail.

IEEMA has repeatedly informed members 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

#### Presence of IEEMA DT Division in BIS ET-16 Meetings:

- a) Designated Technical Committee Members for attending ET-16 meetings

Distribution Transformer division designated Technical Committee members to attend

BIS ET-16 committee, so that all technical points related to DTs are presented to BIS for consideration.

**b) Inclusion of Internal Circuit Breaker (ICB) in IS 1180(Part-1):2014**

IEEMA delegation had met Secretary (Power) on 10th March 2016 where the subject of using ICB was raised and BIS was asked to look into it. On the directives of Ministry of Power, BIS has formed a panel to start working for inclusion the Internal Circuit Breaker in IS 1180(Part-1):2014

**Amendment to IS 1180(Part-1):2014**

IEEMA Distribution Transformer Division had represented its say in ETD Panel meetings P-11 and P-12 and ET-16 on 7th & 8th July, regarding the amendment to IS 1180(Part-1):2014 which were intended to come into two parts i.e.

- 1) Amendment with Internal Protection devices and disconnection devices to be allowed to be used as an optional fitting.
- 2) Amendment with detailed testing applicable to the Internal Protection devices/disconnection switches.

Internal Protection device was agreed to be considered as an optional fitting. It was further agreed that till the time new Indian Standard is formulated, the internal circuit device shall be governed by IS: 60947-2, and disconnection device by IS: 9385(Part-2).

**Standard on Repair and Maintenance of Distribution Transformers**

Chairman DT division advised that Technical Committee members should examine the draft prepared by International Copper Association India and relook on the contents.

**Meeting with Department of Heavy Industries 18th April 2016**

IEEMA delegation of Distribution Transformer Manufacturers had a meeting with Jt. Secretary DHI about the challenges faced by the DT industry, particularly on the contracts awarded prior to the date of implementation

of the Transformer Quality Control Order i.e. 1st February 2016.

DHI had exempted Transformers manufactured as per the contracts awarded prior to May 2015 notification, however due to protracted delivery schedules of the purchasers (Discoms) and revised BIS Guidelines issued in November 2016, DT industry request is for exemption on the contracts awarded prior to 1st February 2016. DHI has informed that repeated amendment dilutes the sanctity of the gazette notification. DHI explained the rationale behind giving relaxation from the date of amendment to the Quality Control Order in May 2015. DHI took the views from BIS, CEA, CPRI and ERDA representatives on the IEEMA request. None of them had any objection to giving exemption to the transformers being manufactured against the contracts awarded prior to 1st February 2016. DHI acknowledged the problem as a genuine concern and assured that the DHI will address the issues in best possible manner.

DHI informed that they will take action as per provisions of the Quality Control Order for any violation by manufacturers after the relaxation period is over or for orders issued by utilities after 1/2/16 against the provisions of the Quality Control Order.

DHI consented to partner with IEEMA in organizing such workshops for making SEBs aware about the overall objective of the notification. DHI also agreed to involve Ministry of Power and CEA in these awareness Workshops, apart from BIS.

DHI also informed that if at all the cutoff date is extended to 1st February 2016, it would be the last extension. No Discoms should henceforth tender for procurement of Distribution Transformer in violation of the Quality Control Order, and no manufacturer should quote against such tenders as the primary responsibility of compliance with the Order rests with the manufacturers

### **Representation to DG, BEE on issues related to renewal of license for star labelling scheme:**

BEE issues permission to affix BEE label on Transformers for a period of three years from the date of approval. The manufacturers were advised to apply for renewal after three years, but within the validity of license. While renewing the approval, BEE issues the permission for three years from the date of issue of renewal of the letter.

It was highlighted that the time between submission of renewal application and the approval takes not less than 3 to 4 months' time. The BEE guidelines were silent about the manufacture/supply of the star rated transformers between this intervening period, even though the manufacturers are paying the star label fees for the transformers manufactured/supplied during this period.

### **Awareness Workshop on Electrical Transformer Quality Control Order on 30th May at New Delhi**

IEEMA Distribution Transformer Division organised a one day Awareness Workshop in Delhi with the support of the Department of Heavy Industries, Ministry of Power, Bureau of Indian Standards and Central Electricity Authority on 30th May 2016 in New Delhi.

Mr. R.K.Singh, Joint Secretary, DHI was the Chief Guest for the Workshop. Dr. A.K.Verma, Joint Secretary, Ministry of Power was guest of appearance. Other important dignitaries present were Mr. Joy Varghese, Deputy Director General, Bureau of Indian Standards; Mr. Pawan Jain, Chairman IEEMA DT Division; Mr. Alok Agarwal, Vice Chairman IEEMA DT Division, Mr. Ajay Sanghi, Convener of the program and Mr. Sunil Misra, Director General IEEMA.

The workshop was attended by more than 200 participants where 73 officials were from 42 State Power Distribution Companies from 23 states. More than 40 officials were from different Govt./Semi Govt. sectors from

MoP, CEA, BIS, CPRI, NTPC, REC, PFC, BEE, ERDA etc. Presentation were given by CPRI and ERDA wherein IEEMA requested them to expedite the testing procedures within time and also to rationalise the testing charges.

A panel discussion was also organised where participants interacted with the officials from DHI, BIS, CPRI and ERDA for smoother implementation of the Electrical Transformer Quality Control Order.

### **Compliance with Electrical Transformer (Quality Control) Order 2015 in line with IS 1180(Part-1): 2014.**

IEEMA wrote letter to all State Electricity Boards/Discoms to adhere to the provisions defined in the Electrical Transformer (Quality Control) Order and invite tenders in line with the provisions of standard IS 1180(Part-1):2014 only.

For information, CEA also issued an advisory on 26th May 2015 to all the state electricity boards regarding the statutory requirements to manufacture, store, sale and procure DTs of standard ratings only as per IS 1180(Part-1):2014, in compliance with the Quality Control Order.

### **BIS licensees as per IS 1180(Part-1):2014:**

During April 2016 to March 2017, around 250 license were granted by BIS to transformer manufacturers for different levels as per IS 1180(Part-1):2014



Awareness Workshop on Electrical Transformer Quality Control Order with DHI



### **Response by BEE to IEEMA on Renewal of Star Labelling scheme by BEE:**

BEE informed IEEMA that manufacturers do not submit the required documents on time which leads to delay in the application process. If the submission of documents is not done within 60 days period, the application automatically gets cancelled and this leads to delay.

Most of the time manufacturers submit wrong/invalid/expired documents to BEE which requires resubmission of revised documents and thereby delays the process.

### **Tenders issued by Utilities for procurement of Transformers with CSP, ICB and Non-preferred ratings**

IEEMA wrote number of letters to those utilities who were floating tenders which are not in line with IS 1180(Part-1):2014 as per the information received from members from time to time.

### **Representation to BIS for clarification on Factory visit for inclusion of rating in BIS license:**

IEEMA represented this issue to BIS that as per the revised guidelines the checking/testing of general requirements is to be done during preliminary inspection for grant of license as per procedure laid down as per clause I, and not for operation of license as specified at Clause II as the same has already been verified during preliminary visit during selection of sample and grant of license. It was informed that factory inspection for checking general requirements specified at clause I(4) for every inclusion will be a very time consuming and costly process.

IEEMA had sent a representation to BIS for issuing a suitable clarification instead of factory visit for every inclusion. Hence an undertaking from the manufacture for meeting the general requirements may be taken.

### **Formation of Monitoring Committee to review the implementation of the Electrical Transformer (Quality Control) Order 2015**

IEEMA requested DHI to form a monitoring Committee to review the implementation issues related to the Quality Control Order where following was suggested

- a) Composition of Committee b) Terms of Reference c) Frequency of the meeting.

### **First Monitoring Committee Meeting 27th September 2016**

The first meeting of the Monitoring Committee was held on 27th September 2016 to oversee the implementation issues related to the Quality Control Order. The meeting was chaired by Shri R.K.Singh, Joint Secretary, DHI. Representatives from DHI, MoP, CEA, WBSEDCL, CPRI, ERDA, National Test House-Ghaziabad, National Test House- Alipore, West Bengal, DT Manufactures, IEEMA and ITMA participated in the discussion. Following was decided by DHI during the first monitoring committee meeting

- a) National Test House should be brought in as testing laboratory for certification of the transformers up to 2.5 MVA for grant of license by creating necessary test facilities.
- b) Instead to creating additional labs to cater the crisis of testing laboratories, engineering colleges like IITs/NITs may be considered for conducting tests which are NABL accredited.
- c) DHI enquired whether 4 labs (2 from CPRI and 2 from ERDA) are adequate enough for testing. DHI also suggested that there is a need to identify few clusters where basic model of transformer testing could be established.
- d) DHI advised ERDA to spread their existence in other regions of the country.
- e) DHI opined that there should be time

bound actions by BIS to speed up the licensing procedures as the manufacturers are suffering from penalties from the state board as they are not able to supply the product because of the delay in testing.

- f) DHI suggested that MOP should intervene into the issue of testing facility. As industry has grown exponentially, the laboratories are not able to do testing activities in a time bound manner.
- g) DHI advised IEEMA to organize more such awareness workshop in different parts of the country where there is resistance w.r.t the QC Order. IEEMA informed that to start with they will organize first in Mumbai and later to the other regions to create awareness among all stakeholders
- h) DHI categorically informed that there is not going to be any further extension on the Electrical Transformer Quality Control Order 2015.

#### **Meeting with Chief Engineer (DPD), Central Electricity Authority**

IEEMA delegation had a meeting with Chief Engineer, CEA (DPD) on 17th February 2017 to discuss on the issues related to the Gazette Notification on New Star Rating of Distribution Transformers issued by Ministry of Power dated 16th December 2017.

Following was decided as an outcome of the meeting:

- a) BEE should have a wider consultation process for future amendments on notification on distribution transformers and other matters
- b) CEA agreed to form a monitoring committee to discuss all issues related to DTs.
- c) BEE was requested to inform all state utilities and manufacturers regarding the new gazette notification and its subsequent amendments.
- d) In regard to the dual certification, BEE would take all actions as per the decision of the meeting taken by JS (Dist.), MoP

on 29th June on dual certification of distribution transformers

#### **TRAFOTECH Workshop 2016**

IEEMA Power and Distribution Transformer Divisions jointly organised the 2nd TRAFOTECH Workshop on 22nd -23rd November at India Habitat Centre, New Delhi on Life Management of Transformers. The last session was dedicated to Distribution Transformers. Mr. Prabhu Narain Singh, Director- National Smart Grid Mission chaired session VI" themed on Distribution Transformers- issues, concerns and remedies. Mr. Jacob George, Vice President, Toshiba T& D India was the Key note address and Mr. Vinamra Agarwal, Director Technical Associates was the rapporteur for session VI who summarized the papers for the authors

#### **Gazette Notification issued by Ministry of Power dated 16th December 2016**

Division Chairman had informed members regarding the new gazette issued by Ministry of Power dated 16th December 2016 which mandates star labelling of distribution transformers. Chairman informed members that before implementation, it was important for MoP/BEE to first give adequate time. It is also conveyed that after so many extension on Electrical Transformer (Quality Control) Order issued by Department of Heavy Industries, things had got settled on issue of the mandatory BIS certification and the number of BIS licensees as on date is approximately 340 Nos., who has already taken BIS license for various ratings.

Chairman informed that DT Division of IEEMA has represented the matter to the Ministry of Power that compliance of the notification will attract lot of confusions among the manufacturers and utilities and current tender process and execution of the orders will fall under challenging stage. It was also informed that Ministry of Power should put the notification under hold and make necessary amendments after due deliberations with all stakeholders. Representation were made to

Special Secretary, MoP and BEE for getting some time extension for implementation of the said order with some amendments.

IEEMA also informed that BEE is mandated by Energy Conservation Act 2011, which cannot be removed so easily. The removal of BEE gazette may be dealt through a different route of Ease of doing business by representing the matter to Ministry of Commerce & Industry, Department of Industrial Policy & Promotion.

Chairman suggested that industry should wait for getting a suitable extension from BEE and then a different modulus operandi may be initiated for removal of BEE.

#### **Delay in Testing by ERDA:**

Chairman and other division members has raised the issue of delay in testing by ERDA in various meetings. ERDA informed that initially the manufacturers used to interact with the labs officials directly, but now ERDA has appointed new officials in several states/ regions for solving one to one issues related to the testing of transformers

#### **Issues related to tendering process for DDUGJY and IPDS Schemes by PGCIL and by states.**

Division Chairman informed members that entire scheme of DDUGJY and IPDS tenders done by PGCIL has got a very bad hit. Chairman informed that IEEMA delegation has met PGCIL officials, where they informed that all next phases of DDUGJY tender bidding process have been cancelled and states are now allowed to buy materials as per their invited tenders

It was informed that first phase of the PGCIL invited tenders, 5 states i.e. U.P, Maharashtra, Chhattisgarh, Madhya Pradesh and Orissa had taken permission from Ministry of Power to procure materials as per their choice. Other states are ready to go as per the PGCIL adopted process.

Chairman also informed members that during a recent meeting of power secretaries with

Power Minister, it was opinioned during the meeting that most of the transformers fails in less than 5 years so capitalisation of loss values has no relevance.

Chairman informed members that IEEMA should take up this matter with Ministry of Power.

#### **Requirement of Lab in Jaipur for Transformer Testing.**

IEEMA delegation met Mr. S.N Tripathi, Addl Secretary, MSME in Delhi to discuss various issues related to the electrical industry, where the idea of setting up of independent lab in Jaipur was put, which was welcomed by MSME. Mr. Ajay Sanghi, Member IEEMA informed that even MSME was keen in setting up of lab by themselves or through one of cluster scheme available.

Mr. Ajay Sanghi informed that MSME has advised that a group of manufacturers can associate together and set up a full scale laboratory with NABL accreditation and there are subsidies available from the Government.

#### **First Meeting of Working group on testing facilities of Electrical Equipments at Department of Heavy Industries, Udyog Bhawan, New Delhi**

On 3rd February, the first meeting of working group of testing facilities on Electrical Equipment was called by Department of Heavy Industries at Udyog Bhawan. The meeting was chaired by Shri Bhaskar Jyoti Mahanta, Joint Secretary, Department of Heavy Industries. Shri Vijay Prasad Singh, Director (PG Cell), DHI; Shri K.K.Tiwari, Industrial Advisor, DHI & Shri Sanjiv Kumar Gupta, Under Secretary participated in the meeting. Representatives from NTH (Ghaziabad), BIS, ERDA and IEEMA participated in the meeting. The brief discussion points of the meeting were regarding the urgent requirement of testing lab for distribution transformer testing in northern region, seeing more cluster of manufacturers in northern India. Director General, NTH informed that their test lab is NABL accredited and they can test



transformers up to 1000kVA once BIS gives its accreditation.

### **Achievements of IEEMA Distribution Transformer Division:**

- On IEEMA's persistence, National Test House, Ghaziabad was recognised by BIS for transformer testing as per IS 1180(Part-1):2014
- Delay in testing by ERDA & CPRI – was taken up by D.T. Division on all forums. Division's effort has been instrumental on pushing the testing labs to perform better.
- Awareness was spread among the industry about the effective presence of IEEMA as D. T. Division, acceptance as a whole in the country has gone too high, much more still to be done.
- Interaction with all the Government bodies at Central and at State level has been regularly done such as meeting with BIS – Jaipur, JVVNL – to improve their specs in line with IS 1180, Meeting with Maharashtra Utility for implementation of Quality Control Order in line with IS 1180., meetings with U.P. Utility heads at Shakti Bhawan, Lucknow about failure of D.T. due to Overloading, Meeting with M.D. DVVNL, Agra – taking project TUNDLA on national level.

### **Representations done by IEEMA Distribution Transformer Division during April 2016 to March 2017:**

- a) IEEMA representation was made vide No. SEC/REP/DTTRF/UK/102 dated 04th April 2016 to Superintending Engineer (MM), JVVNL for making amendments in Technical Specification in line with the Transformer Quality Control Order & IS: 1180(Part-1):2014 for Tender TN-1223 & TN-1222.
- b) IEEMA representation was made to Director General, Bureau of Energy Efficiency vide No. SEC/REP/TRF/UK/140 dated 28th April 2016 on issues related to delay in the renewal of license.
- c) IEEMA representation was made to Chief Engineer (MM), MSEDCL to write to DHI for conveying their compliance to Electrical Transformer (Quality Control) Order and no further extension beyond 1st February 2016 would be made. Also all future tenders may be invited as per provisions of Quality Control Order in line with standard IS 1180(Part-1):2014
- d) Representation to CGM, APSPDCL vide reference no. DIV/TRF/UK/ 187 dated 12th May 2016 regarding their requirement of ISI marked Transformers with CSP components by Southern Power Distribution Company of A.P. Ltd.
- e) Representation to DDG (Certification) vide reference no. SEC/DIV/TRF/UK/ 188 dated 12th May for issuing suitable clarification that instead of factory visit for every inclusion, an undertaking should be taken from the manufactures for meeting the general requirements as mentioned in clause I(4) be accepted for compliance of IS clause No. 6.9/7.9/8.9,11,14,15.3,15.5,16 & 20.1 and the same may be verified during periodic inspections.
- f) Representation to Executive Director, REC vide reference no. SEC/REP/TRF/UK/204 dt. 24th May 2016 on issues related to procurement process under DDUGJY/ IPDS schemes.
- g) Representation to Joint Secretary, Department of Heavy Industries vide reference no. SEC/REP/TRF/UK/261 dated 20th June 2016 for formation of monitoring committee for reviewing the implementation issues of Electrical Transformer QC order 2015.
- h) Representation to Under Secretary, Department of Heavy Industries vide reference no. SEC/REP/TRF/UK/269 dated 29th June 2016 for issuing a clarification on the cut-off date for the contracts which are placed prior to 1st of February 2016.

- i) Representation to Head ETD, BIS for bringing amendment to IS 1180(Part-1):2014 into two parts with a recommendation that First Amendment with Internal Protection devices and disconnection devices to be allowed to be used as an optional fitting, while second amendment should be brought with details of tests applicable on Internal Protection devices/disconnection switches.
- j) Representation to Director, ERDA vide reference no. SEC/REP/TRF/UK/446 dated 20th October 2016 for delay in allotting the test dates for BIS certification of Transformers up to 2.5MVA.
- k) Representation to GM, BESCOM vide reference no. SEC/REP/TRF/UK/52 dated 08th February 2017 for inviting tenders in line with the provisions of the gazette issued by Ministry of Power dated 16th December 2016.
- l) Representation was made by IEEMA vide our letter SEC/REP/TRF/UK/616 dated 22nd December 2016 to Special Secretary, Ministry of Power on issues related to Gazette Notification issued by Ministry of Power dt. 16th December 2016
- m) Representation made to BEE vide

reference no. SEC/REP/TRF/UK/628 dated 30th December 2016 for issuing a necessary amendment to the gazette notification issued by MoP dated 16th December 2016

- n) Representation to Director, Ministry of Consumer Affairs, Food and Public



2nd TRAFOTECH Workshop on Life Management of Transformers at New Delhi



2nd TRAFOTECH Workshop on Life Management of Transformers at New Delhi

#### IEEMA Statistics - Production Trend

NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
Distribution Transformers	UNIT	2015-2016	2016-2017			
Distribution Transformer - Production	MVA	47491	43512	-8.4	47491	91.62
Distribution Transformer - Export	MVA	2335	3418	46.3		
Distribution Transformer - Production	Nos	406689	387517	-4.7	406689	95.29
Distribution Transformer - Export	Nos	9059	19593	116.3		

Distribution vide reference no. SEC/REP/DIV/TRF/UK/73 dated 23rd February 2017 for inclusion of National Test House(NTH) as recognised laboratory by Bureau of Indian Standards for testing of Distribution Transformers up to 2.5 MVA as per IS 1180(Part-1):2014

## POWER TRANSFORMERS

- Industry Size : INR 5860 Crs
- Exports:INR 1460 Crs
- Imports:INR 315 Crs
- Number of Organizations in the Division: 175 organizations.
- Division Meetings:
  - 1st June 2016, Mumbai
  - 26th July 2016, Mumbai
  - 26th October 2016, Mumbai
  - 6th January 2017, New Delhi
- Number of Division meetings: 4 (Four)
- Average Attendance:
  - 14 (Fourteen) organizations
- Divisional Events/Conference:
- 2nd TRAFOTECH Workshop on 22nd -23rd November at India Habitat Centre, New Delhi on Life Management of Transformers

### Summary of Division meetings: Objectives/ Key discussion points

#### Implementation of Power Transformer Standardization Manual IEEMA 25-2014:

IEEMA informed members regarding the objective of creating the Power Transformer Manual. It was informed that the activity started on 2013 and it was launched during ELECRAMA 2014. The objective was to get it implemented through CEA as going from state to state was not possible. IEEMA has considerably built trust with Power Minister and even the Minister himself wants things

should be standardized so this is the right time to pitch in this subject.

The manual itself was not adopted by GETCO though it was formulated under the Chairmanship of MD, GETCO.

It was deliberated that IEEMA Technical Committee Members of Power Transformers (Mr. Virendra Lakhiani, Mr. Vikrant Joshi, Mr. P. Ramachandran and Mr. Vijayakumaran) may revisit the manual and pitch in the important points. Technical Committee thereafter can prepare a portion of some important (Topmost 5 points required to be implemented) in the form of presentation which can be taken up with CEA and IEEMA Secretariat should drive it down to the relevant authority.

Director General, IEEMA also expressed his views regarding his meeting with CEA and MoP officials for implementation of the manual by all state utilities. He also apprised members that as the document was prepared by MD, GETCO, Gujarat, so there can be a practical resistance from state to adopt it because of their peer rivalry. DG informed members that had this manual been prepared by IITs, which is a neutral organization the issue of adoption may not be a problem. DG requested Mr. Ramachandran to map utility wise deviations also while revisiting the document.

Some members informed that there is a similar manual on Transformers prepared by ITMA, which was asked to be arranged by IEEMA Secretariat for Technical Committee Members to review and study.

It was informed that almost two and half years had gone and nothing concrete has been done. Mr. Vikrant Joshi and other Technical Committee members were requested to prepare a gist of important points from the manual and give a presentation to CEA within 2 weeks' time to take the activity forward.

IEEMA Technical Committee decided to formally submit the Power Transformer



Manual to CEA. IEEMA delegation met Director (Transmission), MoP on 22nd July 2016 to discuss on the manual and following was decided during the meeting

- a) MoP will write letter to all Energy secretaries of states and Transmission Company Chairman for their feedback on the manual.
- b) IEEMA was asked to provide the soft copy and hard copies of the manual.
- c) Committee is being set up by MoP for further driving the activity. IEEMA was also requested to provide terms of reference for the manual.

Chairman emphasized that IEEMA delegation should meet CEA officials comprising of few Technical Committee members in first week of August 2016 for further pushing the activity.

IEEMA requested MoP to form a committee for the implementation of the manual. It was informed to members that the standardization manual was widely circulated to all states, however none of the states/Ministry has taken it seriously.

Mr. Ramachandran informed that 2nd edition of the manual can be referred as IEEMA Buyers guide wherein additional points like type testing can be included in the manual.

IEEMA informed that MoP has constituted a committee for standardization of the manual with CEA Chairperson as Chairman of the Committee and Chief Engineer (R&D), CEA as Convener. The committee also include representatives from PGCIL, MoP, GETCO, RRVPN, HVPN, BHEL and IEEMA

Two Committee meetings has already taken place in CEA for preparation of the Power Transformer Manual.

Members were informed regarding the efforts put up by the division in reviving the activity with Ministry of Power and CEA for implementation of the IEEMA Power Transformer Manual.

### **Delivery Requirements in recent MSETCL tender for Power Transformers:**

IEEMA has represented this issue to MSETCL about the recent tender invited for Power Transformers where the delivery requirement was not realistic. IEEMA represented the matter with MD, MSETCL & got the same amended.

### **Standards on fittings/accessories as per IS:3639**

IEEMA informed members out of 11 fittings and accessories identified by Technical Committee members as per IS: 3639, Draft standard on Radiator is already under wide circulation by BIS. Other four drafts finalized by IEEMA Technical Committee members has also been submitted to BIS Panel members which includes Air cell and air cell rupture device, Buchholz relay, Earthing terminal, Roller and Neutral Grounding Bar and Impact recorder.

Secretariat requested members to expedite the remaining five standards viz. Heat Exchanger, Temperature Indicators (OTI & WTI) and Thermometer Pockets, Pumps & Fans, MOG, PRD, OFI, Breather, Sudden Pressure Relay, Fibre Optic Sensors and Cabling, Conduits, Cable trays.

### **Revision of CEA Regulations 2010 – Inputs to CEA:**

IEEMA informed members that CEA regulations 2010 on Technical Standards for Construction of Electricals Plants and Electrical Lines) were being reviewed and amended. CEA has requested IEEMA to provide comments for any change in the regulation with technical justification by end of July 2016.

### **Type Test recommendations for Power Transformers**

IEEMA has formed a Task force which has formulated a base paper on Type test Validity and applicability for different products. The base document paper prepared by Dr. R. Venkatesh, Task Force, Convener was send to

key members from the divisions to give their inputs so that a comprehensive document could be submitted to CEA for consideration by end of August. Members were requested to go through the document and give their recommendations on ideal frequency of conducting type test giving proper justification with technical/document support.

In a couple of past meetings also members deliberated on the requirement of type test for different product groups, and the possible arguments to assure CEA that extended validity of type test shall not compromise on the product quality and reliability.

It was agreed that the frequency of the type test requirement shall vary from product to product, and a uniform time interval cannot be suggested for all the products.

### **Utility Commercial Terms and Conditions**

IEEMA has formed a committee which was set up under the convenorship of Mr. Bapu Amritkar where inputs from all divisions were obtained on commercial terms and conditions with different utilities. Members has reported IEEMA regarding the difficulties with one sided contract terms and conditions practiced by many utilities, so committee prepared a matrix covering all pain points and

suggestions with justification. This subject was once presented to EC by Mr. Ukil and Mr. Bapu Amritkar. Executive Council once again requested to discuss this subject with other product divisions and further EC could take it to the highest level in the Ministry.

IEEMA has already represented the matter to state utilities in December 2016. IEEMA in its representation has highlighted all important points and had requested appointment with the utility heads for taking the matter seriously.

### **CPRI Test Gaps**

IEEMA informed members that this issue was discussed with CPRI and test gaps identified by members were send to CPRI for consideration. Members decided to review the test gap matrix once again.

### **Mandatory Testing of Imported Equipment's**

IEEMA delegation has met Minister (Power) for mandatory testing of imported equipment's at CPRI. Members suggested that all major electrical equipment imported to India must be tested at CPRI. Such provisions may check unrestricted imports, and also ensure quality and reliability of the imported equipment.

### **Demand Forecast Study**

About 8 years ago, IEEMA had conducted a detailed study by PWC on demand forecast and estimation of electrical equipment for the domestic demand arising out of 11th and 12th Plans till 2017. For past few months, IEEMA has been receiving queries from members on the need for updating this study from all corners IEEMA has sought feedback from the division members on the need for conducting similar study through an external consultant. Members in general welcomed the need of this study with the help of external consultant along with the select expert members from respective industry segments. Division Chairman has welcomed the proposal and recommended that IEEMA should engage consultant and get this study done.





### **Compliance to CEA Advisory on Domestic Procurement**

Central Electricity Authority (CEA) has issued an advisory on 19th May, 2016 to all Central and State Power sector utilities to follow domestic competitive bidding for domestically funded projects, and two part bidding system in national interest.

Shri Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines had met IEEMA members on 18th August 2016, where various issues were discussed. In light of implementing the CEA advisory, MoP has asked IEEMA to provide specific cases where CPSUs/SEBs are not adhering to the CEA advisory.

### **2nd TRAFOTECH Workshop on Life Management of Transformers**

IEEMA Power and Distribution Transformer Divisions jointly organised the 2nd TRAFOTECH Workshop on 22nd -23rd November at India Habitat Centre, New Delhi on Life Management of Transformers. The first TRAFOTECH Workshop was held in 2012 focussing best practices of Transport, Storage, Installations and Maintenance of Transformers. Encouraged with success of 2012 TRAFOTECH Workshop and continuing with user centric approach, IEEMA Power and Distribution Transformer Divisions jointly organised the 2nd TRAFOTECH Workshop 2016. The workshop was supported by Central Electricity Authority.

The seminar was inaugurated by Chief Guest, Mr. S.D.Dubey, Chairperson, Central Electricity Authority and Mr. Rajeev Sharma, Chairman, Power Finance Corporation was Guest of Honour. The number of delegates participated in the Workshop was approximately 434 numbers out of which more than 170 numbers were from utilities and govt. officials which has surpassed the earlier TRAFOTECH Workshop figures. The participants were across all section of stakeholders from Utilities, PSUs, Electricity Regulators, Testing and Research Institutes,

Consultants, Utility service providers, Manufacturers of Transformers and Policy makers etc.

**Mr. Manjit Singh Sethi**, Chairman IEEMA Power Transformer Division in his welcome address said that "IEEMA Transformer Division conducts this TRAFOTECH Conference every four years which discusses the state of the art of design latest development trend in materials and also the best practices in manufacturing of Transformers, in manufacturing testing diagnostics and other condition monitoring of Transformers. The transformer product life cycle does not end with their design, manufacturing, R&D and successful testing but infact, starts at site with erection testing and commissioning because that solves a very important part in the life cycle so users are more concerned about these aspects to manage the intended life of transformers

**Mr. S.K.Negi, MD Getco** during his concluding remarks said that TRAFOTECH is good brand name. The 2nd edition of TRAFOTECH mainly focused on the aspects of Site Management, Condition Monitoring, how good erection can be done and what are the good practices should be adopted. Mr. Negi also said that technology in transformer design has matured and we are good in that. He said that though we say that even failure rate is coming down and because of some issue people sometime takes impulsive decision like PGCIL took decision of using RIP bushings. He insisted that one should take a decision after going through the root cause analysis.

He also informed the delegates and authors that now the focus should move towards the performance of transformers and we should learn from our operational experience of transformers. For this feedback of the utilities is very much essential and important. He further informed that in many utilities the failure is almost 25% which is a big concern and therefore a full day workshop on



Distribution Transformers may be organized to discuss this subject in detail.

**Mr. Prabhu Narain Singh** in his closing remarks said that in our country we have seen loss levels varying from 0.35% to atleast 40%, we have the best practices. Committee A has standardized the specifications which is available in the public domain. He insisted that IEEMA may be involved in the discussion with the utilities during their review meetings.

**Mr. P. Ramachandran in his address** said that we are mainly looking at how to get maximum out of the life of transformers. During the discussions also we came to know that almost 1/3rd failure is because of bushings, tap changers, windings. Bushings changing to RIP bushing alone is not going to control the failure rate. We have to be vigilant in terms of maintenance, storage, operation.

#### Session's Best Paper Award:

The session's wise best paper award was provide to the following:

- More than 170 participation from various utilities & govt. officials
- Stakeholders involves Utilities, EPC Contracting Companies, Transformer Manufactures, Regulators, testing and measuring instruments, Research institutes, Consultants etc.

#### Achievements:

- 1) Successful TRAFOTECH Workshop 2016 with approximately more than 170 nos. of participants from Utility and Govt. officials.
- 2) Amendment in the delivery requirement of MSETCL Tender.
- 3) Formation of Committee under CEA which has revived the probabilities of implementation of the IEEMA Power Transformer Standardization Manual.

#### Representations done by IEEMA Power Transformer Division during April 2016 to March 2017:

- a) Representation was made to Chief

Session No	Paper Title	Organization	Author
1	Study Of Material Compatibility For Transformer Construction Materials With Synthetic Ester Oil	Crompton Greaves Ltd.	Dr. Ketan S. Shah
2	Monitoring of EHV/UHV Bushings by Capacitance & Tan delta measurement in frequency domain and DGA: Powergrid approach for HV bushing diagnosis	PGCIL	Sumit S Harichandanray
3	Retrofilling of Transformer with Ester based Oils: Study of Thermal effects on the winding	Cromton Greaves Ltd.	Sachin B Paramane
4	Moisture in Cellulosic Insulation and its Consequences	Weidmann Electrical Technologies	Stefan Jaufer
5	Development of Transformer Health Index(THI)	Tata Power Co. Ltd., Mumbai	Kapil Umak
6	Transformer Fault Analysis- A Multi disciplinary approach	Weidmann Electrical Technologies	Giuseppe Cappai

*The workshop ended with a very positive note that this is a unique platform created by IEEMA and no other such workshop on Transformers is being organised anywhere in the world.*

#### Workshop Highlights:

- More than 433 participants

Engineer (Procurement), MSETCL vide reference no. SEC/REP/TRF/UK/133 dated 25th April' 2016 on the unrealistic

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
Power Transformers	UNIT	2015-2016	2016-2017			
Power Transformer - Production	MVA	202036	174966	-13.4	202036	86.60
Power Transformer - Export	MVA	22587	16627	-26.4		
Power Transformer - Production	Nos	3025	2538	-16.1	3025	83.90
Power Transformer - Export	Nos	435	376	-13.6		

delivery requirement in Tender for Power Transformers

- b) Representation was made to Chairperson, CEA vide reference no. SEC/REP/TRF/UK/279 dated 4th July 2016 on implementation of the manual at the central level and also at the state level which would finally result in direct and indirect improvement in efficiency, reduced delivery period, facilitate interchangeability and easy evaluation of bids.
- c) Representation was made to Chairman, UPPTCL vide reference no. SEC/REP/TRF/UK/413 dated 4th October 2016 on the unrealistic delivery requirement in Tender for Power Transformers

## RENEWABLE ENERGY

- Number of members in the Committee: 60 Organizations.
- Committee Meetings:
  - 7th June 2016 , New Delhi
  - 23rd September 2016 , New Delhi
  - 15th December 2016 , New Delhi
- Number of Committee meetings: 3 (Three)  
Average Attendance:
- 12 (Twelve) organizations.

## Summary of Committee Meetings:

### Sector Overview:

Wind and solar power were the largest contributors among the renewable energy technologies in terms of capacity addition in FY 2016-17. A total of 5,413 megawatts of wind energy capacity was added, the highest-ever in India's history. Solar power capacity addition stood at 5,526 megawatts, also the highest ever in India.

The share of renewable energy capacity in India's total installed capacity increased from 14.2% at the end of FY2015-16 to 17.5% at the end of FY2016-17. India targets a 40% share of renewable energy technologies in the installed capacity mix by 2030.

This could very well be the first instance when India added more renewable energy capacity than thermal power capacity. However, this would certainly not be the last given the strong pipeline of wind and solar power projects waiting to be commissioned over the next few months.

A record 10 gigawatts of solar power capacity is expected to be added in calendar year 2017, and 6 gigawatts of wind energy capacity is expected to be added in FY2017-18

## Objectives and Key Discussion points:

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

**GST impact on Renewables:** IEEMA RE division members actively pursued the discussion on GST impact on Renewables in various forums. Members also raised concern over the possible cost escalation of power projects and subsequent higher tariffs burden on consumers once the Goods and Service Tax (GST) is implemented. Currently the sector enjoys almost zero tax structure in most of the states with VAT reimbursement by the state governments and other tax relaxation on solar power plants

The industry had been expecting solar cells and modules to find a place in the exemption list of essential items where GST would be waived off. However, this seems increasingly unlikely as the Government has said that the GST would help provide a level playing field to local manufacturing. Solar equipment would fall either under the standard list or merit list. In either scenario, the overall project cost is likely to increase and pare most of the price reduction gains made over the last 1-2 years

**Reliability and Quality of Solar Plant Equipment's:** In solar energy, safety and performance go hand-in-hand. The challenges are quite evident in terms of estimation of the yield of a particular solar power plant. A critical factor is the right design of the solar plant and right selection of components within the plant. The quality and performance of PV modules, inverter and accessories efficiency among others will decide the overall efficiency of the plant.

As demand for PV equipment has increased, there is an increased need for an effective

testing and certification solution. With an expected lifespan of 20-25 years, it is difficult to guarantee the safety and performance of products and components used in renewable energy resources. Testing for reliability and durability and certification program with strong surveillance mechanisms is the only way to ensure bankability in terms of safety, quality and performance of these products. Creating awareness on the dangers of various applications of solar and wind energy and solutions to mitigate the same are crucial steps towards ensuring complete success of renewable energy projects. Handling of hazardous equipment and material can have catastrophic effects if safety and quality standards are not followed.

## Representations made:

1. **Impact of GST on Solar** – IEEMA made a representation to Ministry of Finance and Ministry of New and Renewable Energy on probable impact of GST on Solar Industry. It was earlier estimated and seen that the impact is of order of 12 to 18 percent.

Considering IEEMA request and representation from various other stakeholders, the Finance Ministry has kept GST rates for Solar Industry at 5 Percent. It was a much needed relief to the industry.

2. **Minimum Quality standards** for Solar plant Equipment- Taken into account rising Substandard imports from countries like China and Malaysia and the impact on the Indian Markets. IEEMA have made a repeated representation to Ministry of New and Renewable Energy to specify Minimum Quality Standards for Solar Plant Equipment's.

In this regard, MNRE has also conducted a stakeholders meeting, where the issue of Minimum Quality Standards was discussed. Recently MNRE has also issued a draft Quality Control order in this regard which will be implemented shortly.



This the major step to ensure Quality and Reliability of the plant equipment's.

## ROTATING MACHINES

- Industry Size : INR 6900 Crs
- Exports : INR 1561 Crs (Source: DGCI&S)
- Imports : INR 1802 Crs (Source: DGCI&S)
- Number of Members in the Division:  
52 Members
- Division Meetings:  
26.04.2016 at IEEMA, Mumbai  
22.06.2016 at IEEMA, Mumbai  
16.09.2016 at IEEMA, New Delhi  
24.11.2016 at IEEMA, New Delhi  
09.02.2017 at IEEMA, Mumbai
- Number of Division meetings:  
05 (Four) excluding 5 ELROMA Meeting
- Average Attendance:  
16 (Sixteen) organizations.

### Summary of Division meetings:

#### State of Industry:

Rotating machines sector after a gloomy period of over 2 years, has shown very moderate growth of 1% in volume terms. LT Motors have witnessed growth of 7% due to pick up in demand from Water, sugar, petro-chemical, cement & steel sectors with FHP motors stagnant. HT Motors however continued to decline further by 12% due to low off-take in power generation segment; shifting to renewable energy.

FHP motors also faced stagnancy due to high rise in imports. Although, overall imports of Motors have reduced by about 10%; it still poses high threat to domestic industry as its share in domestic market is still above 25%. Although, Demand for domestic production of AC Generators has increased by moderate 3%; increase in imports by about 50% is a

serious concern.

### Objectives/ Key discussion points & achievements

#### IE5 Motor Prototype Development-

IEEMA along with Deptt. of Commerce, Principal Scientific Advisor to the Prime Minister Office, Deptt. of Heavy Industries and Deptt. of Industrial Policy and Promotion are working towards developing Highest Energy Efficient Motor in India called as AIMERS/IE5 motor to have a leading edge in terms of Technology and increased Energy Efficiency.

The background behind developing the technology is the need for Indian Exports moving up in the value chain and the need for cohesive efforts of eminent Research institutes & the industry to make India a leader in terms of technology and market in a few identified product sectors Ministry of Commerce is facilitating the process by linking the industry & the R&D institutes to innovate and deliver a path breaking Electric Motor that is better & technically superior to the best available electric motor currently available in the Global market. Project shall have a time frame of 15/18 months for completion and commercialization of the intended product. The proposal aims to develop a better than IE4 class 5HP induction motors While developing the prototype, care will be taken to the extent possible, to employ manufacturing processes/ equipment available in the domestic Industry. ERDA, Vadodara will act as the prototype developing centre with technical contributions from BARC and other allied Organizations.

#### IS 12615 Mandatory for 3 Phase Squirrel Cage Induction Motors

IEEMA is a strong advocate for implementation of standards in the national interest. DIPP has issued a Quality Control Order bringing IS 12615 as a mandatory standard which will not only result in huge

electricity savings & enhancing efficiency levels. The projected cost savings to the nation with this Mandatory Standard is close to INR 5000 Crores.

As per the Gazette, minimum IE2 and above class motors can only be manufactured and Sold after October 1, 2017 IEEMA has supported the move and is working closely with DIPP and BIS for smooth implementation of the order.

**ELROMA 2017-** Rotating Machines Division is organizing the 9th edition of ELROMA Conference at Hotel Lalit, Mumbai on 14-15th September 2017. The Major Sessions covered are Simulation, New Technology, Materials, Electronics and Case Studies. Sub topics includes:

- Intelligent/ Smart/ NexGen Electrical Rotating Machines
- Rotating machines for Renewable Energy /Transportation propulsion systems
- Advanced Material technologies
- Green manufacturing technology
- Simulation and design analysis
- Application specific motor & drive system for energy efficiency

- Challenges of premium efficiency machines
- Heat extraction technologies
- Diagnostic, Condition monitoring and Reliability
- Testing and certification

Our Call for papers has received excellent response and more than 95 papers has been received. The Conference has been endorsed by International Electro technical Commission and supported by Manufacturers, Consultants, Government organizations, testing labs etc.

#### Representations made:

- Representation submitted to Department of Industrial Policy and Promotion and Department of Commerce regarding Mandatory IS 12615 for IE 2 motors in India.

In response to subsequent discussions, the Ministry has come out with the Gazette Quality Control order for Energy Efficient Motors which mandates IS 12615 wef 1st October 2017. IEEMA is working closely with DIPP and BIS to ease out implementation issues

#### IEEMA Statistics - Production Trend

NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
ELECTRIC MOTORS	UNIT	2015-2016	2016-2017			
FHP Motors	000'KW	1148	1148	0.0	1150	99.83
Squirrel Cage Motors	000'KW	9351	10000	6.9	10399	96.16
Slipring Motors	000'KW	296	306	3.4	690	44.35
Flame Proof Motors	000'KW	466	516	10.7	491	105.09
D. C. Motors	000'KW	392	410	4.6	618	66.34
A. C. Generator	000'KVA	11261	11544	2.5	11261	102.51
HT Squirrel Cage Motors	000'KW	3397	2751	-19.0	4181	65.80
HT Slipring Motors	000'KW	295	474	60.7	910	52.09

## SME DIVISION

### ➤ Number of Members in the Division:

There is no subscription for membership to this division.

The total number of member companies subscribing to the division 400.

### ➤ Division Meetings:

meetings have been held during the F.Y.2015-16

1. 29 April 2016 - IEEMA, Mumbai
2. 29 June 2016 - IEEMA, Mumbai
3. 29 July 2016 - IEEMA, Mumbai
4. 16 Sept 2016 - IEEMA, Delhi
5. 21 Oct 2016 - IEEMA, Mumbai
6. 13 Jan 2017 - IEEMA, Mumbai
7. 10 Mar 2017- IEEMA, Mumbai

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

- Inputs were sought from the entire membership and each input deliberated in detail on its impact on the overall segment. These were thereafter represented with the Ministry of MSME and also presented in the pre-budget memorandum.
- Updation of List of IEEMA SME Members (as per the MSME /SSI Registration) is under process.
- Committee have been formed for resolving the issues on Delayed Payment from PSUs, Utilities and OEMs. SC-1 – Utilities – Mr. Vikas Patharkar, Mr. Vinod Bhatia, Mr. Anil Saboo. SC-2 – OEMs / EPC – Mr. Ashutosh Jatia, Mr. H.P Parikh, Mr. C.M. Rane, Mr Rajesh S Agarwal

### Divisional Events / Conferences:

A meeting was held on Monday, 25th April 2016 at IEEMA, Mumbai Office to review and discuss plan for the SME segment for the upcoming year. The meeting was attended by Mr. Babu Babel, President, IEEMA, Mr. Sunil Misra, DG, IEEMA, Cdr. Parijat Sinha, Head Western Region and Chairman, SME Division. It was decided to conduct one day Workshop / Seminar / Conference for the benefit of SME members would greatly impact overall brand building. Specific areas identified for the workshop are Finance, Marketing, Policies and Export orientation. It was also decided to conduct the workshop in four Regions. Workshops were conducted in two regions, western and Northern respectively.

### SME Workshop on the theme "Sustainable Growth Through SME emPOWERment" were held in two regions

#### First SME Workshop held on 6th August 2016 at Hotel Ramada, Navi Mumbai

Workshop was well attended by IEEMA members and non-members from MSME Sector. The speakers were good and very well interacted with delegates.

#### Second SME Workshop held on 26th September 2016 at "Tamarind Hall", India Habitat Centre, New Delhi.

**Shri. Surendra Nath Tripathi, IAS,** Additional Secretary & Development Commissioner Ministry of Micro, Small &



IEEMA SME Workshop at New Delhi



Medium Enterprises delivered the inaugural address. Shri Tripathi has shared the schemes / financial assistance / subsidies available to MSMEs for technical upgradation, quality improvement, improvement in the infrastructure, etc. He also informed the latest changes made in the policies like Public Procurement Policies.

Mr. Anil Bhardwaj, Secretary General, Federation of Indian Micro and Small & Medium Enterprises explained the need for innovation and benchmarking, the need for manufacturing the components and avoid the imports of components. Mr. C.V. Subrahmanyam, Principal Counsellor, Confederation of Indian Industry spoke about the factors affecting the industry and the need for sectorial change. Speakers from Social Media, Financial Institution, Technical & Skill development Institution, Association, etc. also were shared the means ways to improve the productivity and business of the MSMEs.

About 50 delegates were attended the workshop from SME industry including member and non-member organizations.

### **Representation:**

Representation to Ministry of MSME - Problems faced by Electrical Equipment MSME in dealing with Power Utilities/DISCOMs on Inputs collected from members on difficulties faced by MSME while tendering with PGCIL NTPC and railways.

### **Knowledge Sharing Presentations / Interactions**

Presentation on "Power Quality" by Mr. Manas Kundu, International Copper Association India Mr. Kundu made a presentation on Power Quality with number of case studies and it was followed by question & answer session. Chairman and Members also requested Mr. Kundu to give a presentation of Copper Quality. Mr. Kundu agreed to give a presentation on Motors in one of the forthcoming meetings.

### **Presentation by Mr. Vishwas Prabhutendulkar, Regional Director, West, Project Management Associates (PMA).**

Mr. Vishwas Prabhutendulkar made a presentation on Project Management. Mr. Prabhutendulkar also informed about their certification programme in different level (A, B, C, D) and requested IEEMA Secretariat to take a membership of PMA and IEEMA members may avail the benefit thereof. Chairman requested Mr. Prabhutendulkar to send a separate ppt. to present at EC meeting.

### **Presentation by SMERA on Credit Rating for MSMEs**

A presentation on Credit Rating for SMEs was made by Mr. Mohit Jain and Mr. Karan Mehrishi, SMERA Rating Ltd. They have also interacted with SME members

### **Dissemination of information to SME Division members**

#### **Udyog Aadhar Memorandum (UAM)**

Members enquired that whether the EM-II also replaced by Udyog Aadhar. The clarification in this regard were given by referring <http://msme.gov.in/UA/FAQ.aspx>

Notification dated 18-09-2015, filing of EM-I/II by States/UTs should be discouraged and instead all efforts be made to popularize the filing of UAM on the portal created by Ministry of MSME i.e. <http://udyogaadhaar.gov.in>

**Representation on Study of Inverted Duty Structure (IDS) of Cable Terminals and Connectors submitted by IEEMA to Mr. P K Upadhyay, Adviser, Tariff Commission.**

Gist of IEEMA Views and recommendations incorporated in National Capital Goods Policy

Circular from Directorate General of Training, Ministry of Skill Development & Entrepreneurship (MSDE) – Enlisting

of Skill Training under Corporate Social Responsibility (CSR) in the Company Act 2013

**Performance & Credit Rating Scheme** for Micro & Small Enterprises (MSEs). NSIC is the nodal agency for implementing the scheme of performance and credit rating for micro and small enterprises through its various branches/offices located in the country.

**Contact Point is Micro and Small Enterprise Facilitation Council** (MSFC) for Delayed Payments to Micro and Small Enterprises under Micro, Small and Medium Enterprise Development (MSMED) Act, 2006.

## Key Outcomes

### Review on Meeting with Shri S.N. Tripathy, Additional Secretary & DC, MSME

IEEMA SME division made a presentation to Shri S.N. Tripathy, Additional Secretary & DC, MSME.

Shri Tripathi was candid in his views that he was aware of the most of the concerned areas that were presented by the Association and the Ministry was actively driving the issues across other Ministries (Ministry of Commerce & Industry, Ministry of Power, and Ministry of Heavy Industries). He asked for a copy of the presentation left back for being studied by his team. With respect to the testing facilities, he informed that ministry will make fund provision for upgrading the testing facilities for which a survey on the problem faced across the segments to be conducted.

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

- Launching Lean Manufacturing Competitive Scheme for SME from IEEMA Platform
- Mr. J.G. Kulkarni briefed about discussions with QCI, TUV, MSME regarding Lean manufacturing cluster. He also added that he had discussions with large scale

companies such as ABB and Siemens, they have expressed their willingness to form clusters Mr. Kulkarni suggested DG, IEEMA to discuss with QCI Chairman and further action in this regard can be pursued thereafter.

- A draft Memorandum of Understanding (MOU) has been prepared by IEEMA and sent it to National Accreditation Board for Education and Training (NABET), it is with them and they have to come up with their decision and action plan.
- Increase engagement with Ministry of MSME with the aim of driving policy.
- Increase number of active participation in the SME Division meeting.
- Representation to RBI / concerned authorities on financial challenges and problems faced by SMEs while doing business.

## MV & HV Switchgears

- Industry Size: INR4,961 Crs
- Imports: INR2,120 crs grown by 50% compared to last year
- Exports: INR 2,000 crs grown by 6% only compared with last year.
- Number of members in the division: 67 organisations
- Division Meetings :  
2nd May 2016  
1st July 2016  
17th October 2016  
16th January 2017
- Number of division meetings: 4 nos.
- Average Attendance:  
10 (Ten) organisations
- Average number of companies per meeting: 8 nos.
- Technical Committee Meetings: On webinar or mails as and when required

## Summary of division meetings: Objectives/Key discussion points and 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.

There is a de-growth of about 10% in 11 KV breakers especially in outdoor type whereas 33 KV breakers witnessed growth of 45% due to 100% growth in Indoor type. Demand for HV breakers (66 to 245 KV) also grown by about 20% whereas EHV breakers demand has increased moderately.

The Division is committed to consolidating the support from existing members, further industry interest, 'make in India' programme, understanding and learning new technologies. Accordingly, division decided to focus on following key topics. Summary of the key discussion points, achievements and way forward are presented below

### Level Playing field for HV GIS : Threat of Imports from China & Korea

Representation and meeting with Tantransco on specification of 550kV GIS:

HV GIS Industry is underutilized in capacity due to large scale imports from Chinese & Korean Manufacturers Accordingly Division has been engaging vigorously with Public Policy Cell and below officials since last two years to vociferously appeal for remedy through domestic procurement clause.

- Meeting with CEA
- Meeting with DHI under chairmanship of Mr. R.K.Singh, JS, DHI on import of GIS from China and Korea
- Suggestion to DHI on Domestic

### Procurement Clause in National Capital Goods Policy Formulation

All these appeals have been favorably heard by the Policy Makers Three to four times representation is raised to Tantransco for discussing the reason of inviting tenders of 550 KV GIS for 400 KV networks, which precludes domestic Manufacturers from bidding. Two meetings are conducted with MD Tantransco. Meeting was held with MDtantransco, Dr. Rajeev Ranjan, Additional Chief Secretary to Government to share the inputs for selecting 500 KV equipment for 400 KV network. Issues were highlighted about interactions being held with Tantransco on large scale import of high voltage GIS equipment from China and Korea. Tantransco agreed to cooperate with industry in establishing the technical rationale for such a specification. The matter is still in discussions on priority.

### Utilities terms and conditions:

A comprehensive matrix was devised listing all the technical and commercial issues with various utilities in the country across all divisions those which are not encouraging to the health of Industry. Representations were sent to all concerned Utilities highlighting the inputs received from all Industry divisions for amendment in contract terms and conditions. Meetings have been held with WBSDDL, KPTCL, PSPCL and PSTCL. Members attended the meetings in good numbers and discussions were quite constructive. The utilities accepted to consider few conditions and for some to revert after internal discussions. Meetings with other utilities are in progress to be scheduled in 2017-18

### Gaps in testing facilities at CPRI:

The division identified the testing gaps at CPRI. Accordingly below meetings were held:

- Joint meeting with CPRI, Ministry of Power, Ministry of Commerce to ramp up facilities in CPRI
- Two meetings have been conducted with CPRI officials and the gaps have been



formally represented. CPRI has taken the request on board and agreed to consult Industry during their ramp up phase

### Technology Innovations

Chairman took an initiative to discuss and address technology innovations in each division meeting. Starting with, Mr. K.Subramaniyan from Powergear, was invited to address division members on nano technology.

In the next meeting Mr. Shrikrishna Gupta, BARC was invited to address division members There is a lot of work being done in the field of vacuum interrupter technology and China and Germany are leading the research in this field. Looking to the success of seminars like SWICON Mr. Gupta being the President of IVS (Indian Vacuum Society) was keen that IEEMA should come forward to host the symposium (ISDEIV ) in India in 2020 so that new wave of research in this field could be triggered in India as well. He wanted to have good connection between R & D and Industry as organisation are constantly innovating.

Division convened meeting at BARC. All technology innovations were seen in different areas. Members to approach BARC for any engagement if found useful. Organisations R&D informed that they have already started a dialogue with BARC post there visit. Representatives of organisations who could not visit BARC last, evinced interest in visiting the same.

### Production Statistics

Division analyses the production figures of MV and HV Switchgears along with Export/ Import figures with HS codes for these products. Out of 67 member manufacturing companies, about 30 organisations report the production figures of MV and HV switchgear along with GIS, representing > 80% of Industry Size. The division has worked and devised a format for reporting the production data of MV and HV GIS along with RMUs and substation packages.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
<b>MV &amp; HV SWITCHGEAR</b>	UNIT	2015-2016	2016-2017			
Isolating Switches	Nos	22614	26728	18.19	37175	71.90
MV Outdoor Circuit Breakers [Up to 33 kV]	Nos	29539	26549	-10.12	29539	89.88
MV Indoor Circuit Breakers [Up to 33 kV]	Nos	35887	38629	7.64	35887	107.64
HV Outdoor Circuit Breakers [Above and including 66 kV]	Nos	6722	7516	11.81	7097	105.90
MV Custom Built Products						
Up to 15.00 kV	INR Lacs	53942	49538	-8.16	81764	60.59
Above 15.00 kV	INR Lacs	24013	29362	22.28	24013	122.28

## LV SWITCHGEAR DIVISION

- LV Switchgear Industry size for Apr 2016-Mar2017: INR14,560 Crs .
- Imports: INR 8,555 Crs including LV Custom built products) Source: DGCI&S.
- Exports: INR 6,136 Crs including LV Custom built products) Source: DGCI&S

Count of members in the division: 98 organisations (including LV Switchgear manufacturers, manufacturers of accessories & components, EPC Contractors & others)

- Division meetings during the year:  
Number of division meetings held till March 2017: 4 (four)
- Average Attendance:  
12 (Twelve) organisations; webinar is actively encouraged to maximise participation
- Technical Committee meetings held till March 2017: 4 (All through webinar)

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

#### Trend analysis of Production data/statistics and discussions on EXIM data

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.

Low voltage switchgear is one of the well-established industries in India. The Industry covers Low Voltage switchgear products such as Air Circuit Breakers, Moulded Case Circuit Breakers, Switch fuse and Fuse switch

units, Changeover Switches H.R.C fuses, Motor Protection Circuit Breakers Thermal overload relays and motor protection relays, Power Contactors, Starters, Miniature Circuit Breakers, Residual current devices, Distribution boards and Factory- built assemblies, modular switches and sockets, etc. The industry caters to end-user segments such as all manufacturing verticals, buildings - residential and commercial, infrastructure entities, utilities, agriculture and also a wide variety of OEMs.

Weight of LV switchgear industry within the major electrical equipment industry's Growth Index is 12.9%. In value terms, the L.V. switchgear industry grew by 13.1% over last year. Therein the power distribution products growth was higher than that of motor control products.

In 2016-17, imports of L.V. Switchgear products (including LV Custom built products) showed a decrease of 7.5% as compared to 2015-16 while export increased by about 6.2%.

The division worked on the following topics during FY16-17.

#### Participation in BIS Electrotechnical Committee meetings as well as IEC

Participation of division in BIS ETD Committees (ETD 07 Committee on LV Switchgear, ETD 20, Committee on Electrical Installations, ETD 50 Committee on LVDC)

Division members worked proactively with BIS committees for formulation and up-gradation of standards, aligning the Indian standards with IEC standards for LV switchgear and Controlgear products etc. 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 LV Switchgear division. The discussions held in TC are shared by the convenor in the division meetings for consensus among division

members which represents the low voltage switchgear Industry.

The Division has been regularly participating in all ETD Committees of BIS. Under ETD07 Committee the discussions were majorly on publishing of IEC 61439 as IS/IEC 61439. Members made active participation where it was decided that BIS will seek inputs from users Division helped BIS in collating and providing the list of about 70 users to BIS.

The Division felt the importance of Installation rules as the same was discussed and raised in the IEC conference on Safe Protective devices. It was placed that NEC 2011 rules have been framed by BIS under ETD 20 committee of BIS. Members deliberated that Installation Rules should be framed by division and submitted to Utilities. Division members contributed by participating actively in ETD 20 Committee (sectional committee on Electrical Installations). Members volunteered to contribute for amendment of NEC (National Electric code) 2011 by having representatives in different groups constituted to work on different sections. Members scheduled weekly meetings to update their sections.

ET50 is a newly constituted committee in BIS on LVDC. A draft standard worked out jointly with MOP and CEA mentioned/proposes the voltage range of 48V DC. Division raised its voice with IEEMA as a body for 24V DC instead of 48V DC on safety consideration under wet conditions. 48V DC is mainly used for standalone system and not for grid connected systems.

#### **International Conference on "Safe Protective Devices for Safe Installations"**

Members IEC 23 E working groups (WG1 and WG2) were in India for their meeting which was hosted by IEEMA LV Switchgear division from 14th to 18th November 2016. Leveraging the presence of experts from Germany, China, Netherlands, Italy, France Austria etc, IEEMA organised a conference on "Safe protective devices for Safe installation" on

18th November 2016 at New Delhi, endorsed by IEC and supported by ICA(International Copper Association, India)

Mr. Amitabha Sarkar, Technical Convenor to the Conference delivered the welcome address along with the objective of the Conference. Mr. Sarkar mentioned that IEC SC 23E WG1 & WG2 meetings are being held for the first time in India and IEEMA agreed to host the event. IEC working group meetings are held in countries around the world & experts from many organisations from many countries come together to discuss & formulate new or amended standards. 25 experts have come for WG1 & WG2 meetings, and about 15 young Indian engineers got the opportunity to attend & witness the deliberations. Taking advantage of the presence of so many overseas experts, IEEMA LV switchgear division agreed to arrange a one day conference "Safe Protective Devices for Safe Installations" on 18th Nov. in New Delhi.

Mr. Jean Francois, Convenor to IEC SC 23E/ WG2 in his special address mentioned that working group meetings were exciting during last four days and Indian participants who participated as observers shared many valuable inputs those were important in the Indian context. He emphasized that this conference will surely add value in sharing knowledge both ways.

Mr. Sanjeev Ranjan, Managing Director, International Copper Association, India in his special address highlighted the interest and drive of ICA to promote safety in all aspects. He mentioned that ICA is working jointly with BIS and CEA to spread the message of safety through various programmes arranged on National Electric code. Participating in various CEA's meetings for revising CEA 2010 - "Measures relating to Safety and Electric supply".

The conference was inaugurated by Mr. S.D.Dubey, Chairperson CEA. In his inaugural address he mentioned how safety is important



in every aspect of life. He observed that safety is being ignored and CEA has always been pursuing the safety through various platforms. The safety measures which were first formulated in 2010 are now being revised in 2016 with first amendment in 2015.

The inaugural session ended with a vote of thanks by Mr. Rajkumar Panicker, Vice Chairman LV Switchgear Division. He highlighted the importance of such conferences and the benefits to the industry and briefed on the activities of IEEMA LV Switchgear industry.

The sessions started with presentations from Indian speakers Mr. Upendra Kumar & Mr. Gautom Roy from CEA. They presented the detail on the amendments made in the CEA regulations 2010 "Measures relating to Safety and Electric Supply Regulations, 2010 which were very informative.

The other presentation was made by Mr. Amitabha Sarkar on BIS activities under ET07 (Low Voltage Switchgear and Controlgear Sectional Committee) and ET20 (Electrical Installations Sectional Committee) where he briefed that ET07 is a mirror committee of IEC

TC 121, SC 121A, 121B & 23E and India is "P" member of these IEC TCs/SCs & have Indian representation. He highlighted the present status of Indian standards under ET07 on MCB, RCD and SPD. He stated that ET20 is a also mirror committee of IEC TC 64 & TC 18 and this committee has recently become "P" member of TC 64. He shared the Status of Codes and Indian Standards on Electrical Safety. He indicated that Electrical safety is a very serious issue in India which leads to Loss of life and property. He highlighted that all these Indian Regulation, Codes and Standards address the above issues. The sessions were followed by presentations from eight experts from IEC working group.

More than 80 delegates from CEA, Government bodies, industries attended the whole day conference. The Conference concluded with a good question and answer session amongst speakers and participants

### **Production Statistics**

There are 98 IEEMA member companies enrolled on LV switchgear division wherein about 50 are manufacturers of LV switchgear products. Members actively participate in meetings and detailed discussions are held on Industry size statistics with analysis of 'Moving Annual Average (MAT) trends for last three years for each product group.

The Division regularly analyse the production trends for major LV Switchgear products collected and compiled by IEEMA.

The Division monitors and discusses Export/Import figures of HS codes for these products.

Out of 50 member manufacturing companies, 26 report their production quantities. The division has worked and devised a format for reporting the production data of Distribution Boards that include SPN DBs, TPN DBs, Special purpose DBs and MCB enclosures. The Division has also finalized a reporting template for wiring accessories (modular switches and sockets) and change-over switches.



*International Conference on Safe Protective Devices for Safe Installations at New Delhi*

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT		Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
LV SWITCHGEARS	UNIT	2015-2016	2016-2017			
Relays & Timers	000'Nos	1183	1575	33.1	1197	131.58
Contactors	000'Nos	8476	9743	14.9	8527	114.26
Motor Starters	000'Nos	1634	1986	21.5	1909	104.03
Power Switches	000'Nos	24	22	-8.3	88	25.00
Switch Fuse & Fuse Switch Units	000'Nos	602	704	16.9	948	74.26
LT Circuit Breakers						
a) Miniature Ckt.Br.	000'Poles	146165	159917	9.4	146165	116.75
b) MCCB. (Single & Multi Pole)	Nos	1822680	2598164	42.5	1822680	142.55
c) A.C.B.	Nos	110293	138803	25.8	110293	125.86
Relay/Control Panel, MCC & Switchboards	INRLakhs	200830	182733	-9.0	265267	68.89
HRC Fuses	000'Nos	11405	10843	-4.9	13225	81.99
Overload Relays	000'Nos	2956	3400	15.0	3579	95.00

## SMART GRID

- Number of Members in Division: 40
- Divisional Meeting:
  - 10th May 2016, New Delhi
  - 27th July 2016, New Delhi
  - 20th September 2016, New Delhi
  - 17th October 2016, New Delhi
  - 17th February 2017, New Delhi
- Number of Divisional meetings: 5 (Five)
- Average Attendance:
  - 13 (thirteen) organisations

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

- The Division formed a technical committee to work on technical aspect of the Smart Grid
- The division initiated the activity to prepare a white paper on IEEMA's offering for Smart Grid ecosystem.
- The Division actively participated in Meeting on " Smart Hub" in Ministry of Power, The meeting was chaired by JS(D), Mr. A.K Verma
- The Division was actively involved in organising the two days conference " Intelligent Management of Future Grid" during INTELCT 2017. The conference was very successful with more than 350 participants from more than 130 organisations.
- The Division has invited key system integrators to discuss the challenges being faces in Smart Grid pilot projects.



MoU signing between IEEMA and NSGM

- During the division meeting we have invited some experts like Mr. Sanjay Banga (TPDDL), Mr. Pankaj Batra (CEA) and representative from IEC to share their experience.

#### Interactive Session with Stakeholders:

On 4th November 2016 an Interactive session was organised with key stake holders of Smart Grid ecosystem at Hotel Pride Aerocity, Delhi. The theme of the session was 'Together towards a brighter tomorrow'.

The objective of the session was to bring all key stake holders at single platform to create a conducive environment which help nourish the smart grid in India.

The session saw a good participation from Policy Makers, Regulators, Utility officials, Testing labs, System Integrators, IT companies and equipment manufacturers

The interactive session provided a platform to all the stakeholders of smart grid ecosystem to interact with each other, and raise their concern to the authorities and discuss the future possibilities.

IEEMA also signed a MOU with NSGM-PMU to help and support them in training and development of utility officials involved in development of Smart Grid, R&D activities, Joint Studies and surveys etc.

## SURGE ARRESTER

- Market Size: INR 118crs
- Exports: INR 43 crs (estimated)
- Imports: INR 31 crs (estimated, including Project Imports)
- Number of Members in the Division: 26 organizations (including Surge Arrester manufacturers of accessories & component, EPC Contractors and others)
- Division Meetings:
  - 29th July 2016
  - 15th December 2016
  - 17th March 2017
- Number of Division meetings: 03 (Three)
- Average Attendance:
  - 04 (Four) organizations

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

#### Surgeprotech:2016 2nd International Conference cum Tutorials on Surge Arresters

Division organized 2nd International Conference cum Tutorials on Surge Arresters on 28th & 29th April 2016, New Delhi jointly with CPRI and POWERGRID. The conference was planned along with tutorials to take the benefit of the presence of international/national experts invited for the event. The Conference was first held in November 2012 and this platform for Surge Arresters is unique in its own kind. International Conference on Surge Arresters is being held only in India and nowhere across the globe. The theme for SURGEPROTECH 2016 was Arresters for FAIL SAFE PROTECTION.

This conference was attended by about 200 delegates from almost all sections of stakeholder groups such as Utilities, testing and Research Institutes, Consultants,



Manufacturers, EPC contractors, policy makers etc.

Tutorials were held on 28th April 2016 with sessions conducted by Prof. Dr. Volker Hrsichsen, Chairman IEC TC 37, Mr. Johnnerfelt Bengt, TE Connectivity, Dr. Vasudeva, CPRI and Mr. O. Balagangadhar from Oblum Industries.

The Conference held on 29th April was inaugurated by Chief Guest Mr. R.P. Sasmal, Director Operations, POWERGRID, Mr. S.K.Mahapatra, Chief Engineer, CEA was the Guest of honour. The key note address was delivered by Prof. Dr. Volker Hrsichsen, Chairman IEC TC 37.

The conference had three technical sessions and 16 technical papers were presented.

#### The sessions were:

- Development in Surge Arrester technology
- Field experience case studies
- Monitoring and field testing

Two papers were given the best paper and best presenter award

The Conference ended with a very positive

note that this is a unique platform created by IEEMA and no other such Conference on Surge Arresters is being organised anywhere in the world.

#### Gaps in CPRI Testing:

During the year division discussed this activity. The revised IEC -60099-4, June 2014 was released. A consolidated list of gaps identified by the Division with respect to Testing as per IS, IEC and customer specific needs is being discussed with CPRI from long time. A paper was also presented by Dr. Vasudeva, head High voltage laboratory during International Conference highlighting the tests to be conducted as per ANSI/IEC and the facilities available at CPRI. CPRI is upgrading its test facilities as per new IEC and they have ordered the equipment. Testing facilities as per revised IEC will be in place after the equipment will be installed

#### BIS Electrotechnical Committee ET 30

Members actively participate in BIS Electro technical Committee meetings (ET 30). The discussions are on Indian Standards along with IEC 60099-4 released in 2014 and other IECs. The manual on "Guidelines for selection, applications and installation of surge arresters" is being drafted in BIS in



Inaugural session of SURGEPROTECH 2016



consultation with committee members where IEEMA members are part of the committee. Subcommittees have been constituted under BIS ET30 committee to draft different chapters This exercise was previously decided to be done within IEEMA is now taken up by BIS ET30 Committee.

#### Utilities terms and conditions:

A comprehensive matrix was devised listing all the technical and commercial issues with various utilities in the country across all divisions those which are not encouraging to the health of Industry. Representations were sent to all concerned Utilities highlighting the inputs received from all Industry divisions for amendment in contract terms and conditions. Meetings have been held with WBSEDCL, KPTCL, PSPCL and PSTCL. Members attended the meetings in good numbers and discussions were quite constructive. The utilities accepted to consider few conditions and for some to revert after internal discussions. Meetings with other utilities are in progress to be scheduled in 2017-18

#### Sales Statistics

IEEMA compiles statistics for Surge Arrester Division on monthly basis based on the data received from its members Six members report the sales figures. There are 26 member organisations enrolled in the division but only 4 members attend the meeting though there are 8 manufacturers The scope to increase the membership of this division is very limited.

The Indian Industry is facing problem of overcapacity for last few years The number of players in unorganized sector has increased substantially over the time especially in the distribution sector where the technology has stabilized.

The reduction of product prices due to large imports from China is a cause of concern for Indian Industry. Members have represented to PSUs like PGCIL, NTPC to block dumping of Electrical products into Indian Market by giving boost to the Indian manufacturers and ensure that the capacities are fully utilized. Surge Arresters are also imported and exported on chapter 85354010. Overall polymeric + porcelain sales decreased by 4.2% (in nos).

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	FY 15-16	FY 16-17	% Change	FY 15-16	FY 16-17	% Change
Surge Arresters	Porcelain			Polymer		
Domestic						
LT & Distribution - Upto 30 kV	478587	368716	-23.0	87812	128241	46.0
Upto 30KV	48465	38337	-20.9	37268	59995	61.0
31KV to 216 kV	17944	20123	12.1	12983	12081	-6.9
245 kV to 390 kV	1255	881	-29.8	599	763	27.4
Above 390 kV	0	77		139	106	
Export						
LT & Distribution - Upto 30 kV	38762	4117	-89.4	12698	47027	270.3
Upto 30KV	6189	2622	-57.6	102624	126879	23.6
31KV to 216 kV	7221	7720	6.9	12938	11270	-12.9
245 kV to 390 kV	154	121	-21.4	0	3	
Above 390 kV	0	0		0	0	
ToTal	598577	442714	-26.0	267061	386365	44.7

## T&D PROJECTS

- TLT Industry Size: INR 7,000 Crs
- Exports : INR 1,364 Crs
- Imports: INR 138 Crs
- Number of Members in the Division: 145 organizations (including EPC Contractors and others)
- Division Meetings:
  - 4th May 2016, Delhi
  - 8th July 2016, Kolkata
  - 9th September 2016, Delhi
  - 17th November 2016, Kolkata
  - 9th February 2017, Delhi
- Number of Division meetings: 05 (Five)
- Average Attendance: 17 (seventeen) organizations

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

#### 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. Despite transmission being a critical component in our power value chain, the sector has become a critical cog.

After considerate deliberations spread over number of meetings, 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. The Division has decided to carry out this study, with an intent to take up the matter at the highest level in the Government, with the support of Ministry of Power (MoP).

A committee was constituted for carrying out this activity. 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 will help in articulating all the bottleneck areas with their root causes that hold up execution of Transmission Line and Substation projects in the country.

Thereafter, E&Y shall 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.

#### Impact of GST on EPC Projects

Members raised a serious concern that due to implementation of GST, the contracts will experience an implication to the tune of 8-10%. It was informed that few utilities are mentioning a clause related to Tax in their tenders which may have some adverse effects after implementation of GST.

Division submitted representation to all the State utilities for inclusion of Powergrid's clause in their tenders.

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

In past, members felt a need to devise 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.

## Standing Committee of Experts to investigate the failure of Transmission Lines

CEA formed a standing Committee of Experts to investigate the failure of Transmission Lines and invited IEEMA for the same.

First meeting of the standing committee was held on 2nd December 2016 at CEA.



10th T&D Industry Conclave 2016, New Delhi

Members from the Division participated in the deliberations.

## Divisional Events / Conferences:

### T&D Conclave – 2016

The 10th T&D Conclave was held on 16th December 2016 in Gurgaon. Attended by more than 275 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 Westin, Gurgaon witnessed the presence of eminent personalities like Dr. Deepak Natarajan, Eminent Cardiologist, Mr. Ashutosh Phalke, Arthakranti Pratishthan, Mr. Arnab Goswami, Republic TV, Dr Arun Gadre and Dr Abhay Shukla, SATHI and Mr. Laxman Rao, Tea Seller cum Author. The 10th Conclave got support from 26 Co-Hosts, which is the highest ever support given by the members

### Representations made:

- Representation submitted to concerned authorities requesting for inclusion of provision for consideration of GST clause in EPC Projects.
- Representation submitted to Ministry of Power, CEA and Powergrid regarding Substation Milestones for Standard Terms & Conditions for Turnkey Transmission, Distribution & Sub-station projects.
- Representation submitted to JPC for Steel price increase, not getting reflected in JPC Circulars

### IEEMA Statistics - Production Trend

NAME OF THE PRODUCT	UNIT	Cumulative April to March		% Variation 2016-17 over 2015-16	Previous Highest Annual Production	Maximum Comparison Factor %
		2015-2016	2016-2017			
Transmission Line Towers	000'MT	1005	1052	4.7	1250	84.16

## PUBLIC POLICY CELL

The Public Policy Cell was re-constituted by the Executive Council in 2016-17, under the chairpersonship of Smt. Indra P Menon, Executive Director and President, Lakshmanan Isola Pvt. Ltd. and Shri Vikas Khosla, President, Aditya Birla Insulators as its vice-chairman. The members of this Cell are chairmen and vice chairmen of all IEEMA product divisions, besides other nominated members from the industry.

The Cell conducted four 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; inverted duty structure in manufacturing of equipment; 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, proposal to impose Safeguards Duty / MIP on imports of Aluminium etc.

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 product divisions by suggesting suitable remedial measures for safeguarding the interests of members

## WINDING WIRES

- Industry size: About INR 11,000 Crs
- Imports: INR 1,144 Crs (Estimated)
- Exports: INR 920 Crs(Estimated)
- Number of Members in the Division: 26 Organizations
- Division Meetings:
  - 18th October 2016, Mumbai
  - 21st December 2016, Mumbai
- Number of Division Meetings: 02 ( Two)
- Average Attendance: 05 (Five) Organizations

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

IEEMA Winding wires division has discussed that power industry is doing better and improved demand is observed in pumps/ motors/ appliances segment. However demand in auto segment seem to be reducing through with the new development of electric cars, the demand of winding wires is expected to rise.



Members informed that no improvement was seen in the industry in last 2 quarters. Members expressed that the industry hopes to see better 4th quarter which is a general historical phenomenon.

Division has been discussing that exports are increasing to Gulf, Europe, USA. Payment terms are not improving there is no much capital investment. Members also informed that enamel market is a bit stagnant since a last few years.

### **State of Industry:**

Due to demonetization, the dealer market and consumer product industry is in bad shape. It is hoped that post GST the market will become stable. Following brief points depict as far as winding wires industry is concerned.

- No growth, no demand, payment situation is tough/worsen
- Materials are held up because of BIS/BEE Notification
- Policy of Government should improve
- Electrical Transformer (Quality Control ) Order is good in long run
- Government need to increase the per-capita power consumption which is serious concern.
- L1 regime is a perennial problem resulting in squeezing of prices

To work on security of payment, policy intervention is needed at the highest level where Credit rating/worthiness of supplier

need to be given appropriate weightage in awarding the contract.

Members informed that Winding Wire Manufacturers Association, Indian Copper Association and Bombay Metal Exchange have jointly represented for 12% GST for the entire copper industry, winding wire, cable, conductor, strips and coils etc.

### **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.

### **Technical workshop on Winding Wires:**

Division felt need for techno-commercial updating is required within winding wire division members too. Hence, the division is planning to invite an expert (internal/external) on any identified topic in the meeting for a detail presentations and discussions.

The division is also planning to hold a technical seminar in 2017 jointly with ELROMA 2017 where different subjects like safety, insulation (class of insulation), improving quality standards, improving exports, energy saving, Wire size – mm v/s SWG, etc. shall be covered.

# REPRESENTATIONS

## 2016-2017

### SUMMARY

A summary of representations made by IEEMA during the year with the aim of addressing issues and concerns of the electrical industry are enumerated below:

#### PRE-BUDGET MEMORANDUM 2017-18

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 2017-18 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:-

#### INDIRECT TAXES:

##### Issues on GST - To Include Electricity within GST Regime

As per Model GST Law, electricity had been kept outside the ambit of GST and the States would continue to levy electricity duty on sale of electricity.

In case of works contracts executed in the nature of power transmission and distribution, EPC contractors, power plant, various purchases would charge GST to the Electricity and Power Transmission and Distribution Companies.

Credit of GST paid by the Electricity and Power Transmission and Distribution Companies to the EPC contractors would not be available and hence such credit would be an additional cost to the company.

#### IEEMA Recommended

Electricity be subsumed within the scope of GST.

#### GST liability on supply of goods on advance

Presently, there is liability to pay tax on advance received for services but not for goods, which is already creating various issues.

Under GST, tax on advance on supplies is applicable which would increase the difficulties further, in the following manner:

- a) How a supplier will issue a tax invoice against advance?
- b) Mismatch of sales amount as per GST returns and books of account
- c) Tax payment issues on one tax invoice covering multiple supply location and / or multiple delivery location in different states
- d) Place of supply is not clear at the time of receiving advance
- e) Adjustment of advance
- f) Change in rate of GST rate
- g) Amendment in contract (payment terms, change in order value, order cancelled, change in quantity, change in terms & conditions)
- h) Input credit not available to purchaser on GST paid on advances

#### IEEMA Recommended

Under GST, payment of tax on advance amount should be eliminated in line with ease of doing business. Alternately, a suitable provision should be made incorporating the solution of above issues.

#### Transitional provision on Closing Stock

In respect of excisable closing stock, held on appointed date of GST, assessee having only VAT invoices, would not be allowed to take the credit of excise duty involved in closing stock.

Therefore, the portion of excise duty which is embedded in closing stock of assessee would become their cost and would suffer higher tax again when sold under GST regime.

#### IEEMA Recommended

Assessee should be allowed deemed credit of excise duty on the basis of VAT invoice or the subject goods should attract a lower rate of GST or only SGST.

#### Transaction without Consideration

Clause 5 of the Schedule I of GST Model Law provides that supply of goods and / or services, without consideration by a taxable person to another taxable or nontaxable person, in the course or furtherance of business is also subject to GST.

#### IEEMA Recommended

"Service" word should be deleted from clause 5 of schedule I to avoid any inadvertent and unintended consequences with regard to allocation of service cost with in same legal entity.

#### Manner of distribution of credit by Input Service Distributor

Clause 3 (c) of section 17 of Model Law, in part, mentions the credit of tax paid on input services attributable to a supplier shall be distributed only to that supplier.

#### IEEMA Recommended

"Supply" word should be added in input service distributor provisions.

#### Ambiguity regarding Input Tax Credit in respect of Works Contract

Section 16(9)(c) of the Model GST Law prescribes that Goods and /or services acquired by the principal in the execution of works contract when such contract results in construction of immovable property, other than plant and machinery". Definition of "Principal" means a person on whose behalf an agent carried on the business of supply or receipt of good and / or services.

Clarity is required whether Principal means the ultimate contractor or every sub-contractor in each part of the value chain where there is a sub-contracting.

Similarly, the meaning of plant & machinery is not defined in the GST law, therefore, it will lead to various interpretation. It seems that the intention of the Government is to deny the GST credit only in respect of construction which result in the immovable structure like building.

#### IEEMA Recommended

Relevant sections should be modified to that extent so as to exactly bring out such intention in a proper manner.

#### Multiple tax rate items involved in Works Contract

Normally, in a works contract various materials are involved, which are taxable at different rates. If some material is taxable at 5% and others at 18% or at 28% then at what rate WCT will be taxable.

Now works contract is taxable at a single rate or taxable slab-wise rates.

#### IEEMA Recommended

To issue a clarification on the matter.

#### Divisible Works Contracts

If the price of material and erection charges are mentioned separately in a contract, then under GST, whether total contract will be treated as a single works contract, or material portion will it be treated as supply of goods and erection portion will be treated as supply of service.

If there is difference in rate of tax on Goods and on services, then it will be point of dispute and litigation. If place of supply rules for Goods and services are different, then it is not clear, which rule would be made applicable.

#### IEEMA Recommended

To issue a clarification on the matter.

#### **Input Credit on Composition Dealer under Works Contract**

If a sub-contractor is in composition scheme then main contractor cannot take credit of GST paid by sub-contractor.

It is not clear whether the main contractor is allowed to take deduction of the sub-contractor's bill for GST calculations. Otherwise this may result in double taxation.

#### IEEMA Recommended

This double taxation should be removed by amending definition of transaction value.

#### **Free Supplies in Works Contract**

As per Chapter IV, Section 15 Clause 2(b) of Model GST law, transaction value includes free supplies by awardee. This leads to double taxation e.g. an awardee would pay GST during purchase of materials and again he is liable to pay GST on the same under works contract.

#### IEEMA Recommended

This double taxation should be removed by amending definition of transaction value.

## **OTHER ISSUES**

#### **Remove Import Duties on CRGO Electrical Steel**

Cold Rolled Grain Oriented (CRGO) electrical steel is a critical raw material for manufacturing of transformers CRGO is fully imported as it is not manufactured in India.

Currently, CRGO consumption in India is about 2.5 lakh MT / annum. Consumption is estimated as 11.5 Lakh MT for entire 12th Plan period (2012-2017) and 13.5 Lacs MT for entire 13th Plan period (2017- 2022).

#### IEEMA Recommended

The country needs to plan domestic CRGO availability strategically. Present Basic

Customs Duty on CRGO Steel is 5%. NIL BCD on imports of CRGO Steel be allowed (HS Code 72251100 and 72261100), till indigenous production is made available.

#### **Ease of doing business-Integration of EDI System of Customs with Excise**

Various documents are needed to be submitted, required by customs from central excise and visa versa. Very often, exporters & manufactures face procedural delays in getting these documents; as a result, the exporter's benefit /rebate claim is not filed timely.

#### IEEMA Recommended

Since EDI system is implemented, the Excise Department may view the shipping bills & other information available online in EDI and allow rebate claims & other incentive without insisting on receipt of a physical signed copy of Shipping Bills and ARE 1. This will considerably reduce the transaction cost and shall give competitive edge to the exporters in the global markets.

#### **Mandatory Fixed Pre Deposit**

Section 35F of Central Excise Act, 1944 amended to fix mandatory pre-deposit of 7.5% of duty demanded or penalty imposed or both for filing appeal before the Commissioner (Appeal) and another 10% of same for filing appeal before the Tribunal.

A hefty amount of 17.5% is blocked for years, even if assessee holds a case of merit. If the case of a favourable decision there is an additional burden of refund application

#### IEEMA Recommended

Considering ease of doing business, mandatory Fixed Pre Deposit be done away with.

#### **Duty Free Imports of Electricity Meter Parts**

Electricity Meter manufacturers pay basic



customs 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 and 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%.

#### **IEEMA Recommended**

Nil basic custom duty be imposed on 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). However, the basic customs duty on raw materials for Cable Terminals and Connectors (ITC HS code 8536) are between 5% to 10%.

This is a case of inverted duty where the finished product becomes import attractive making the domestic manufacturers uncompetitive.

#### **IEEMA Recommended**

Keep the finished products, falling under Chapter heading 8536, at 10% basic customs duty by withdrawing present nil Duty import as per notification No. 25/2005 – customs, dated 1st March 2005.

#### **Difficulties faced by assesseees accorded with ACP status under Risk Management system**

As per Customs Circular No. 29/2010

dated 20.08.2010, (amended by Circular No.18/2014 dated 22.12.2014) Accredited Clients Programme (ACP) status accorded to any assessee by the Customs authorities shall be withdrawn, where any show cause notice has been issued to the assessee seeking to demand an amount in excess of INR 50 lakh towards Customs/Excise duties or an amount in excess of INR 25 lakh towards Service Tax and the assessee has not paid the amounts so demanded with due interest and Penalty within 30 days of issue of show cause notice.

It is a fact that large business houses, by their sheer volume of business, would have some or the other cases under litigation on account of interpretational issues viz. classification, valuation, CENVAT credit entitlement, entitlement to exemption benefits or concessional rate of duty etc., exceeding the aforesaid limits set out for granting ACP status.

#### **IEEMA Recommended**

There is an urgent need to examine the merits of the show cause notices issued against the assesseees to ascertain whether the demands issued to them are of interpretational nature or whether there is indeed any mala fide intent on their part to evade duties/taxes and accordingly, decide whether or not to withdraw the ACP status accorded to them.

#### **Non-Alignment of Notified “International Organisation”, under Foreign Trade Policy and Excise Statute for Claiming Deemed Export Benefits**

Para 8.2(d) of the Foreign Trade Policy provides “deemed export” status to goods supplied to projects financed by multilateral or bilateral Agencies / Funds as notified by Department of Economic Affairs (DEA), Ministry of Finance. However, under excise statute, this exemption is available only to supplies made to an international organisation notified under Section 3 of the United Nations (Privileges and Immunities) Act, 1947.

All agencies notified by DEA are not covered

by the list notified under United Nations (Privileges and Immunities) Act (for example, Japan International Cooperation Agency). In this case, excise duty needs to be paid even though the project enjoys deemed export status, as per Foreign Trade Policy.

#### IEEMA Recommended

Make suitable amendments in the notification no. 108/95-CE so as to align the same with entities notified by the DEA.

#### **Interest on Excise Duty for Differential Price**

The delay in raising of supplementary invoice, in case of price variation contracts is caused due to delay in declaration of prices of various inputs by the government.

#### IEEMA Recommended

Amendment in Sub-Rule 4 of Rule 7 of Central Excise Rules 2002, replacing 'the month for which the duty is determined' by 'the month in which the duty is determined', to avoid applicability of interest.

#### **Denial of Excise Duty Exemption on Steel and Cement for Mega / Ultra Mega Power Projects**

Notification no. 12/2012-CE, dated 17.03.2012, provides excise duty exemption and is applicable to all goods falling under 'any chapter'. This exemption is only available when there is corresponding customs duty exemption.

However, corresponding customs exemption notification 12/2012-Cus, dated 17.03.2012 (Sr. no. 507) is applicable only to chapter 9801. Structural steel / cement used in construction are not covered under this chapter.

#### IEEMA Recommended

Sr. no. 507 appearing under chapter 9801 of the notification number 12/2012-Cus, be amended to read as 'any chapter'. Amendment will help in reducing project cost.

#### **Central Excise Valuation (Determination of Price of Excisable Goods) Rules, 2000**

A provision is added in the Rule 6 of the Central Excise Valuation (Determination of Price of Excisable Goods) Rules, 2000 by notification no. 20/2014 CE (N.T.), dated 11.7.2014, that in cases where excisable goods are sold at a price below the manufacturing cost and profit and there is no additional consideration flowing from the buyer to the assessee directly or from a third person on behalf of the buyer, the value for the assessment of duty shall be deemed to be the transaction value.

The provision calls for additional work of obtaining cost certificate for each such case and compare with transaction value. This will increase the cost & clearance time. Market penetration was perceived as an additional consideration in the Supreme Court decision in the case of FIAT India Ltd. in 2012.

#### IEEMA Recommended

Parameters to verify additional consideration be provided to avoid disputes. The clarification should be provided for keeping only calculated values in soft format and non-obtaining the cost certificate in CAS-4 format.

#### **Mismatch of Central Excise Duty on finished product and its raw material:**

Central Excise Duty on Electrical Transformers is 12.50%.

However, the central excise duty on one of the material required for making Transformers i.e. Transformer Oil / Transformer Oil Base Stock falling under chapter heading No. 2710 attract a duty of 14%.

#### IEEMA Recommended

Reduce Basic Central Excise Duty of Transformer Oil / Transformer Oil Base Stocks falling under Chapter heading No. 2710 to 12.50%.

#### **MRP Based Valuation Excise Duty**

Presently, abatement on electrical goods, under chapter 8536, is 35%. The purpose of MRP valuation is to protect the interest of retail consumers. However, sub-heading 8536 covers industrial goods also. For example, Chapter 8536.20.10 covers product like ACB, MCCB etc. which are only meant for industrial use.

As per industry practice, normally industrial customers get the discount at the rate of more than 35% and manufacturers pay excise duty on 65% of the value of product.

#### **IEEMA Recommended**

Amend CE Notification no. 49/2008-CE (N.T.), dated 24.12.2008, by including only retail consumer goods at excise sub-heading level and excluding the sub-headings meant exclusively for industrial use.

### **Recovery proceedings pending disposal of Stay Petition**

Central Board of Excise and Customs issued Circular No. 967/01/2013-CX, dated, 01.01.2013, instructing Departmental officers to initiate recovery proceedings in cases where the assessee has not filed an application for stay or has not obtained a stay order or on lapse of a specified period of time after passing of stay order.

#### **IEEMA Recommended**

On grounds of natural justice CBEC Circular No. 967/01/2013-CX dated 01.01.2013 be withdrawn and departmental officers be instructed not to resort to coercive action during pendency of applications for Stay or in cases where Stay Order has been granted but the matter is pending disposal.

### **Limited validity of Stay Order passed by the CESTAT in terms of Sub-section (2A) of Section 35C of the Central Excise Act**

Sub-section (2A) of Section 35C of the Central Excise Act prescribes that in case of a stay granted by a Tribunal, if the related appeal is not disposed off within a period of 180 days

from the date of grant of stay, then, based on an application made by the party, the Tribunal can extend the stay for a further period of 185 days. Such extension will be granted by the Tribunal only in cases where the delay in disposing off the appeal is not attributable to the fault of the applicant party. However, Stay, will stand vacated if the appeal is not disposed of within the total period of 365 days from the date of grant of stay.

Further TRU clarified in 2013 that after the stipulated period of 365 days, stay order shall stand vacated even if the disposal of the case is pending for no fault of the assessee.

Provisions regarding disposal of appeals within specified period and stay orders being vacated after the said period are essentially made for the purpose of discouraging the assessee from continuing to avail the benefit of the interim stay order in their favour by purposely delaying the disposal of appeal proceedings.

#### **IEEMA Recommended**

The provision, resulting in unnecessary routine formality, additional paper work and wastage of CESTAT time, should be repealed. As an alternative, it could be clarified that the provision regarding stay order being vacated after the specified period of 365 days, would not be applicable in cases where the delay in disposal of appeal is not on account of any act or omission on the part of the assessee.

### **Exemption Notifications**

The exemption notifications issued by the government are of two kinds viz. conditional and unconditional. In case of conditional exemption notifications, the manufacturer is required to pay an amount of 6% of sales price in lieu of central excise duty. There is no provision in law/rules to recover the said amount from the customer. Therefore, it becomes a straight financial loss to the manufacturer.

### IEEMA Recommended

In case of all conditional notifications, the law/rules should be amended in such a way that the manufacturer is directed to pay the central excise duty at appropriate rates at the time of removal of the goods and the recipient of goods be allowed to claim refund of the said amount on the basis of 'Duplicate for Transporter' copy of the invoice of the manufacturer. This is in line with the lodging of claim with DGFT for refund of terminal excise duty on supplies under 'deemed export'. Alternately, instead of granting full exemption, excise duty of 5% should be levied on such goods for operational convenience.

### **Amendment in Rule 14 of CENVAT Credit Rules 2004**

The amendment in Rule 14 of CENVAT Credit Rules is a bold step in the right direction. However, the proposed amendment of charging interest only on the utilised portion of wrongly availed credit is effective from 1st April, 2012 only whereas it should be with retrospective effect as if it was there in the CENVAT Credit Rules since inception.

### IEEMA Recommended

This amendment should be made with retrospective effect, so that the pending cases would automatically get resolved.

### **Modalities for Transfer of CENVAT Credit under rule 10 of CENVAT Credit Rules, 2004**

Central Excise Act / CENVAT Credit Rules does not contain any explicit provision for transfer of CENVAT credit, when a manufacturer or provider of output service shifts his factory or transfers his business on account of sale, merger, amalgamation, lease or transfer to joint venture, with a specific provision for transfer of liabilities of such business. The rule only requires that the inputs and / or capital goods transferred are duly accounted for at the new location to the satisfaction of the Deputy / Assistant Commissioner of

Central Excise.

However, Central Excise Range officers having jurisdiction over factory / premises of transferor unit insist that their approval be obtained before stock of inputs and / or capital goods is transferred to the new location / owner and also threaten to initiate legal action. Even if prior approval is requested by the transferor unit, there is delay in giving the same and as a result of it; assessee has to pay duty in cash even if the transferred CENVAT credit is legitimately available for utilization.

### IEEMA Recommended

A provision may be introduced so that credit should automatically be treated as transferred or provision should be made for transfer of unutilized credit on transfer challan in line with Rule 10A of CENVAT Credit Rules, 2004.

### **Unit of Measurement for tariff items**

Under the Central Excise / 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 "kg" to "u".

### **Delay in disposal of appellate proceeding at Commissioner Appeals/CESTAT**

There are undue delays in disposing-off proceedings pending before various Appellate Authorities like Commissioner Appeals/CESTAT on account of various reasons such as:

Inadequate bench strength or a very conservative approach of departmental officers in taking matters to litigation (for decision) instead of disposing of the



matter rationally at the adjudication stage taking cognizance of factual matrix, judicial precedence and CBEC circulars/ instruction.

This leads to huge piling of matters at various appellate forums leading to prolonged uncertainty and ambiguity on the topic under dispute.

#### **IEEMA Recommended**

There is a serious need of robust Appellate mechanism in the country to ensure speedy disposal of proceedings. This could be achieved either by increasing the bench strength of CESTAT or by introducing the concept of fast track Courts for disposing off high value litigation. In addition, departmental officers should be sensitized about the repercussions, on the trade in general, by not undertaking appropriate due diligence at the adjudication stage and thereby putting pressure on the entire appellate system (which results in either denying or significantly prolonging justice).

#### **Introduction of time limit for adjudication of show cause notices**

All indirect tax levies incorporate a mechanism for recovery of taxes short-paid or short-levied or non-paid or non-levied. While the Department has been zealously issuing show cause notices for the same, adjudication thereof is kept pending for years. The prolonged adjudication process adds to the period of delay which coupled with progressive rate of interest burdens the assessee with undue financial hardship for no fault of its own.

#### **IEEMA Recommended**

Suitable amendments be made to introduce time bound adjudication of show cause notices, especially in cases where the delay in adjudication cannot be attributed to the assessee.

#### **Special Audit under Service Tax / Central Excise**

Section 72 of Finance Act provides arbitrary and unguided power to order for special audit at the discretion of Commissioner. "Reasons to believe" having been not defined is wide open for interpretation by the field formation. Also Section 14 of Central Excise Act has similar provision.

This audit is in addition to other existing audits like Departmental Audit, EA-2000 Audit, Tax, Investigation by Tax-Evasion Dept. CERA Audit, and Investigation by DGCEI. All these Departments would audit/investigate same records and burden the assessee.

Responding to frequent audits / investigation including the proposed special audit demands increasing administrative function and engagement of more man power resulting in further burden on the assessee.

#### **IEEMA Recommended**

This section of special audit should be withdrawn. The multiple audits faced by assessee may be curtailed to maximum 2 Audits.

#### **Limit of Exemption from Excise Duty**

There is an exemption from payment of excise duty upto a turnover of INR 1.5 crore per year. This limit is constant for the last 5 years or so and not changed and considering the inflation, it is now very low.

#### **IEEMA Recommended**

The limit of exemption from excise duty may therefore be raised to INR 3 crore. Even under GST, the Government is planning to offer concessional rate up to INR 1.5 Crore and same may be considered for upward revision to INR 3 Crore for manufacturing sector, which will give a lot of relief to MSME units. Similar provisions be made under GST.

#### **Central Sales Tax / Value Added Tax Exemption on Mega Power Projects:**

Imports from foreign suppliers do not attract any CST/VAT, whereas, the domestic

supplies attract CST at the rate of 2% and VAT at the rate from 4% to 14.5%. An office memorandum issued by the Ministry of Power under reference F. No. A-108/98-IPC-I dated 31.05.1999-Clause 2, mentions that the State Governments have been advised to exempt supplies made to Mega Power Plants from levy of Sales Tax and any other local levies. Accordingly, the Sales Tax on domestically manufactured capital goods, the local levies and Octroi would not be considered for the purpose of evaluation of bids, irrespective of the fact whether the State Governments provide this exemption or not. However, some of the project authorities and customers do not accept this de-loading principle (regarding sales tax, local levies & Octroi) and evaluate bids taking these levies, including CST into account.

#### **IEEMA Recommended**

Mega / Ultra Mega Power Projects should be mandatorily exempted from the levy of CST/VAT and this should be provided in the CST Act itself.

#### **Supply of goods to SEZ Units/Developers/Co-Developers by sub-contractors/ sub-vendors**

As per section 8(8) of Central Sales Tax Act 1956, there is exemption of CST for supply of manufactured goods to SEZs against form 'I'. Section 26 of SEZ Act, read with Rule 10 of SEZ Rules, allows exemption of CST to sub-contractors

However, there is no corresponding provision in the CST Act to grant such exemption to sub-contractors/sub-vendors supplying goods to SEZ units/developers/co-developers

#### **IEEMA Recommended**

CST Act be amended to include issuance of form I to both contractors and sub-contractors Certificate 1 and 2 in Form I should also be modified suitably in line with amended provisions.

#### **Ease of compliance in submission of statutory declaration forms - Form C, E, F**

Under the Central Sales Tax Law, statutory declaration forms (Form C, E, F, etc.) are to be submitted with the Sales tax authorities within 3 months from the end of the relevant period to which the inter-state sales pertain. Such declaration forms are required to submit by the dealer for each inter-state transaction separately which entails a lot of time and effort on the part of the dealer in ensuring collection and submission of statutory declaration forms with the Sales tax authorities.

#### **IEEMA Recommended**

Central Sales Tax law be amended so as to permit the following:

- Submission of statutory declaration forms on an annual basis for each customer and State respectively
- Facility to submit statutory declaration forms or certificates online. With considerable development in technology, all the relevant forms under Central Sales Tax Act like Form C, E, F, etc. be allowed to be filed online. This will not only expedite the process of submitting the forms but also will save the time and streamline the process.

#### **Levy of Central Sales Tax on supplies made against Invalidation Letter**

All duties and taxes are exempted when goods imported against Advance / EPCG Authorization; but when they are procured domestically against Invalidation Letter, CST is applicable at the 2% is applicable which is an extra cost.

#### **IEEMA Recommended**

Above CST should be exempted.

#### **Refund of Terminal Excise Duty (TED) to be given if exemption is not available:**

Supply of goods under ICB [Para 8.3 (c) of FTP] are exempted from payment of Excise Duty, subject to conditions of obtaining a certificate that the said goods are required for the project that has been approved by the executive head of the Project Implementing Authority and has to be countersigned by an officer not below the rank of a Joint Secretary of the Government of India in the concerned Line Ministry, which takes at least 12 months of time.

Since the supplies are time bound, equipment suppliers have to execute supplies to the project authority immediately, without waiting for the Project Authority Certificate and have no other option than paying excise duty for supplying the goods.

As these supplies are covered under Para 8.2 (d) of the Policy and eligible for benefit under Para 8.3 of the Policy, request for TED refunds are filed by suppliers in the Regional Offices of DGFT.

#### **IEEMA Recommended**

Amend Para 8.3 (c) of the Foreign Trade Policy for also allowing TED refund benefit to the projects under ICB. This is revenue neutral because TED will be refunded only after payment. Accordingly, suitable amendment be made to DGFT Policy Circular No. 16 (RE-2012/2009-14), dated 15th March 2013 & Notification No 4 (RE-2013) /2009-2014, dated 18th April, 2013.

#### **CENVAT Credit of Excise Duty / CVD paid on Capital Goods**

As per Rule 4(2) of the CENVAT Credit Rules, 2004, maximum 50% of CENVAT Credit is allowed in respect of capital goods in the first year and the balance thereafter.

As a result, a lot of time and effort is spent in terms of year of entry, amount of credit available in each year. This also leads to errors and consequently, long-drawn disputes/litigation with the Department.

#### **IEEMA Recommended**

For better cash flow management and to reduce the administrative process, full credit may be allowed in the first year itself for all types of assessees. This would be in line with the provisions on CENVAT Credit in respect of inputs.

#### **Extend Service Tax Exemption to Power Sector**

Service Tax exemption is available for construction of infrastructure facilities such as roads, airports, ports, railways, transport terminal, bridges, tunnels and dams, under Mega Exemption Notification no. 25/2012 dated 20th June 2012.

Construction activities undertaken in relation to setting up of power projects are liable to be taxed.

#### **IEEMA Recommended**

Being an important infrastructure sector, works contract related services for power generation, transmission & distribution be exempted from payment of service tax.

#### **Rationalization of Service Tax**

Government introduced a new Cesses called Swachh Bharat Cess of 0.5% and Krishi Kalyan Cess of 0.5% of value of taxable services.

#### **IEEMA Recommended**

Swachh Bharat Cess and Krishi Kalyan Cess also to be merged with main tax to overcome hardships and levy of this Cess separately be abolished, for operational efficiency and availment of full Cenvat credit.

#### **Exports to Nepal and Bhutan**

One of the condition to be treated as export of service is that payment should be received in foreign currency.

Services are required to be exported to neighboring countries like Nepal, Bhutan etc. and these countries are not in a position to

pay for the services in convertible foreign exchange.

#### IEEMA Recommended

Payment in convertible foreign exchange including in Indian rupees and local currency may be allowed to qualify as export when services are provided to neighboring countries.

### Adjustment of Service Tax on bad debts

Presently, Service Tax Rules 1994 allows for an adjustment of service tax where an assessee has issued an invoice, or received any payment, against a service to be provided which is not so provided by him either wholly or partially for any reason, or where the amount of invoice is renegotiated due to deficient provision of service, or any terms contained in a contract. However no adjustment is allowed for bad debts incurred by a service provider. In case of a bad debt, the service provider bears a double-blow. Not only the service provider loses on the amount due from the service recipient but is also required to pay Service Tax from his own pocket for a service for which he receives no consideration.

#### IEEMA Recommended

Suitable amendment be introduced to allow adjustment of Service Tax on invoices in case of bad debts, on lines of Income Tax Act.

## DIRECT TAXES:

### Difficult Terrain Exemption

Some organisations execute projects under difficult terrains and adverse political environments in countries like Afghanistan, Iraq, Africa or 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.

### New Section for allowability 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. 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.

#### 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.

### Corporate Tax

Spending INR 100 Crore in a period of 2 years, from 1-4-2013 to 31-3-2015, is applicable to big industry only and midsize industry will not get the benefit of this. Time period allowed for this is also less, as a project requires many clearances.

#### IEEMA Recommended

Allow more flexibility to newly introduced Section 32 AC.

### Disallowance arising due to non-compliance with TDS provisions upto AY 2014-15

As per amendment in Finance (No. 2) Act,



2014, w.e.f. AY 2015-16, in case of non-compliance with TDS provisions, only 30% of such expenditure is subject to disallowance. Correspondingly, the law provides that in the year when TDS provisions are complied with, 30% of the expenditure should be allowed.

The way the provision is currently worded, it suggests that if certain expenditure which were 100% disallowed (as it relates to period till AY 2014-15) and TDS compliance is done on the same from AY 2015-16 onwards, then only 30% of such expenditure will be allowed as deduction. This creates an anomaly.

#### IEEMA Recommended

Government should clarify that whatever percentage of expenditure is disallowed in past due to non-compliance with TDS provisions, same percentage of expenditure will be allowed in the year in which TDS compliance is made good.

#### Deputation of Employees:

In the MNCs, as a part of their global policy, many expatriate employees from overseas country are deputed to India to work for India Group Company, under the supervision and control of the Indian company. As part of this arrangement, expatriates are paid some part of their salary in overseas country by the foreign enterprise and then the same is claimed as reimbursement from Indian company.

Tax Authorities in India in certain cases argues that such reimbursement of salary cost is in the nature of service fees paid to foreign enterprise which qualifies as FTS and subject to tax in India.

#### IEEMA Recommended

A clarification be issued by the Government that in case of deputation of employees to India, who work under the supervision and control of Indian company, reimbursement of salary cost to foreign company shall not qualify as FTS under the Act (subject to appropriate tax withholding compliance is

done on such salary payment).

#### MAT Tax Rate

Presently Corporate Tax rate for Indian Companies is 33.99%. MAT rate for Indian Companies is 20.96%. The ratio of MAT which is considered as Minimum Alternate Tax is too high as compared to normal tax rate. There is a genuine need to lower the rate so to justify the same to be a "minimum alternate tax".

#### IEEMA Recommended

MAT rate should be restricted to 50% of the normal tax rate.

## MAJOR REPRESENTATIONS:

### Safeguards Duty on Imports of Not-Alloyed Ingots of Unwrought Aluminium

A petition was filed by domestic aluminium producers, before the Directorate General of Safeguards, for imposition of a Safeguard Duty on imports of Not-Alloyed Ingots of Unwrought Aluminium into India.

Safeguards Duty, if imposed on PUC, would have serious repercussions on downstream manufacturing industries, since it is a major raw material for manufacturing of Conductors, Cables and Capacitors which are further supplied to various power and infrastructure projects.

IEEMA submitted representations to Director General (Safeguards), Ministries of Mines, Power Commerce and Industry, Finance and various other concerned authorities stating that downstream manufacturing industries provide larger employment and have much more potential than the aluminium producers (around 3,000 small, medium and large scale manufacturers in conductor and cable manufacturing sector alone, employing 2 million people). Protecting the aluminium producers at the cost of downstream user industry of aluminium, would have adversely affected the competitiveness and employment opportunities of the latter.

It is always the basic principle of import duty, to have a lower duty on raw materials than on finished goods. Currently, that is not the case, and in the previous budget, the rate of import duty on aluminium was increased from 5% to 7.5%, and hence the rate of import duty on raw materials and finished goods for cables, conductors etc. is same as that of finished goods.

Government must provide a long term solution to the electrical equipment industry for addressing the inverted duty structure, prevalent under Chapter 98, under Project Imports. The applicable duty under Project Imports is only 5% and already the import duty on most of the components of the electrical industry is upto 10%, thus resulting in a negative differential. In any case Transformers, Cables and Conductors and any other products currently manufactured in India should not be allowed to be imported under Chapter 98. These products should be reserved exclusively for the Indian manufacturers, at least for the domestically funded projects.

(Based on IEEMA representation, petition for imposition of Safeguards Duty on imports of Not-Alloyed Ingots of Unwrought Aluminium was rejected by Directorate General of Safeguards.)

### **Rules of Origin under Regional Comprehensive Economic Partnership**

Regional Comprehensive Economic Partnership (RCEP) – a comprehensive Free Trade Agreement; is going to take place between the 10 Member States of ASEAN and its 6 FTA partners, viz. Australia, China, India, Japan, Republic of Korea and New Zealand.

The Department of Commerce, Government of India, had sought inputs from all stakeholders on Product Specific Rules of Origin (PSR) and the reasons thereof.

IEEMA submitted its recommendations to the government that Product Specific Rules for 273 products manufactured by IEEMA

members (under 8 digit HS Code), be "Change in sub-heading (CTSH) at the six digit level from any other heading, plus a Regional Value Content (RVC) of not less than 40 per cent", along with its justifications.

(IEEMA submission was accepted and is under active consideration of Department of Commerce, Government of India).

### **Ease of Doing Business**

IEEMA sought inputs from members Based on the inputs received from the industry, a comprehensive representation comprising of issues and suggestions for removal of difficulties, for establishing ease of doing business was submitted to the Ministry of Commerce and Industry, Government of India.

(IEEMA recommendations were actively considered by the Government).

### **Preferential Trade Agreement between India-MERCOSUR**

IEEMA submitted representations to the Department of Commerce, Department of Heavy Industry and Department of Industrial Policy and Promotion, Government of India, regarding India-MERCOSUR Preferential Trade Agreement.

The total trade of electrical equipment between India-MERCOSUR was shown during the last 10 years While, in general, India has trade surplus with MERCOSUR countries, with respect to trade of electrical equipment; however, there are some tariff lines, where surge in imports from MERCOSUR countries have been witnessed. IEEMA recommended keeping of these electrical products in the sensitive / negative list of India, under India-MERCOSUR PTA.

IEEMA also submitted the products for which the industry desires complete market access in MERCOSUR countries and recommended keeping of these items in the wish list of India.

(IEEMA recommendations were actively considered by the Government).

### **Review of India-Korea CEPA**

The Government of India reviewed the India-Korea CEPA agreement. In its feedback submitted to the Department of Commerce, IEEMA recommended that the dual criteria of rules of origin, i.e. "A regional value content of 40 per cent plus change in sub-heading (CTSH) at the six digit level" be maintained for electrical equipment industry.

In the justification, it was mentioned that imports of electrical equipment into India have assumed very threatening proportions which captured 33.36% of Indian electrical equipment market. On the other hand, there is significant under-utilisation of installed domestic capacity, 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% in 2015-16) of the total, from 2.15% in 2006-07. Imports from Korea have grown 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 only grown 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 its' 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.

From Indian exports point of view, there are certain Technical Tariff Barriers faced by Indian exporters in Korea. The power utilities in Korea do not recognize CPRI Certificates

and insist on certifying electrical equipment from other international laboratories, like CESI (Italy) and KEMA (Holland). The testing costs at these foreign laboratories are very high and consume a huge amount of working capital, besides transportation cost of equipment to these countries. There should be some institutional mechanism to address this issue for removal of this barrier.

(Feedback of IEEMA on India-Korea CEPA was actively considered by the Government).

### **Vendor Development Policy for State Utilities**

IEEMA submitted its views on Vendor Development Policy to Ministry of Power and all State Utilities, emphasizing following of same by all utilities of the country, in case of products where no local producer is meeting the past sales records. This is in order to support Indian manufacturing and to ultimately reduce the costs, which is also followed by foreign utilities for their respective local vendors

In many cases, the Indian manufacturer has the Technology and designing, manufacturing and testing capabilities but is not able to supply to the Indian utilities for want of the required experience (referred to as PQR). Resultantly, the Indian companies are neither able to go up the value chain nor have any other route to manufacture and supply these products. If the equipment is not tried and tested by the Indian utilities, it is impossible to sell to the Utilities overseas.

While, promoting new Indian manufacturers it is essential for indigenous capacity enhancement and also to protect the interest of the utilities. Under no circumstances, the Indian utilities should be burdened with equipment which is not as per the technical specifications and gets proven in field trials. Thus, in short, it is important to promote the Indian Industry with adequate safeguards for the electrical utilities - both financial and technical.



Gujarat has a Vendor Development Policy, which addresses both these issues. It has been tested for the past 4 years and found to be successful in meeting both the objectives.

IEEMA sought intervention and requested the Ministry of Power to get similar policy mandated for adoption by all major utilities of the country.

(IEEMA recommendations are under active consideration of the Government)

### **Cyber Security of Critical Power Control Equipment Installed in the Country**

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.

Malware and spyware in these communicable devices, which can be activated any time even by remote, have the potential to damage or cause failure or collapse of the Grid. It is a matter of National Security, particularly in the context of SCADA System, contracts of which have been allocated to Chinese companies in few States.

A war between India and China may not happen but a possibility of conflict between these two countries exists theoretically. When we do not let buy defense and telecom equipment from China, power equipment are of equal criticality for the nation and should not be sourced from Chinese companies.

(On IEEMA recommendations, Department of Heavy Industry conducted a meeting of all stakeholders for getting inputs on the issue and way forward. Ministry of Power constituted a Committee, under Central Electricity Authority, to examine & give its recommendation to migrate the risk of cyber attacks on electrical grids.)

### **Request for 12% GST Rate on Electrical Power Generation, Transmission and Distribution Equipment**

IEEMA submitted representation to the Ministries of Finance, Power, Commerce and Industry and Heavy Industries, requesting to impose 12% GST rate on electrical power generation, transmission and distribution equipment, with following justifications:

An efficient power supply system is a key requirement for a nation's economic growth and the quality of life of its citizens. Assured availability of quality power at a reasonable cost is not only a catalyst in the socio-economic development of the country, but also enhances the global competitiveness of the industrial sector leading to enhanced employment generation and per capita income.

The electrical equipment industry plays a very important role not only in GDP growth but also in providing employment in the country. Global trade in electrical equipment accounts for 3% of the overall trade. While global trade has grown at 18% since 2010, trade in electrical equipment has grown by 9% over the same period; thus despite an increase in electrical equipment trade, its share in global trade has not increased. So by reducing GST rate, share in global trade will increase.

Since the electrical industry supplies equipment's for infrastructure Development of the country, 12% rate of GST should be imposed on all products supplied to electrical equipment used in Generation, Transmission & Distribution and consumption. This would not bring any revenue loss to the Government, since lowering of GST would lead to reduction of project cost, thereby enabling execution of more such projects within the available resources. Reduced cost of generation and distribution of electricity will improve the profitability of power projects. Profitability in this sector will generate the scope of new investment into this sector. 12% Rate of GST



would also lead to lowering of the cost of electricity.

(Ministry of Finance noted the recommendations of IEEMA)

### **Tariff Concessions under Chapter 98**

IEEMA submitted representation to Ministry of Finance and Shri Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines, regarding adverse impact of customs duty concessions given under Chapter 98, also requesting equivalent benefit to the Indian electrical industry and advance intimation to the industry before grant of permission to such imports.

There is a differential of 2.5%- 5% in basic customs duty under Chapter 98 and normal basic customs duty of a product. Imports of electrical equipment under Chapter 98 is therefore a clear disadvantage to the domestic industry. Further, significant imports of electrical equipment and industrial electronics are at present being made under Chapter 98.

Analysis of imports from April 2007 to September 2016 showed cumulative imports of INR 149 thousand crore under Chapter 98 during this period. All these imports have been made under concessional tariff and clearly was a business- significant portion of which could have been serviced by Indian industry. While Indian capacities are remaining unutilized, the imports are being made by the consumers because of tariff concessions granted by various departments in the Government of India.

The concern of IEEMA is about absence of a level playing field to the Indian manufacturing sector. The precise reason for introducing project imports was that domestic industry did not have sufficient capacities at that time (when project imports regulation was notified in 1986); however, today domestic industry is already suffering from under-utilized capacities (of the order 30 - 40%) and about

30 - 35% import share in total Indian Market; IEEMA request that Chapter 98 benefit should be completely revoked.

However, wherever it is inevitable to provide any tariff concessions under a project, Government should consider supplies by the domestic industry in these projects as deemed exports and grant such benefits to the domestic industry as are being presently granted by Government of India, under deemed exports scheme, under Foreign Trade Policy.

Further, IEEMA strongly recommended that whenever any project is being considered for the purpose of grant under Chapter 98, the association and / or domestic industry must be intimated regarding the same.

(On IEEMA recommendation, Ministry of Power is actively considering phasing out of Chapter 98 provisions for Power Sector)

### **Non-adherence to CEA Guidelines for Domestic Competitive Bidding**

IEEMA submitted a representation to Powergrid and to Shri Piyush Goyal, Hon'ble Minister of State (IC) for Power, Coal, New and Renewable Energy and Mines, regarding non-adherence to CEA Guidelines for domestic competitive bidding in domestically funded projects.

Central Electricity Authority issued advisory to Power Utilities, on domestic Competitive Bidding for Domestically Funded Projects of MoP, CPSUs, PFC or REC and Transparent Two-Part Bidding, with an advice to follow the said guidelines by the Utilities in National Interest.

IEEMA requested the authorities to intervene so that the said guidelines of the Central Electricity Authority are followed by all stakeholders in the Power Sector.

(IEEMA views were actively considered by Ministry of Power. CEA issued reminders to all Central and State Utilities for following its advisory).



## INDIAN ELECTRICAL & ELECTRONICS MANUFACTURERS' ASSOCIATION

**INDIAN ELECTRICAL & ELECTRONICS MANUFACTURERS' ASSOCIATION (IEEMA)** is the first ISO certified industry association in India with over 800+ member organisations encompassing the complete value chain in power generation, transmission and distribution equipment. IEEMA members have contributed to more than 95% of the power equipment installed in India. The Indian Electrical Equipment Industry size in 2016-17 was in excess of USD 25 billion, with Exports of USD 6 billion.

### CORPORATE OFFICE

Rishyamook Building,  
85 A, Panchkuian Road, First Floor  
New Delhi – 110001, INDIA

Tel: +91 11 2336 3013 / 14  
Fax: +91 11 2336 3015  
Email: delhi@ieema.org

### REGISTERED OFFICE

501, Kakad Chambers,  
132, Dr. Annie Besant. Road, Worli  
Mumbai – 400018, INDIA

Tel: +91 22 2493 0532 / 6528 / 6529  
Fax: +91 22 2493 2705  
Email: mumbai@ieema.org

### REGIONAL OFFICE

503A, Oswal Chambers,  
2, Church Lane  
Kolkata – 700 001, INDIA

Telfax: +91 33 6510 7855 /  
+91 33 2213 1326  
Email: kolkata@ieema.org

### REGIONAL OFFICE

204, Swiss Complex,  
33, Race Course Road  
Bangalore – 560 001, INDIA

Tel: +91 80 2220 1316 / 1318  
Fax: +91 80 2220 1317  
Email: bangalore@ieema.org

### STATE HEADS

**Anuj Chaturvedi (Uttar Pradesh & Uttarakhand)**  
Email id: anuj.chaturvedi@ieema.org  
Cell: +91 98396 03195

**Bharati Bisht (Haryana, Himachal Pradesh & Punjab)**  
Email id: bharti.bisht@ieema.org  
Cell: +91 98882 08880

**Devesh Vyas (Rajasthan)**  
Email id: devesh.vyas@ieema.org  
Cell: +91 89550 93854

**Irfan Parray (Jammu & Kashmir)**  
Email id: irfan.parray@ieema.org  
Cell: +91 98584 55509

**Jesse Inaparathi (Andhra Pradesh & Telangana)**  
Email: jesse.inaparathi@ieema.org  
Cell: +91 99492 35153

**Nilankha Chaliha (North Eastern States)**  
Email id: nilankha.chaliha@ieema.org  
Cell: +91 97063 89965

**Smruti Ranjan Samantaray (Odisha)**  
Email id: smrutiranjana.samantaray@ieema.org  
Cell: +91 91785 89920

**Tarjani Patel (Gujarat, Maharashtra, Goa, Daman & Diu)**  
Email id: tarjani.patel@ieema.org  
Cell: +91 98331 04602

**Website: [www.ieema.in](http://www.ieema.in)**