

ieema

your link to electricity

Indian Electrical & Electronics Manufacturers' Association

68TH ANNUAL REPORT 2014-2015



emPOWERing MAKE IN INDIA



Inauguration of INTELECT 2015 Exhibition (L to R) Mr Tanga Byaling Chairman, North Eastern Regional Power Committee, Minister for Home, Power & Non-Conventional Source of Energy, Arunachal Pradesh, Mr Anant Geete, Union Minister for Heavy Industry & Commerce, Government of India and Mr Vishnu Agarwal, President, IEEMA.



(L to R) Mr Babu Babel, Vice President, IEEMA, Mr Vishnu Agarwal, President, IEEMA, Mr Venkaiah Naidu, Minister for Urban Development and Poverty Alleviation, Mr AS Chouhan, Vice President IEEMA, Mr Raj Eswaran, Immediate Past President, IEEMA and Mr Anil Swarup, Secretary, Ministry of Coal, Gol lighting the inaugural lamp for 67th IEEMA AGM and Annual Convention.

PRESIDENT'S MESSAGE



Mr Vishnu Agarwal

Chairman & Managing Director
Technical Associates Ltd

Dear Friends,

As IEEMA steps into its 69th year I am proud that all through these years it has continuously strived to represent the interests of its members, in consonance with the national interest. The year 2014-15 brought some good news to the beleaguered power sector of the country.

With an objective to provide 24x7 electricity across the country by 2019, the government has taken several policy measures and landmark decisions for generation of power, strengthening of transmission and distribution, separation of feeders and metering of power to consumers.

The fiscal year 2014 saw India enter a new phase of positive sentiment and optimism. The formation of a stable government with a strong mandate had a major positive impact on sentiment and the medium-to-long term economic outlook.

A clarion call was given by the Honourable Prime Minister of India for 'Make in India', which has energised the people of the entire country, especially the business community. I see huge potential for a quantum leap with rigorous and effective implementation of the 'Make in India' programme.

The last 11 months have been significant with several new developments defining the power sector of the country. I would like to recapitulate a few of the successes during my tenure as President of IEEMA:

- ▶ **INTELECT 2015:** With 10,000 quality visitors the first edition of INTELECT 2015 as a show to promote the concept of Smart Grids and Smart Electricity was quite successful. 'The synergising relationship between IEEE, IEEMA and the Government of India has resulted into a path-breaking dialogue for Intelligent electricity which will benefit the key stakeholders and end customers.
- ▶ **emPOWERing MAKE IN INDIA:** Under the banner of 'emPOWERing MAKE IN INDIA', IEEMA has initiated this task of organizing meetings with power utilities of various states to highlight issues of power distribution, need for technology inputs and curbing pilferage of electricity at the state level. The first edition of this meeting was initiated at Chandigarh with many more across the country through the year. Key to the agenda behind these meetings was the objective of delivering commercially viable and competitive power supply to all consumers in the state as a critical input for industrial development and achieving the objectives of 'Make in India'.
- ▶ During the past year, IEEMA also hosted events like the **8th International T&D conclave** attended by leading players in the field of Electrical Transmission and Distribution, **CAPACIT 2014**, 8th International Conference on Capacitors, which is one of the most significant events on Electronics & Power Conditioning, and **INSULEC 2015**, which is one of

the most sought after technical events in the field of Electrical Insulating Materials.

- ▶ Parallel to these, IEEMA also held several rounds of meetings with Honorable Members of Parliament in order to sensitise them to the issues pertaining to the electrical equipment industry.
- ▶ IEEMA had also presented its Pre-Budget Memorandum 2015-16 to the Ministry of Finance through Ministry of Power, Department of Heavy Industry, Department of Industrial Policy and Promotion and other Government agencies. IEEMA Economic and Taxation Committee also had interactive meetings with the Ministry of Finance and Department of Industrial Policy and Promotion as a part of its pre-Budget exercise.
- ▶ Some of the issues represented by IEEMA have been addressed in the Union Budget 2015-16 in favour of the industry such as Removal of Inverted Duty Structure in Manufacturing of Insulators and Insulated Cables, Inclusion of Electrical Equipment under MEIS Scheme of Foreign Trade Policy, and others.
- ▶ IEEMA also launched a revamped website (ieema.in) during this year. This website, developed on cutting-edge technologies, reinforces the values that IEEMA stands for, projects the size and power of the Indian electrical equipment industry and power sector while at the same time creating a platform for more interactive dialogue between IEEMA and its members.

I would strongly urge you to visit the site and register to benefit from it, in case you have not done so already.

While IEEMA continues its fight against cheap electrical imports, it is also continuously striving to increase the exports of electrical equipment from India.

My report would be incomplete if I do not mention ELECRAMA-2016. This time the exhibition space booking has moved onto a digital platform. Within a few days of opening the online bookings we sold almost 70 per cent of exhibition space. Also, with 'Make in India' being the new mantra of the country, ELECRAMA-2016 will more than adequately demonstrate the preparedness of the Indian electrical equipment industry to make this mantra successful.

I would like to extend my heartfelt gratitude to all IEEMA members, Council members, Office bearers and last but not the least, our Secretariat who have tirelessly worked around the clock to bring to fruition our various initiatives. I am confident that the incoming team will find a well-primed machine ready to support our industry in every possible way and achieve our ambitions of transforming the Indian electrical equipment industry into the favoured destination for global requirements.



Vishnu Agarwal

EXECUTIVE COUNCIL



PRESIDENT

Mr Vishnu Agarwal
Chairman & Managing Director
Technical Associates Ltd



VICE-PRESIDENT

Mr Ajit Singh Chouhan
Managing Director
Weir India Private Limited



VICE-PRESIDENT

Mr Babu Babel
Jt. Managing Director
Secure Meters Ltd



PRESIDENT (PREVIOUS YEAR)

Mr Raj H Eswaran
Managing Director
Easun Reyrolle Limited

ELECTED MEMBERS



Mr Harish Agarwal
CEO
Supreme & Co



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



Mr Vinod Bhatia
Managing Director
Powercap Capacitors Pvt Ltd



Mr RK Chugh
Vice-President - South Asia
Energy Automation
Smart Grid Solutions & Services
Siemens Ltd



Mr Chaitanya Desai
Managing Director
Apar Industries Ltd



Mr Aaditya R Dhoot
Managing Director
IMP Powers Limited



Mr Shreegopal Kabra
President
Ram Ratna Wires Ltd



Mr Deepak Khandelwal
President - Projects
Emco Limited



Mr Satyen J Mamtora
Managing Director
Transformers & Rectifiers (India) Ltd

ELECTED MEMBERS



Mr Manish Pant
Vice-President
Schneider Electric India Pvt Limited



Mr S Raj Sabapathy
General Manager In-charge (CBU)
Bharat Heavy Electricals Ltd



Mr Anil Saboo
Managing Director
Elektrolites (Power) Pvt Ltd



Mr Sanjeev Sardana
Managing Director
Yamuna Power & Infrastructure
Limited



Dr Jaya Sathe
Managing Director
Gilbert & Maxwell Electricals P Ltd



Mr Narayan Sethuram
Managing Director & CEO
W.S. Industries (India) Ltd



Mr Pitamber Shivnani
President - Power Products
ABB India Limited



Mr Biswaroop Ukil
Vice-President - Indian
Subcontinent
Crompton Greaves Ltd

CO-OPTED MEMBERS



Mr Satyajit Chattopadhyay
Managing Director
WEG Industries (India) Pvt Ltd



Mr Vikas Jalan
Vice-Chairman & Jt MD
Deccan Enterprises Limited



Mr Vikas Khosla
President
Aditya Birla Insulators



Mr Dileep Mangsuli
Site Leader
GE India Export Pvt Ltd



Mrs Indra Prem Menon
Managing Director
Lakshmanan Isola Pvt Limited



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

STANDING INVITEES



Mr Ramani Kasi
President
Raychem RPG P Ltd



Capt. VW Katre
Director
20 Cube Logistics P Ltd



Mr Vimal Kejriwal
Managing Director & CEO
KEC International Ltd



Mr N Murugesan
Director General
Central Power Research Institute



Mr S Rajavel
Executive Vice President & Head
Water & Renewable Energy
Larsen & Toubro Limited



Dr MK Shah
Director
Electrical Research & Development
Association (ERDA)



Mr Somesh Sehgal
Former General Manager (T&D)
Crompton Greaves Ltd

INVITEES & COUNSELLORS



Mr JG Kulkarni
Past President - IEEMA



Mr RD Chandak
Past President - IEEMA



Mr Vimal Mahendru
President
Novateur Electricals & Digital
Systems P Ltd



Mr Murali Venkatraman
Vice-Chairman
W.S. Industries (India) Limited



Mr VV Paranjape
Past President - IEEMA

SPECIAL INVITEE



Mr P Umashankar IAS (Retd)
Former Secretary,
Ministry of Power

DIVISIONAL CHAIRMEN



CABLE DIVISION

Mr Bharat A Jaisinghani

Director
Polycab Wires Pvt Ltd



CAPACITOR DIVISION

Dr Venkatesh Raghavan

President, Power Quality Solutions
EPCOS India Pvt Ltd



CONDUCTOR DIVISION

Mr Chaitanya Desai

Managing Director
Apar Industries Ltd



ELECTRICAL INSULATING
MATERIAL DIVISION

Mr Inderpal Singh Khandpur

Executive Director
PRS Permacel Pvt Ltd



INTERNATIONAL BUSINESS
DIVISION

Mr Anil Saboo

Managing Director
Elektrolites (Power) Pvt Ltd



INSTRUMENT TRANSFORMER
DIVISION

Mr Jayaprakash Padavath

Dy. General Manager - R&D
Alstom T&D India Ltd



INSULATOR DIVISION

Mr KS Ramiah

Executive Director (Mktg &
Business Development)
W.S. Industries (India) Limited



METER DIVISION

Mr CP Jain

Director
HPL Electric & Power Pvt Limited



POWER GENERATION SYSTEMS
DIVISION

Mr SC Mittal

Former Executive Director
BHEL

DIVISIONAL CHAIRMEN



ROTATING MACHINE DIVISION
Mr Anil M Naik
Head - New Business Initiatives
Bharat Bijlee Ltd



MV & HV SWITCHGEAR DIVISION
Mr Madhav Digraskar
Managing Director & CEO
Cable Corporation of India Ltd



LV SWITCHGEAR DIVISION
Mr Hemu T Mistry
General Manager - Design &
Development
Larsen & Toubro Limited



SMART GRID DIVISION
Mr Vikram Gandotra
General Manager (Mkt & Strategy)
Siemens Ltd



SME DIVISION
Mr JG Kulkarni
Past President - IEEMA



SURGE ARRESTER DIVISION
Mr Milind Z Zodage
Sr. Manager (Marketing)
Crompton Greaves Limited



TRANSFORMER DIVISION
Mr B Ukil
Vice-President - Indian
Subcontinent
Crompton Greaves Ltd



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



WINDING WIRE DIVISION
Mr Shreegopal Kabra
President
Ram Ratna Wires Ltd

COMMITTEES, CELLS & SUB-COMMITTEES CONVENERS



**ELECTRICAL LAMINATION
COMMITTEE**
Mr Saif Qureishi
CEO & Managing Director
Kryfs Power Components Ltd



QUALITY CELL
Mr MG Sathyendra
QmartGlobal



RENEWABLE ENERGY COMMITTEE
**Mr Satya Narayan
Vijayvergiya**
Sr. Vice-President
Genus Power Infrastructures
Limited



PUBLIC POLICY CELL
Mrs Indra Prem Menon
Managing Director
Lakshmanan Isola Pvt Limited



**ECONOMIC & TAXATION
COMMITTEE**
Mr Vardhan Dharkar
President - Finance
Gammon India Ltd



EASTERN REGION COMMITTEE
Mr Bhaskar Sen
Director
Transformers & Rectifiers (India)
Ltd

IEEMA SECRETARIAT

Sunil Misra

Director General

MUMBAI

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

Shahid Akhtar
Director - Trade Fair

Vilas M Patil
Dy. Director

Suhas Nawathe
Dy. Director

Pragati Sohoni
Sr. Executive Officer

Anil Nagrani
Dy. Director General

Pravin S Kelaskar
Director - Trade Fair Operations & Admin

Ninad Ranade
Dy. Director

Madhura Bhivandkar
Executive Officer

Shalini Singh
Sub-Editor

NEW DELHI

J Pande
Sr. Director

Ajay Mahajan
Head - Trade Fairs Marketing

Sudeep Sarkar
Dy. Director

Reema Shrivastava
Dy. Director

Naveen Upreti
Executive Officer

Vivek Arora
Executive Officer

Nishchal Churamani
Head – Corporate Communications & PR

Anita Gupta
Dy. Director

Jaideep Das
Dy. Director - IT

Anil Mehta
Executive Officer

Dharmaraj Isaac Zaccheus
Executive Officer - Membership & Govt. Relations

Uttam Kumar
Executive Officer

BANGALORE

K Seetharaman
Sr. Executive Officer

Murli Krishna
Manager - Accounts

KOLKATA

Anupam Banerjee
Sr. Executive Officer

INCOMING

Rachna Pawa
Head – Corporate Communications & PR

Niharika Jaiswal
Head - Accounts

Subhajit Dasgupta
Sr. Executive Officer - Kolkata

STATE HEADS

Bhubaneswar
Smruti Ranjan Samantaray

Jaipur
Devesh Vyas

Chandigarh
Bharti Bisht

Lucknow
Anuj Chaturvedi

Guwahati
Nilankha Chaliha

Raipur
Rakesh Ojha

Hyderabad
Jesse A Inaparthi

Srinagar
Irfan Parray

BANKERS

Bank of India, Mumbai
Indian Overseas Bank, Mumbai, Delhi & Kolkata
State Bank of India, Bangalore, Mumbai
The Oriental Bank of Commerce, New Delhi
HDFC Bank, Mumbai

Auditors
Singhi & Co., Mumbai

Tax Auditors
Sharp & Tannan, Mumbai

Internal Auditors
S.R. Rege & Company

Secretarial Consultant
V.N. Deodhar & Co.

COMMITTEES AND SUB-COMMITTEES

For the year 2014-2015

Committee of Administration

Mr Vishnu Agarwal (President)
 Mr Ajit Singh Chouhan (Vice-President)
 Mr Babu Babel (Vice President)
 Mr Sunil Misra (Director General)

Membership Committee

Mr Vishnu Agarwal (President) }
 Mr A.S. Chouhan (Vice-President) } invitees
 Mr Babu Babel (Vice-President) }
 Mr Bhaskar Sen (E)
 Mr Narayan Sethuramon (S)
 Mr Vikas Khosla (N)
 Mr Chaitanya Desai (W)
 Mr Sunil Misra

Advisory Committee for Investment & Audit

Mr Vishnu Agarwal (President) }
 Mr Ajit Singh Chouhan (Vice-President) } invitees
 Mr Babu Babel (Vice-President) }
 Mr Chaitanya Desai
 Mr Deepak Khandelwal
 Mr Sunil Misra

HR Committee

Mr Vishnu Agarwal (President) }
 Mr Ajit Singh Chouhan (Vice-President) } invitees
 Mr Babu Babel (Vice-President) }
 Mr Vinod Bhatia
 Mr Shreegopal Kabra
 Mr Sunil Misra

Advisory Committee for IEEMA Journal

Mr RG Keswani (Founder Chairman)
 Mr Babu Babel
 Mr Mustafa Wajid
 Mr Sri Chandra
 Mr Sunil Misra

Economic & Taxation Committee

- ▶ Mr Vardhan Dharkar, President (Finance) Gammon India Ltd (Chairman)
- ▶ Mr P Ramakrishnan, Head - Finance & Accounts, Larsen & Toubro Ltd (Vice-Chairman)
- ▶ Mr GS Sharma, Former Chairman, Economic & Taxation Committee and Consultant (Taxation), L&T – MHI Boilers Pvt. Ltd.
- ▶ Mr Rajeev Aggarwal, CFO, KEC International Limited
- ▶ Mr NG Krishnan, Director, Novateur Electrical and Digital Systems Pvt Ltd
- ▶ Dr (Mrs) Jaya Sathe, MD, Gilbert & Maxwell Electricals Pvt. Ltd.
- ▶ Mr Ganesh Tawari, General Manager (Finance), EMCO Limited
- ▶ Mr Adarsh Jain, General Manager (Finance / Commercial), KEI Industries Ltd.
- ▶ Mr Arbind Aggarwal, Associate General Manager - Taxation, Schneider Electric India Pvt. Ltd.
- ▶ Mr Ashok Sahijwani, Former Member, E&T Committee
- ▶ Mr Sudhir Zutshi, Head-Government Affairs India, Underwriters Laboratories Ltd.
- ▶ Mr P Sridharan, Sr. Manager (Indirect Taxation), Siemens Ltd.
- ▶ Mr Anand Thakur, Sr. Manager (Commercial), KEI Industries Ltd.
- ▶ Mr Rahul Shah, Chief Financial Officer, Transformers & Rectifiers India Ltd.
- ▶ Mr IC Thakur, DGM (Indirect Taxes), Apar Industries Ltd.
- ▶ Mr Sandeep Tilak, Vice-President (Finance & Corporate Strategy), Bharat Bijlee Ltd.
- ▶ Mr Yogendra Agarwal, Sr. General Manager (Finance), Bharat Bijlee Ltd.
- ▶ Mr Ganesh Jayaraman, DGM Taxation & Legal, KEC International Ltd

REPRESENTATIVES ON VARIOUS BODIES

For the year 2014-15

Governing Body of Central Power Research Institute	Mr Vishnu Agarwal (President) DG or his representative
R&D Committee of Central Power Research Institute	Mr Mustafa Wajid DG or his representative
Development Council for Heavy Electrical & Allied Industries (DCHEAI)	Mr S Raj Sabapathy Mr Vishnu Agarwal DG or his representative
Governing Council of National Power Training Institute (NPTI)	Mr RK Chugh / Mr Harish Agarwal DG or his representative
Governing Body of Quality Council Of India	Mr Chaitanya Desai DG or his representative
Managing Committee of ERDA	Mr Vishnu Agarwal DG or his representative
Indian National Committee (INC IEC)	Mr Babu Babel DG or his representative
Governing Council of MSME-Technology: Development Centre	Mr Anil Saboo Mr Babu Babel DG or his representative
CII National Committee on 'Capital Goods & Engineering'	Mr Pitamber Shivnani DG or his representative
Advisory Board on Sectoral (M&E) – STQC Certification Services, Ministry of Communication & Inf. Technology	Mr Babu Babel DG or his representative
CII – ASCON	Mr Ajit Singh Chouhan (Vice-President) DG or his representative
Power Sector Skill Council – Central Electricity Authority	Mr RK Chugh DG or his representative
Mission Plan – IMG on Industry Competitiveness, Exports and Conversion of Latent Demand	Mr Sanjeev Sardana Mr Babu Babel DG or his representative
Mission Plan – IMG on Technology Upgradation and Skills Development	Mr Sanjeev Sardana Mr Babu Babel (Vice-President) DG or his representative
Technical Review Committee for All India Index of Industrial Production	Mr Vishnu Agarwal (President) DG or his representative



IEEMA Leadership

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REPORT OF THE EXECUTIVE COUNCIL TO THE MEMBERS

The Executive Council takes pleasure in submitting its report on the activities during the year along with the audited statement of accounts for the year ended 31 March 2015.

The following meetings of the Council were held in the year 2014-15

Meetings of the Council		
No.	Date	Venue
1	21 April 2014	Ahmedabad
2	12 June 2014	New Delhi
3	31 July 2014	New Delhi
4	26 August 2014	Mumbai
5	22 September 2014	Mumbai
6	1 November 2014	Bengaluru
7	17 December 2014	Mumbai
8	21 January 2015	Mumbai
9	12 March 2015	New Delhi

MEMBERSHIP

Ordinary Members

During the year, twenty-nine companies joined IEEMA as Ordinary Members. Six companies resigned and one member company merged with another member company. Details of the new members are as follows:

- 1 Alstom Transport India Limited
- 2 Bhumi Brass & Alloy
- 3 Bose Engineering (India) Pvt Ltd
- 4 Deepl Electricals Pvt Ltd
- 5 Emerson Industrial Automation Electric Power Generation P Ltd
- 6 EMT Megatherm Pvt Ltd (Upgraded to Ordinary Member)
- 7 Gala Shrink Fit
- 8 Hensel Electric India Pvt Ltd
- 9 I.P.L Products
- 10 Jainco Transmission Ltd
- 11 Lamer Power & Infrastructure Pvt Ltd
- 12 Lords Vanijya Pvt. Ltd.
- 13 Megger India Pvt Ltd
- 14 NLMK India Service Centre P Ltd
- 15 Omegga Power Industry Private Limited
- 16 Prime Cable Industries
- 17 Prime Meiden Limited

- 18 RTS Power Corporation Ltd (Upgraded to Ordinary Member)
- 19 Salzer Electronics Ltd
- 20 Scope T & M Pvt Ltd
- 21 Shiva Weld Mesh
- 22 Signotron (India) Pvt Ltd
- 23 Slimlites Electricals Pvt Ltd
- 24 Special Cables Pvt Ltd
- 25 Toshiba Transmission & Distribution Systems (India) P Ltd
- 26 Trafo Power & Electricals Pvt Ltd
- 27 Ujwal Electrical Stampings Pvt Ltd.
- 28 WEIR India Pvt. Ltd.,
- 29 Zera India P Ltd

The number of Ordinary Members at the end of the financial year stood at six hundred thirty-nine (639), a net addition of twenty-two (22) members.

Associate Members

During the year, thirteen companies joined IEEMA as Associate Members. Five companies discontinued their membership. Details of the new members are as follows:

- 1 Agnitio Technologies Pvt Ltd
- 2 ASP Private Limited
- 3 Digitouch Technologies Pvt Ltd
- 4 DK Energy Pvt Ltd
- 5 Howell Energy Systems Pvt Ltd
- 6 Inphase Power Technologies Private Limited
- 7 Shree Radhe Industries
- 8 Sona Engineering Equipment Mfg Co. Ltd
- 9 Step Industries Pvt Ltd
- 10 Subhash Kabini Power Corporation Limited
- 11 Temic Industrial Systems India Private Limited
- 12 Winding Wires Manufacturer's Association Of India
- 13 Zenith Industrial Rubber Products Pvt Ltd

At the end of the year, Associate Membership stood at one seventy-three (173), a net addition of eight members.

Membership Position

The total IEEMA membership at the end of the financial year stood at 812.

IEEMA – Annual Convention and 67th Annual General Meeting

The IEEMA Annual Convention with the theme '24x7 SMART electriCITY' was held on 22 September 2014 at Hotel ITC Maratha, Mumbai. Mr Venkaiah Naidu, Honourable Minister of Urban Development, Housing and Urban Poverty Alleviation, and Parliamentary Affairs, Govt. of India was the Chief Guest. In his speech he stated 'In the first 100 days of our government at the centre, power generation has increased by 22% for which I compliment my colleague, Piyush Goyal. But what is more important is to enable efficient transmission power. T&D losses in our country are reported to be at an unacceptable level of 27%'.

Mr Anil Swarup, Addl. Secretary, Cabinet Secretariat attended as a special guest. In his address he mentioned 'There are a large number of projects that have got moving. A number of clearances have been given. But what is most important is that the emphasis is now on improving the processes'.

He also said 'Co-ordination between states is an important aspect of our task. Having found that 50% of issues relate to states where projects are to be set

up, the department visits those states twice a week to co-ordinate approvals and if the latter required any Central assistance across ministries, it was taken up at adequate forums'.

The Convention was followed by the 67th IEEMA Annual General Meeting (AGM). Mr Raj Eswaran, President, IEEMA presented a report of the activities during the year.

Members observed one-minute silence as a mark of respect to the departed souls of Mr KN Shenoy, Past President - IEEMA and Dr GM Phadke, Ex-Director General of IEEMA.

IEEMA felicitated the following member companies who have been members of the Association for more than fifty years and presented a memento as a token of appreciation for their support:

1. **Hind Rectifiers Ltd**
2. **Hindusthan Vidut Products Limited**
3. **Kerala Electrical & Allied Engg Co. Ltd**
4. **Marathon Electric India Private Ltd.**
5. **Senapathy Whiteley Pvt. Ltd**
6. **Universal Cables Limited**

IEEMA also recognised the long and dedicated service of Mr Jyotish Pande to the Association of over twenty-five years and presented a memento as token of appreciation.

A memento was presented to the President Mr Raj Eswaran on behalf of the Executive Council and members of the Association in appreciation of his services to IEEMA and the Electrical and Electronics Industry.

He was also presented with a photo album of memoirs of the 'year gone by'. Mr Vishnu Agarwal, President-Elect shared his experiences of working with Mr Raj Eswaran.



L to R: Mr AS Chouhan, Vice President, IEEMA, Mr Raj Eswaran, immediate Past President, IEEMA, Mr Venkaiah Naidu, Minister of Urban Development, Housing and Urban Poverty Alleviation, and Parliamentary Affairs, Govt. of India, Mr Vishnu Agarwal, President, IEEMA, Mr Anil Swarup, Secretary, Ministry of Coal, Gol and Mr Babu Babel, Vice President, IEEMA

IEEMA Executive Council Meetings

The Executive Council (EC) met on nine occasions during the year 2014-15.

In its first meeting held on 21 April 2014, the council held discussions about IEEMA Membership from educational institutions and decided that the same will be finalised in the AGM scheduled in September 2014.

The Council discussed issues pertaining to 'Standard Bidding Document for Turnkey Contracts' and opined that a consulting firm having expertise in the legal aspects of such contractual matters be engaged. Mr Vikas Jalan was assigned to head the Committee and prepare the contract document for equipment purchase.

Members appreciated the acceptance of the code of ethical conduct for EC members and advised the Secretariat that the same may be presented in all the divisional meetings and feedback can be taken for review by Council members.

The Council discussed and decided that the 67th Annual General Meeting of IEEMA on 22 September 2014 will be held at Mumbai and will be delinked from the Annual Convention. It was suggested that the convention could be planned at Delhi with initiation of 'Dr Ramanujam Series' by inviting marquee and globally renowned speakers. It was also decided that along with the AGM at Mumbai, a half-day event would be organised on the subject of creating one crore employment opportunities in the Electrical Industry over the next ten years.

Members congratulated Mr Aaditya Dhoot, for being selected as Chairman of the Organising Committee for ELECRAMA-2016.

Members welcomed the 'membership outreach initiative'. They suggested that since IEEMA is striving to become more relevant for its members, it should explore expanding the scope of IEEMA and ELECRAMA beyond the utilities to other areas including the low-voltage segment. They requested Mr Shreegopal Kabra, one of the Council members, to prepare and present a white paper on what IEEMA should do to

expand its scope in these areas to increase relevance for its members.

With regard to the 'utility outreach initiative', Mr Vishnu Agarwal, Vice-President, suggested that IEEMA should take adequate steps to ensure that we do not repeat the programme conducted by CPRI. He also suggested that Mr Nagrani visit the CPRI facility and meet their training team to understand the initiative better.

The Council also proposed to have IEEMA offices at Bhubaneswar, Chandigarh, Chennai, Guwahati, Lucknow, Srinagar and Vadodara.

Members also discussed PGCIL activities, reverse auction and advised the Public Policy Cell to analyse the matter.

The second meeting was held on 12 June 2014. The Council appreciated the efforts put in by the Secretariat towards the success of the new initiative of interaction with Members of Parliaments which was organised on 10 June 2014. The dates and venue of ELECRAMA-2016 were finalised as 13 to 17 February 2016 at the Bengaluru International Exhibition Centre, Bengaluru. It was also decided to organise a symposium during INTELECT 2015 in collaboration with IEEE.

The Secretariat provided information about the PVC Calculator being made available online from end-August for testing and will be formally launched in September 2014. A payment gateway would also be made available for an authentic printout of PVC calculations and other payments to IEEMA.



The Council was informed regarding the appointment of resident representatives for North-Eastern States based at Guwahati and for Chhattisgarh, Madhya Pradesh, Jharkhand and Bihar based at Raipur.

During the EC meeting Mr. Ravi Capoor, Jt. Secretary, Department of Commerce, Ministry of Commerce & Industry, Govt. of India addressed the Council Members.

The third meeting was held on 31 July 2014 where members were briefed by the Secretariat about the comprehensive list of top officials working in the field of smart electricity, creation of an online PV calculator, CEOs' Round Table on 'Empowering 100 Smart cities' and also about IEEMA Residential Representatives.

Other issues discussed included organising the IEEMA 67th AGM and Annual Convention on 22 September 2014 at Mumbai. The Council was also briefed by the Secretariat about Brand India Engineering and the PMO instructions for monitoring imports and adopting suitable strategies. The Council also discussed and deliberated at length on the necessary engagement with PGCIL regarding reverse auction issues and decided to hire the services of a consultant recognised by the Ministry of Power and PGCIL for study of the process.

The Head of Corporate Communications made a presentation on the proposed IEEMA website.

The fourth meeting of the Executive Council was held on 26 August 2014 at Mumbai to approve the Accounts for the year 2013-14. Members also discussed and approved a seed capital of Rs. 40 lakhs for the proposed project of iSME for a period of 12 months.

The fifth meeting of the Executive Council was held on 22 September 2014 coinciding with the AGM and Annual Convention at Mumbai. The Council ratified the proposed names of Co-opted Members and Standing Invitees. During the meeting, members talked about the divisional chairmen and vice-chairmen and the activities of divisions. Members suggested reviewing inactive divisions and exploring options of merging non-functional divisions with active product divisions having a similar line of interest and activity. Discussions were also held regarding regional committees and it was suggested that regular assessment of their activities including performance and output of regional representatives be reported to the Council.

During the meeting, the Secretariat presented the growth of the first quarter of the financial year 2015 vis-a-vis financial year 2014 along with EXIM data. Mr Uma Shankar, Former Power Secretary, Govt. of India suggested that members be prepared on all the parameters like cost, competitiveness, delivery, etc. while addressing issues on imports to the government. Members brought out that the electrical equipment sector is generally kept on the negative list by banks which is one of the causes for lack of competitiveness. He also mentioned that the domestic industry stands at a disadvantage with respect to foreign bidders in case of ICBs, since the domestic bidders have to offer prices in INR but the foreign bidders quote in USD.

The Chairman of the organising committee briefed members about the status of the INTELECT 2015 and Upto 11kV show and appealed to members for ideas on promotion, besides urging them to support.

The sixth meeting of the Executive Council was held on 1 November 2014 in which the Council Members discussed the need for the industry to be united on major issues, to come out with commercially viable proposals on which the government can act and support, for improvement in the export basket for sustainable business, and also for conformance of acceptability of Indian quality globally. Members also felt the need to come out with a short-term (for one year), medium-term (for two years) and long-term (for five years) strategy and wish list for the industry.

During the meeting the Secretariat presented the overall status and revised budget with expected booking of approximately 3000 sq. m. for INTELECT 2015 and Upto 11kV shows. Members also noted that the Ministry of Power has extended support to both INTELECT and Upto 11kV Exhibition. Besides, IEEMA was also included on the Power Distribution Reforms Committee.

During the meeting the Vice-President made a presentation about the structure and functioning of IEEMA Divisions, guidelines on issues, and responsibilities of the Chairman and Vice-Chairman and the Executive Council approved the same.

The Council also discussed and approved the appointment of a Consultant for implementing Brand India Engineering.

The Council also discussed and decided to adopt 2/3 villages/ districts/small cities close by or in a cluster where a commitment of building 100 toilets by IEEMA members could be given to the government. This was in response to the government's call of 'Swachh Bharat' initiative.

Mr Shiva Kumar, Honourable Minister for Energy, Government of Karnataka and Mr S Sumanth, Director (Transmission), KPTCL interacted with Council members and assured complete support for organisation of ELECRAMA-2016 at Bengaluru.

The seventh meeting of the Executive Council was held on 17 December 2014 in which the Chairmen of all Divisions /Committees/ Cells were invited to be part of the Executive Council as Standing Invitees.

The Secretariat reported that the IEEMA PV calculator tool via www.pvcalculator.IEEMA.org was tested and ready for operation. A detailed discussion on furthering the interests of members, with special emphasis on Small and Medium Enterprises (SMEs) was taken up. It was decided to create a new division for SMEs. This division besides focusing on the barriers, would also enable creation of expert panellists, policy initiation and steer change.

Mr Shah Nawaz Ali, Pan IIT Alumni Reach For India (PARFI) made a presentation on Vocational Training Skill Development efforts in rural areas in conjunction with large corporates and associations. The presentation emphasised on the existing gap identification and skill development of local youth in a functional demography.

Ms Rumjhum Chatterjee and Mr Ajay Sinha from Feedback Foundation made a presentation on a mission to eliminate the open-toilet system. They briefed members on various success stories of motivating communities to build and operate toilets and eliminate open defecation without any government subsidies through a nine-month vigorous scientific stepwise programme conceived by them and appealed to members to adopt a village or an area of the city for this noble cause. The presentation emphasised the requirement of psychological change to successfully adopt the programme.

Deloitte has been engaged as 'Consultant' for Brand India Engineering. Mr Anujesh from Deloitte made a presentation on the concept of Brand India Engineering.

The eighth meeting of the Executive Council was held on 21 January 2015. During a briefing to the members regarding the 'Make in India' workshop organized by the Govt. of India, Department of Heavy Industry, the President informed that the following four-point agenda submitted by IEEMA was received and admitted by the Ministry.

1. Tenders against domestically funded projects to be limited to national competitive specifications for bidding.
2. Mandatory vendor development program by Utilities.
3. Mandatory testing of all Imported Electrical Equipment in Indian labs (non-tested at origin).
4. Standardise equipment across all Utilities.

The proposal of the revival of the Winding Wire Division was discussed; members welcomed the proposal and decided to revive the division. Mr Shreegopal Kabra will be leading this division and ensuring that the division works and fulfils the guidelines approved for the division.

Members deliberated on the topic of non-acceptance of test reports other than CPRI by KPTCL and suggested making a suitable representation to KPTCL and arranging for a meeting of ERDA with top officials of KPTCL.

Members discussed and deliberated on the issue of reverse auction being adopted by PGCIL and other private utilities. A sub-committee was set up to prepare an analysis report.

The ninth meeting of the Executive Council was held on 12 March 2015. During the meeting members were briefed on Membership Connect and utility outreach, towards which the members suggested that utility outreach programmes should coincide with Executive Council Meetings so that they can participate and meet the state government representatives to add value and significance.

The members were also briefed about the 'Make in India' campaign wherein the President informed them about regular interactions being held with the Ministry of Power. He also informed them about the issues discussed such as regular updates of import-export statistics in order to address issues pertaining to 'Make in India'. Members of Parliament who had extended their

support during their interactions with IEEMA members should be approached with crisp and clear briefs, and a continuous engagement should be maintained.

Also, during a briefing regarding IEEMA Institutional Membership, the members deliberated on the significant value addition that needs to be projected to promote this activity in the form of industry interface, access to factories providing internship opportunities, and absorption of deserving students. The Council decided to take up two activities, firstly, complimentary internship in the industry/factory unit and secondly, absorption of top student talent by the industry.

A presentation was made by Mr Arun Kumar Jha, DG, NIESBUD about various schemes undertaken by the Ministry of MSME, their benefits and processes. He also briefed them on the concept of a facilitation council for MSME towards resolution of issues pertaining to delayed payment and provision of procurement preferences for MSMEs in the MSME Act, which will be implemented shortly.

Mr Vinod Behari, CEO, PSSC interacted with members and requested the industry to share skill development concerns, current and future skill requirement and job roles to prepare a national skill standard for the power sector including electrical equipment manufacturers.

An interactive Session was held after the Executive Council meeting with Honourable Members of Parliament and Members of the Delhi Legislative Assembly on 'One Mission – Electricity for All'.



GOVERNMENT INTERFACE

Interface with the 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 proactively engaged with them on issues of concern and challenges faced by the Indian electrical equipment industry.

Indian Electrical Equipment Industry Mission Plan 2012–2022

The Department of Heavy Industry (DHI), Government of India, with support from IEEMA and various stakeholders developed the Indian Electrical Equipment Industry Mission Plan 2012–2022, with a view to support the domestic electrical equipment industry's future development and enhance its global competitiveness.

Launched in 2013, the Mission Plan envisages making India the country of choice for the production of electrical equipment and reaching an output of USD 100 billion by balancing imports and exports. The Mission Plan seeks to steer, coordinate and synergise the efforts of all stakeholders to accelerate and sustain the growth of the domestic electrical equipment industry.

Post launch of the Mission Plan, DHI had set up two Inter-Ministerial Groups (IMGs) to formulate a cogent and common approach to deal with the various recommended interventions under the key areas.

Three meetings of the IMGs were held on 28 October 2013, 22 April 2014 and 20 February 2015, which deliberated on several issues and decided on action points in the areas of establishing a level playing field, focusing on international standardisation, testing facilities, standardisation of product ratings and specifications, equitable contract conditions, transaction costs in exports, industry initiatives, funds availability and long-term buyer's credit, technical barriers to exports, studies to be conducted, expert committee on R&D for electrical equipment industry, nuclear power plants, skills development, encouraging innovation by students, etc. Actions have been initiated on several fronts.

Several meetings were also held during the course of the year with Dr Rajan Katoch, Secretary; Mr Ambuj Sharma, Additional Secretary; Mr RK Singh, Joint Secretary; Mr KK Tiwari, Industrial Adviser, Ms Sanyukta Samaddar, Director, and other officials of DHI in this regard.

REGIONAL ACTIVITIES

DELHI

Meetings

Numerous meetings took place with various officials across different Ministries and Departments of the Government of India during the year. A summary of the significant meetings is given below:

Meetings on 'Make in India'

IEEMA officials participated in preparatory meetings for the National Workshop on 'Make in India' on 22 December and 24 December 2014. The National Workshop was chaired by the Honourable Prime Minister of India. The preparatory meeting was conducted by Mr Pradeep Kumar Sinha, Secretary, Ministry of Power, Government of India. The objective of the meeting was to deliberate on short-term as well as long-term strategies and goals for 'Make in India'. IEEMA represented to the Power Ministry a Four-Point Agenda for the development of power/ electrical equipment sector.

On 29 December 2014, Mr Vishnu Agarwal, President; Mr Babu Babel, Vice-President and Mr Sunil Misra, Director General, IEEMA, attended the National Workshop on 'Make in India', which was spearheaded by the Honourable Prime Minister of India. Before the

meeting, IEEMA also participated in a sectoral workshop with the Ministry of Power, where the four-point agenda recommended by IEEMA for 'Make in India' was accepted by the Ministry of Power and included in the final presentation made before the Honourable Prime Minister of India.

Later, on 24 February and on 24 March 2015, IEEMA officials also attended follow-up meetings with the Ministry of Power on the 'Make in India' Workshop, and discussed the short-term initiatives indicated in the outcome document of 'Make in India'. The meetings were conducted under the Chairmanship of Mr Devendra Chaudhry, Special Secretary, Ministry of Power.

The issues of product-wise capacity utilisation of the domestic electrical equipment industry, orders which had gone to Chinese suppliers during the last three years, identification of the areas of competitiveness for domestic manufacturers vis-à-vis foreign manufacturers, vendor development initiatives, and mechanism to extend 'supplier credit' to Indian manufacturers similar to the Chinese/US Model for exports were deliberated upon.

The other important point discussed was defining transparent criteria to include 'economic value', instead of L1 in Public Procurement Policy.

Meetings on the Hannover Messe Exhibition

IEEMA officials attended the preparatory meetings conducted by the DHI, Government of India, on participation of India as 'partner country' in the Hannover Messe 2015 Exhibition. Meetings in this regard were held under the Chairmanship of Dr Rajan S Katoch, Secretary, Department of Heavy Industry, on 30 October 2014 and 16 February 2015. Another meeting was held on 12 January 2015 under the Chairmanship of Mr Vishwajit Sahay, Joint Secretary, to finalise the design and theme of the DHI Pavilion and location of participating organisations. IEEMA participated in the DHI Pavilion and also took an area for its members at a subsidised rate in the Energy Pavilion of Hannover Messe. IEEMA office-bearers were also part of the Prime Ministerial delegation visiting the exhibition.

IEEMA signed a Memorandum of Understanding with ZVEI and European Business and Technology Centre (EBTC) in the presence of Smt Nirmala Sitharaman, Honourable Minister of State for Industry and Commerce, Government of India, at the Exhibition.



Later, on 31 March 2015, IEEMA officials had a meeting with the EBTC to discuss future working collaboration.

Electro-Technical Division Meetings of Bureau of Indian Standards

IEEMA officials attended the meeting of ET-33 of the Bureau of Indian Standards (BIS) on winding wires, on 25 February 2015. The meeting was chaired by Dr J Sundara Rajan of the Central Power Research Institute. Issues regarding BIS license were taken up in the meeting.

On 18 December 2014, IEEMA officials attended the meeting of ET-22 of the Bureau of Indian Standards on Electrical Apparatus for Explosive Atmospheres Sectional Committee. Pendency of Indian Standards lying under printing was discussed in the meeting.

Meeting on Remote Monitoring of Distribution Transformers

IEEMA Transformer Division Members, led by Mr Vikrant Joshi, attended a meeting with the Rural Electrification Corporation on 4 March 2015, regarding remote monitoring of distribution transformers. The meeting aimed at ensuring optimal/least cost IT-based solutions for new transformers and retrofitting in existing transformers. The meeting was chaired by Mr PJ Thakkar, Director (Tech), REC, in the presence of Mr SK Gupta, Executive Director, REC. The meeting was also attended by representatives of PFC, PGCIL, EME (Army) and TPDDL.

Meeting on Implementation of the Central Electricity Authority Regulations

A delegation of IEEMA Transformers Division, led by its Chairman, Mr B Ukil, attended a meeting at the Central Electricity Authority (CEA), on 13 March 2015, regarding implementation of CEA regulations. The meeting was chaired by Mr Major Singh, Chairperson (I/C), CEA. Discussions were held to address problems arising in the implementation of the CEA regulations notified in the Gazette of India, dated 20 August 2010. Mr KK Arya, Chief Engineer, CEA and representatives of various utilities and PSUs/CPSUs like NTPC, Power Grid, NHPC, BBMB, UPPCL, WBSIEDCL, APTRANSCO, TNEB, KPTCL, CPRI and NHPTL were present at the meeting.

Meeting on Global Investors' Meet

IEEMA officials attended a meeting called by Mr Pankaj Batra, Chief Engineer, CEA, on 17 March 2015, to discuss organising a Global Investors' Meet to promote 'Make in India' in the electrical equipment sector. A preliminary discussion on the subject was held with Mr Major Singh, Chairperson (I/C), CEA on the modalities and requirements for organising this meet.

Meetings on CRGO Steel

Mr Rajesh Kumar Singh, Joint Secretary, Department of Heavy Industry, Government of India, called a meeting on 27 January 2015, to understand from IEEMA the difficulties faced by the Indian transformer manufacturing industry while importing CRGO Steel and the possibility of indigenous manufacturing of this critical raw material.

Earlier, on 31 October 2014, IEEMA officials participated in a meeting chaired by Mr Ambuj Sharma, Additional Secretary, DHI, on Steel and Steel Products Quality Control (Second) Order 2012 and its issues with CRGO Steel.

Meetings of Joint Working Groups and Forums

On 3 February 2015, IEEMA officials attended a preparatory meeting of the Indo-German Energy Forum, under the Chairmanship of Mr Satish Kumar, Joint Secretary, Ministry of Power, Government of India. The Forum aims at promoting co-operation between India and Germany in energy security, energy conservation, renewable energy, investments in energy projects, and collaborative research and development.

Later, Mr Pradeep Kumar Sinha, Secretary, Ministry of Power, co-chaired the Forum as a representative of the Indian Government on 13 February 2015. Meetings of five sub-groups on efficiency enhancement in fossil fuel-based power plants; renewable energies; demand-side energy efficiency and low carbon growth strategies; research cooperation in energy sector; and green energy corridors, were also held during the day.

IEEMA officials attended a meeting on 7 August 2014, convened by the DHI, Government of India, to decide the agenda of the Indo-Czech Joint Working Group Meeting on Heavy Industry and Advanced Manufacturing Technology. On 5 September 2014, a preparatory meeting was conducted for the Indo-Czech

Joint Working Group for visiting the Czech Republic from 22 to 25, September 2014.

On 8 July 2014, an Inter-Ministerial/Stakeholders Meeting was convened under the chairmanship of Mr Rajeev Kher, Commerce Secretary, Government of India, on the Strategy to Strengthen India's Economic Engagement with Cambodia, Laos, Myanmar and Vietnam. IEEMA officials attended the same.

Meetings on Capital Goods

On 26 November 2014, IEEMA officials attended a meeting with the Department of Heavy Industry, Government of India, on the enhancement of competitiveness of the capital goods sector. The Department of Heavy Industry had invited technical institutes from all over the country to make presentations on their proposals related to this subject.

On 18 February 2015, IEEMA officials attended a meeting chaired by Mr Vishwajit Sahay, Joint Secretary, DHI, Government of India, on the formation of a joint task force for the capital goods sector.

IEEMA officials participated in an interactive meeting with Dr Rajan S Katoch, Secretary, DHI, Government of India, on 17 September 2014, regarding the status and difficulties of the Indian capital goods sector.

IEEMA officials attended a meeting, on 30 October 2014, with Mr Sushil Lakra, Industrial Advisor, Department of Heavy Industry, Government of India, regarding drafting of public purchase policy for the Indian capital goods sector.

Meeting with the World Bank

Senior members of IEEMA had a consultative meeting with the World Bank, on 7 January 2015, regarding procurement policy and participation of Indian suppliers in World Bank-funded projects.

Meetings on Brand India Engineering

'Indian Engineering' was planned as a brand exercise by the Government of India to improve the overall perception of Indian engineering products globally. Mr Ravi Kapoor, Joint Secretary, Department of Commerce, Government of India, had called several meetings in this regard on 23 June and 15 September 2014 and again on 15 September and 30 September 2015, to finalise the products and countries for promotion of electrical equipment.

Meetings on Regional Comprehensive Economic Partnership

A comprehensive free trade agreement, namely, the Regional Comprehensive Economic Partnership (RCEP) is under negotiation between ten member nations of ASEAN (viz. Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam) and their six FTA partner countries (viz. Australia, China, India, Japan, Korea and New Zealand). The Department of Commerce had been consulting IEEMA and other industry stakeholders in this regard.

IEEMA officials attended a series of industry consultations on cumulative value addition and product-specific rules under RCEP on 27 August, 15 October, 1 December 2014 and on 9 January 2015; which were chaired by Mr JS Deepak, Additional Secretary and Mr Sumanta Choudhury, Joint Secretary, Department of Commerce, respectively. IEEMA officials represented the issues of the industry on this subject viz. under-utilisation of the capacities of the domestic industry, lack of a level playing field vis-à-vis imports, non-tariff and technical barriers in RCEP countries, etc.

IEEMA officials attended another meeting on 27 August 2014 on RCEP, under the Chairmanship of Mr Ambuj Sharma, Additional Secretary, DHI, Government of India.

Pre-Budget Meetings

A delegation of the Economic and Taxation Committee Members, led by its then Vice-Chairman, Mr P Ramakrishnan, had a pre-budget meeting on 22 May 2014 for Budget 2014-15, with officials of the Ministry of Finance, Government of India.

On 25 November 2014, a delegation of the Committee, led by the Vice-Chairman, had a meeting on Budget 2015-16 with the Chairman, Central Board of Excise & Customs (CBEC), Ministry of Finance, Government of India, in the presence of other senior officials of CBEC and CBDT. IEEMA also made a power point presentation on the core budget issues of the industry on indirect and direct taxes.

On 8 December 2014, a delegation of the Committee members, led by its former Chairman, Mr GS Sharma, had a pre-budget meeting with the Department of Industrial Policy and Promotion, Government of India.

Meeting with the Government of Uttar Pradesh

Mr Vishnu Agarwal, President and Mr Sunil Misra, Director General, met Mr Alok Ranjan, Chief Secretary and Infrastructure & Industrial Development Commissioner, Government of Uttar Pradesh, on 2 December 2014, to discuss the possibility of a CPRI laboratory in Uttar Pradesh, development of electrical equipment cluster and energy efficiency.

Interactive Session with Members of Parliament and Members of the Legislative Assembly of Delhi

On 3 December 2014 and 12 March 2015, IEEMA organised interactive sessions with the Honourable Members of Parliament (MPs) on 'Electricity – Challenges & Opportunities'. Most of the MPs invited were members of the Parliamentary Standing Committee on Energy. Many of them expressed interest in taking up issues faced by the electrical equipment industry.

Meetings on Non-Essential Imports from China

The Government of India took cognizance of escalating imports into India from China and other countries. The DHI, Government of India, called a series of meetings in this regard inviting trade and associations to deliberate on the tariff lines which had seen a surge in imports over the past few years.

IEEMA officials attended meetings on 1 July and 28 August 2014, chaired by Mr Ambuj Sharma, Additional Secretary. Industry associations were asked to submit a note on imports from China, nature of intervention required to address it (import duty, safeguard/anti-dumping duty, standards, etc.), and a list of non-essential import items.

IEEMA responded to the DHI on the above, also expressing that the domestic industry has enough capacity to cater to the domestic demand.

Similar meetings were also conducted by Mr Rajesh Kumar Singh, Joint Secretary, Department of Heavy Industry, on 11 December 2014 and by Smt Jyoti Arora, Joint Secretary (Transmission), Ministry of Power, which were attended by IEEMA officials. In the meetings there was a discussion on reducing dependence on imports.

Meeting on Centre of Excellence for R&D

IEEMA officials, along with other senior officials of ERDA, met Mr Ambuj Sharma, Additional Secretary, Department of Heavy Industry, Government of India, on 15 December 2014, regarding a project to establish a Centre of Excellence for R&D in medium voltage switchgear and transformers. A presentation was made by ERDA apprising the Additional Secretary on the proposed project and seeking his advice and guidance.

Meeting on Status of the Indian Electrical Equipment Industry

IEEMA officials participated in a meeting on 23 December 2014, with Mr Rajesh Kumar Singh, Joint Secretary and Smt Sanyukta Samaddar, Director, Department of Heavy Industry, Government of India, on the status, issues and recommendations of the Indian electrical equipment industry.

Meetings on Distribution Reforms

On 29 October 2014, IEEMA officials had a meeting with Mr Pradeep Kumar Sinha, Secretary, Ministry of Power, Government of India, to discuss distribution reforms. Another meeting was held with Mr RN Choubey, Additional Secretary, Ministry of Power, on 30 October 2014, on the same subject.

Meeting on Energy Efficiency and Future Partnership with BEE

IEEMA officials called on Mr Ajay Mathur, Director General, Bureau of Energy Efficiency, on 29 October 2014, to discuss energy efficiency and the possibility of future partnership with BEE.

Meetings on Standard Bidding Document

A delegation of the T&D Projects Division, led by its Chairman, Mr Somesh Sehgal, met Mr Devendra Chaudhry, Additional Secretary, Ministry of Power, Government of India, on 18 June 2014, to discuss the standard bidding document for EPC contracts, which was prepared and submitted by the T&D Projects Division of IEEMA.

Later, on 20 November 2014, IEEMA officials called on Mr Pratap Kumar, GM (Contracts), Powergrid, regarding this contract document.

Meetings on Safeguards and Anti-Dumping Duty

IEEMA officials attended a public hearing on 3 July 2014, called by the Director General (Safeguards) regarding a petition by aluminium manufacturers to impose safeguards duty on imports of Not Alloyed Ingots of Unwrought Aluminium into India.

On 17 October 2014, IEEMA officials attended another public hearing on an Anti-Dumping petition on imports of insulators from China.

Meetings with Diplomatic Missions

On 7 July 2014, IEEMA officials met Ms Alice Aku Otuteye, Deputy High Commissioner of Ghana, to discuss bilateral business cooperation between India and Ghana.

IEEMA officials called on Ms Judith N Ngunia, Counsellor (Political), Kenya High Commission, on 8 August 2014, to discuss a proposed IEEMA business delegation to Kenya.

On 9 September 2014, IEEMA officials had a meeting with Mr Muramira Nick Chiles, Third Secretary, Trade and Investment, Uganda High Commission, to discuss a proposed IEEMA business delegation to Uganda.

IEEMA officials met HE Mr Aung Khin Soe, Ambassador of Myanmar, Embassy of Myanmar, on 17 June 2014, to discuss bilateral business cooperation between India and Myanmar. Mr Zaw Nyunt, Economic Attaché, was also present in the meeting.

Meeting on Inverted Duty Structure

Tariff Commission, Ministry of Commerce & Industry, had been entrusted by the National Manufacturing Competitiveness Council to study the inverted duty structure of various products impacting the manufacturing sector. IEEMA officials attended a meeting convened by the Tariff Commission on the subject on 12 August 2014, which was chaired by Smt Smita Chugh, Member Secretary. IEEMA highlighted the instances of inverted duty structure faced by the domestic electrical equipment industry and also submitted a detailed note on inverted duties and anomalies faced by the domestic electrical equipment manufacturing sector, as reported by members.

Meeting on Mandatory BIS Certification

Chairman of IEEMA Capacitors Division, Dr Raghavan

Venkatesh, called on Mr Shailendra Singh, Joint Secretary, Department of Industrial Policy and Promotion, Government of India, on 26 September 2014, to discuss Mandatory Standards for fifteen products comprising Cables and Capacitors.

Meeting with the National Manufacturing Competitiveness Council

On 13 October 2014, Mr Vishnu Agarwal, President and Mr Sunil Misra, Director General, IEEMA, called on Mr Ajay Shankar, Member Secretary, National Manufacturing Competitiveness Council to discuss the status and issues of the domestic transformer manufacturing industry.

Meeting on SCADA DMS Projects

Mr Vishnu Agarwal, President and Mr Sunil Misra, Director General, met Mr BN Sharma, Joint Secretary (Distribution), Ministry of Power, Government of India, on 13 October 2014, regarding SCADA DMS Projects under R-APDRP.

Meeting on Swachh Bharat

On 14 October 2014, IEEMA officials attended a conference headed by Smt Smriti Zubin Irani, Honourable Minister for Human Resources Development, Government of India, on Swachh Bharat – Swachh Vidyalaya Abhiyan.

Meeting with FIEO

IEEMA officials had a meeting with Mr Ajay Sahai, Director General and CEO, Federation of Indian Export Organisations, on 17 October 2014, and discussed issues of bilateral interests.

Meeting on MAI

On 20 October 2014, IEEMA officials attended a meeting of the Empowered Committee on Market Access Initiative Scheme under the Department of Commerce, Government of India. The meeting was chaired by Mr Rajeev Kher, Commerce Secretary, in the presence of Mr Arvind Mehta, Mr Sumanta Chaudhuri and Mr Sudhanshu Pandey, Joint Secretaries.

Meeting on Reverse Auction

IEEMA officials had a meeting with Mr SK Ray Mohapatra, Director, Central Electricity Authority, on 20 October 2014, regarding the Reverse Auction mechanism followed by utilities.

Meeting with Delhi Development Authority

On 5 May 2014, IEEMA officials met Mr Balwinder Kumar, Vice-Chairman, Delhi Development Authority, to discuss the procedure of land allocation by DDA to Industry bodies.

Meeting with Member of Parliament

On 5 May 2014, IEEMA officials met Mr Tarun Vijay, Member of Parliament (Rajya Sabha) to discuss the issues of the electrical equipment sector.

Meetings on Power Sector Skill Council

IEEMA officials attended a meeting on 24 January 2014, which was convened by Smt Neerja Mathur, Chairperson, Central Electricity Authority, to finalise the constitution of the Governing Body of Power Sector Skill Council (PSSC) and to decide the promoters' / industry's contribution to the initial corpus of funds for PSSC.

IEEMA officials attended another meeting of PSSC, on 16 June 2014. The meeting was attended by senior officials of the Central Electricity Authority and Central Board of Irrigation & Power.

MUMBAI

5 December 2014, Mr KC Purohit, CMD, NPCIL

The meeting was mainly to introduce IEEMA and invite him for the INTELECT 2015 exhibition. During the interaction various points such as scaling up the product line and quality readiness to address NPCIL requirements. The innovations and technical advancements used by NPCIL in the energy sector were discussed and the CMD agreed to speak to members on an appropriate occasion.

13 January 2015, Mr Subhash Desai, Honourable Minister for Industries, Government of Maharashtra

The meeting was mainly to introduce IEEMA and invite him for the INTELECT 2015 exhibition. During the meeting, the Minister emphasised on creating a vendor development cluster, helping activities in 'Make in Maharashtra Programme' and future prospects and ways ahead on how IEEMA membership can help the Department of Industries to create a common facilities centre under this cluster development.

14 January 2015, Smt Chandra Iyengar, Chairperson, Maharashtra Electricity Regulatory Commission (MERC)

The meeting was to discuss distribution losses and tariff structure impacting our member interests and technological innovations to reduce these losses. She emphasised on solid waste management, renewable energy and efficient use of natural resources in conceptualising future conferences and exhibitions of IEEMA.

4 March 2015, Mr Mukesh Khullar, IAS (1985), Principal Secretary – Energy – Government of Maharashtra

The meeting was mainly to introduce IEEMA to the principal secretary. The interactions worked around discussing scaling up the product line, quality readiness to address the distribution losses, human losses, security, energy conservation, energy efficiency, innovations, technical advancement and the best practices used in the power sector worldwide.

Public Policy Cell – It should engage with newly formed governments and newly appointed bureaucrats with a ready reckoner on pain, pleasure, analysed data, ways ahead, alignment to policy thought process, be neutral, become the spokesperson and remain engaged on a quarterly basis. In fact he was very keen to meet our think tank at the earliest with an analysed report on the following lines: production capacity of existing facilities, transmission losses, accidents, factors affecting per MW cost for the consumer, how the industry can improve consumer satisfaction and reduce T&D losses, immediate steps with the government's declarations in the backdrop; but all with quantified data.

IEEMA as a government advisory body. Monthly analysis of power situations, energy solutions, renewable, industry indulgence and involvement in a nutshell. He was keen to have a think tank from within the industry leaders as advisory to the department and in addition a monthly/quarterly non-technical actionable newsletter that could be agency-neutral but addressing concerns of all stakeholders.

He agreed to be there for the next Utility Outreach Programme in Maharashtra.

30 March 2015, Dr Jagdish Patil, GM, Brihan Mumbai Electric Supply & Transport Undertaking (BEST)

The meeting was mainly to introduce IEEMA to the new GM of BEST. The interactions were to understand each

other's mutual interests and how IEEMA membership can help BEST. Cdr. Sinha informed Dr Patil about IEEMA's various new initiatives and how IEEMA is working closely with the government and private utilities. He also informed Dr Patil about IEEMA's 'Empowering Make in India' programme and requested his presence at the programme which was tentatively scheduled for May/June. Dr Patil gave his consent to be part of this programme whenever planned in Mumbai.

KOLKATA

Meetings of the Eastern Region Committee

The Chairman ERC, Mr Bhaskar Sen welcomed Mr Mustafa Wajid - Executive Council Member IEEMA, Mr Sekhar Sanyal - IET Country Head and other members to the first ERC Meeting of 2014-15. The meeting took place in Kolkata on 25 April 2014 at Tata Steel Room, The Bengal Chamber of Commerce and Industry. The meeting started with a presentation by Mr Mahajan on INTELECT. It was followed by two more presentations, first by Mr Mustafa Wajid - Executive Council Member IEEMA on 'IEEMA & IET' collaboration, and second by Mr Anit Ghose - Supreme & Co. Pvt. Ltd on 'Geo-Energy'. The presentations were highly appreciated by all members.

The Vice-Chairman ERC, Mr RK Shah welcomed the members to the second ERC Meeting of 2014-15. The meeting took place in Kolkata on 25 July 2014 at Tata Steel Room, The Bengal Chamber of Commerce and Industry. The meeting started with a presentation on Mission Plan-2012-2022. It was followed by a presentation made by Mr Pramod Kr Thakur of PwC on Investment Planned by Power Utilities in Eastern Region. Mr Harish Agarwal - Chief Convenor ER Summit 2015 briefed the Members about preparation for the Summit which will be held in Guwahati in April 2015. The presentations were highly appreciated by all members.

The Chairman ERC, Mr Bhaskar Sen welcomed the members to the third ERC Meeting of 2014-15. The meeting took place in Kolkata on 26 September 2014, at Tata Steel Room, The Bengal Chamber of Commerce and Industry. The meeting started with a presentation on 'Upto 11kV show'. It was followed by an update on the upcoming ER Summit - 'Konnnect North-East & beyond'.

Vice-Chairman ERC, Mr RK Shah welcomed the members to the fourth ERC Meeting of 2014-15. The meeting took place in Kolkata on 20 February 2015, at Tata Steel Room, The Bengal Chamber of Commerce and Industry. Members were updated regarding forthcoming ELECRAMA- 2016 online booking and payment procedures and its advantages for them. It was followed by the update on the upcoming ER Summit - 'Konnnect North-East & Beyond'.

JAMMU & KASHMIR

Industry Research & Data collection

► Capitalised on market research and collected contact details of concerned officials, members and non-members in industries and power in the State of Jammu & Kashmir (J&K). Held meetings with members and non-members in the region. Visited different Industrial Estates in the State and collected important contact information of Managing Directors and CEOs of the concerned electrical equipment manufacturers in J&K. Ensured wide publicity for IEEMA through the local newspapers. Collected important details of the concerned higher-ups in Utility and government concerned. Most importantly I collected contact details of power bureaucrats in the state through continuous follow-up with the officials in Civil Secretariat in Jammu over mail and telephonic conversations. This gave me an impetus in getting the right information related to government officials dealing with industries and power in the state of J&K.

Meetings with Members & Non-Members

- Director (ALBA POWER) - Existing Member of IEEMA from Srinagar - Visited and introduced him as Resident Representative for J&K State and discussed the services of IEEMA with him.
- Industrial Estate Rangreth, Srinagar J&K - Visited Industrial Estate Srinagar in Rangreth and held meetings with members and non-members and discussed the activities of IEEMA with them.
- Mini Secretariat Bandipora - Visited and discussed with Additional Deputy Commissioner and power officials and told them about the activities and benefits in associating with IEEMA.

- ▶ Visited North Sun Enterprises - Met Director of the firm and discussed the activities of IEEMA with him and told him about the benefits of IEEMA membership. The said firm has completed the formalities for an association with IEEMA as a member.
- ▶ Visited Elpha Enterprises - Met Chairman of the firm and told him about the activities of IEEMA and benefits of IEEMA membership.
- ▶ Visited Zain Electricals- Met Director of the firm and briefed him about the activities of IEEMA and discussed the benefits of IEEMA membership.
- ▶ Visited Europower - Met MD of the firm and briefed him about the activities of IEEMA and discussed the benefits of IEEMA membership.
- ▶ Visited NHPC Kishenganga Bandipora - Met the Head of Electrical Engineering division and briefed him about the activities of IEEMA. Discussed the policy advocacy role of IEEMA with the government of India for the development of the power sector and domestic electrical industries in the State.

Meetings with Non-members & Technical Institute Heads

- ▶ Visited Alkaram Steel & Transformers (India) Pvt. Limited, Srinagar J&K - Met with the Director of the firm and introduced IEEMA to him as the first ISO-Certified Industry Association in India. Briefed him about the activities of IEEMA and told him about the benefits of the IEEMA membership. Gave him a survey form to complete.
- ▶ Visited Northern Steel Industries & Transformers, Srinagar J&K - Met with the Director of the firm and discussed the benefits of the IEEMA membership. Briefed him about the activities of IEEMA. Gave him a survey form to complete.
- ▶ Visited Raheem Group of Companies - Met with the Director of the firm and discussed the benefits of the IEEMA membership. Since this firm is into manufacturing of power gensets in J&K and has good market reputation, asked him to capitalise on IEEMA membership. Gave him a survey form to complete.
- ▶ Visited Government Polytechnic College for Women, Srinagar J&K - Held a meeting with the Training and

Placement Officer and introduced IEEMA to him as the first ISO-Certified Industry Association in India having 800 plus members. Discussed the activities of IEEMA and briefed him about programmes, seminars and training programmes being organised by IEEMA from time to time. Also talked about the monthly IEEMA Journal.

- ▶ Head & Dean, Electronics & Computer Sciences, Government Polytechnic College for Women, Srinagar J&K - Met with her and told her about the activities of IEEMA and the benefits of association with IEEMA in capitalising on training programs, seminars and conferences organised from time to time. Discussed promoting the IEEMA Journal among the students and faculty in the college.
- ▶ Executive Director, WSSU, J&K Srinagar - Met with him and discussed the activities of the IEEMA and briefed him about the policy advocacy role of IEEMA with the government of India for the development of the power sector and domestic electrical equipment industries across J&K.

Government interaction and other interaction

- ▶ Met Chief Engineer, Generation Wing, JKPD, Government of J&K - Discussed with him the activities of IEEMA and briefed him about the role of IEEMA in the development of the power sector in J&K. Discussed with him the role of IEEMA in the implementation of Mission Plan 2012-2022 Smart Electricity 24*7 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 capitalise on the efficient strategies of the IEEMA secretariat so as to get technical know-how in the generation of power in the power sector of J&K.
- ▶ Mr Bashir Ahmad Khan/Chief Engineer Maintenance & Rural Electrification J&K, Jammu & Kashmir State Power Development Corporation Limited, Government of Jammu & Kashmir - Discussed with him the role of IEEMA in the implementation of Mission Plan 2012-2022 Smart Electricity 24*7 across India and requested him to play a key role in the development of the power sector in Jammu & Kashmir through actively participating in all developmental activities of IEEMA and to capitalise on the efficient strategies of the IEEMA

secretariat so as to get technical know-how in the generation of power in the power sector of J&K.

- ▶ Mr Khurshid Ahmad/ Chief Engineer Procurement & Material Management J&K, Jammu & Kashmir State Power Development Corporation Limited, Government of Jammu & Kashmir - Interacted with him and discussed the noble cause of IEEMA for the efficient consumption of electricity across J&K and introduced IEEMA to him as the first ISO-Certified Industry Association in India that has 800 plus members, encompassing a complete value chain in power generation, transmission and distribution in India. Discussed with him the role of the IEEMA secretariat in the implementation of Mission Plan 2012-2022 Smart Electricity 24*7 across India and requested him to proactively participate in all developmental activities of IEEMA for the development of the 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.
- ▶ Mr Sandeep Kumar Nayak/ Principal Secretary Power J&K, Government of Jammu & Kashmir - Interacted with him and introduced IEEMA to him as the first ISO-Certified Industry Association having 800 plus members encompassing a complete value chain in power generation, transmission and distribution in India. Discussed with him the policy advocacy role of IEEMA with the Government of India for the development of the power sector and for the growth of domestic electrical equipment industries in Jammu & Kashmir. Also discussed with him Mission Plan 2012-2022 Smart Electricity 24*7 across India and the possible role of the IEEMA secretariat in the implementation of this plan. Discussed the role of IEEMA in the betterment of domestic industries that are into manufacturing of electrical, electronics and allied equipment in India. He assured that he would give all possible support to IEEMA for all kinds of developmental activities and would promote the noble cause of IEEMA for the development of the power sector and domestic industries in Jammu & Kashmir.
- ▶ Mr Sonam Lotus/ Director, Meteorological Centre Srinagar, Government of Jammu & Kashmir - Interacted and discussed with him the future

prospects of the power sector in Jammu & Kashmir and the possible role of IEEMA in the development of domestic industries and the power sector across Jammu & Kashmir; requested him to maintain close association with IEEMA for all developmental and reformation activities in the power sector. Introduced IEEMA to him as the first ISO-Certified Industry Association in India having 800 plus members encompassing a complete value chain in power generation, transmission and distribution across India. Discussed with him the noble cause of IEEMA in the implementation of Smart Electricity Mission Plan 24x7 across India and requested him to actively participate in all developmental activities of IEEMA, that in turn were beneficial for the people in Jammu & Kashmir. He was quite receptive and gave his possible assurance in the participation and his involvement in all developmental activities of IEEMA from time to time in future course of time. The Director asked us to arrange a conference in Srinagar that would create awareness regarding the importance of Smart Electricity.

- ▶ Mr Aijaz Kakroo/ Training & Placement Officer, Kashmir Government Polytechnic Srinagar - Met and interacted with him regarding participation of students and academia in the Metering India Seminar that was to be held in the month of April and asked him to send student and academia delegates so as to capitalize on technical know-how through different training programmes, seminars, and conferences being organised by IEEMA from time to time. Also briefed him about the benefits of having an Institutional Membership of IEEMA to capitalise on future training programmes, seminars, conferences and other industry exhibitions which gives robust and wide impetus to students and academia in getting a lot of technical know-how and exposure from time to time. He was very receptive and keenly listened to the history of IEEMA and advocated for his possible support in involving students and academia in the future training programmes, seminars and conferences of IEEMA. He responded very positively and even directed different engineering department heads to send a list of students who would be interested in attending the earlier mentioned seminar. Also I requested him to promote the monthly IEEMA Journal among students and faculty in the college to get world-class exposure to electrical equipment manufacturing.

- ▶ Mr Abrar Hussain/ Secretary & Engineer at Chief Engineer Office, Maintenance and Rural Electrification, Jammu and Kashmir State Power Development Corporation Limited - Visited and interacted with him regarding the Metering India Seminar which was to be held in the month of April in Delhi and apprised him of the importance of attending this seminar to get technical know-how from this world-class conference and requested him to send delegates from Maintenance and Rural Electrification to the Metering India Seminar. I also discussed with him the participation of a technical team that was specifically interested in getting technical know-how.
- ▶ Director Technical Education – J&K - Invitation for Metering India and discussion about the policy advocacy role of IEEMA in the implementation of Mission Plan 2012-2022 Smart Electricity 24*7 across India. Discussed the benefits of an Institutional Membership of IEEMA for all technical institutes.
- ▶ Joint Director Polytechnic – J&K- Invitation for Metering India and discussion about the policy advocacy role of the IEEMA Secretariat in the implementation of Mission Plan 2012-2022 Smart Electricity 24*7 across India. Discussed the benefits of an Institutional Membership of IEEMA for all polytechnic colleges to get technical know-how.
- ▶ Nodal Officer Power– J&K - Invitation for Metering India and discussion about the role of the IEEMA Secretariat for the development of the power sector in the State of Jammu & Kashmir.
- ▶ Mr Showkat Hussain Qadri/ Manager Estates SIDCO Parimpora Srinagar - Visited and interacted with him regarding the role of IEEMA in the development of the power sector and domestic industries in Jammu & Kashmir and discussed the benefits of membership of IEEMA. Also discussed with him the Metering India seminar that was to be held in the month of April in New Delhi, requested him to participate, and gave him an invitation for the said seminar.
- ▶ Mr Ghulam Jeelani MD/ DG Power Systems, Manufacturer of Power Conditioning Equipment's, Industrial Estate Zainakoot - Visited the Industrial Area in Zainakoot Srinagar and met the MD of this firm and discussed with him the activities of IEEMA. Briefed him about the benefits of an IEEMA membership and gave him a survey form to complete.

- ▶ Mr Rafeeq Ahmad Khan MD/ Shakeeba Enterprises, manufacturer of electrical general hardware materials, Zainakoot - Shakeeba Enterprises, manufacturer of electrical general hardware based in the Zainakoot industrial area of Srinagar was founded in 1982. Visited the MD of the firm and received positive feedback regarding IEEMA. Discussed with him the benefits of taking an IEEMA membership. He showed great hospitality and willingness to become a member of IEEMA.

New Member Enrolment

- ▶ Enrolled new member 'North Sun Enterprises' from Srinagar for IEEMA. The said firm has completed all the registration formalities. The said firm is into manufacturing of power distribution transformers.

CHANDIGARH

Members meet – Chandigarh, Punjab and Haryana

A meeting of members was held which was chaired by the President and Director General, IEEMA in Chandigarh, in which the points of discussion were, the pain point areas to be discussed with the Haryana Govt., the industry growth, emPOWERing Make in India – the role of manufacturers, and ELECRAMA-2016.

emPOWERing MAKE IN INDIA – An interactive session between the Haryana Govt. Utilities, members and non-members

The Additional Chief Secretary along with the team of MD HVPN, UHBVN, Chief engineers and SE interacted to discuss the expectations of the Govt. utilities from the manufacturers in the emPOWERing Make in India campaign.

The pain point areas of the manufactures were also addressed like: the bank guarantee taken by the utility departments against the orders. The problem of the new manufacturers not being able to apply for the government tenders as it is minimum turnover requirement for filling the tenders.

The time taken by the utilities to pay the manufacturers is quite a lot. The rapport was maintained between the ACS – Power Haryana, Haryana Govt. utilities and the manufacturers.

Meeting with – Additional Chief Secretary – Power – Mr Rajan Gupta, MD UHBVN & HVPN – Mr Nitin Kumar Yadav, MD- DHBVN – Mr Arun Kumar Verma

Points discussed:

- ▶ ACS Power – Haryana wanted standardization of the products. The members of IEEMA should have some standardisation so that it will be easy for the utility to have a tie-up with the vendors.
- ▶ Guarantee maintenance by the manufacturers after the delivery of the products. Solution AMC was offered which can be taken by the utility departments from the manufacturers.
- ▶ Training of the technical staff by the manufacturer after the delivery of the goods.
- ▶ ELECRAMA programmes like conferences, meetings, etc. should be structured while keeping in mind the time constraints of the utility delegates to enable maximum participation in the events as well as maximum exposure to the exhibitors.
- ▶ There should be product-specific halls but explained the reason for not doing so.

Meeting for the procurement of Smart Meters for the Panipat Project

Discussion related to contribution of Power Utilities in the Industry and related questionnaire for the same was given to be printed in the IEEMA Journal. Discussion related to Smart Grid - Panipat Project and participation of our manufacturers in this regarding the supply of smart meters.

Meeting regarding the training requirements of the Utility department officials and technical staff

Meeting with the MD – HVPN Mr Nitin Kumar Yadav, along with the Principal – Trainings – HVPN – Mr Gupta. Introduced IEEMA and the role of IEEMA in the Power Sector. He was happy to know about the seminars and conferences conducted by IEEMA.

We discussed the training opportunities for the utilities. He talked about the new training building, which can be utilised in future for any seminar and conference.

Meeting regarding the Power Consumption in Punjab and Scope for the manufacturers

A meeting was held with the CMD PSPTL in which the scope for the manufacturers in Punjab was discussed along with the visit to the INTELECT show.

Renewable energy consumption and scope

Met with Addl. Director Mr DK Chopra of HAREDA, and discussed the production and consumption of Renewable Energy in Haryana. We discussed the role of renewable energy in meters and also the procurement of goods from the Indian market.

Meeting with the Development Authorities

Met MD – HSIDC, Mr Vineet Garg, and extended thanks for sending delegates for 'emPOWERing MAKE IN INDIA' Chandigarh. We discussed the role of IEEMA in the electrical industry and how the development authorities can help IEEMA to take 'emPOWERing MAKE IN INDIA' further. We discussed the procurement of electrical goods by HSIDC. He assured that whatever action is required for promoting our Indian manufacturers, he will always work in line with IEEMA.

Education Institutional Membership

Education Institutional Membership initiative started by Chandigarh State – The first institution which was presented for Institutional Membership was Chitkara University.

JAIPUR

Members meet – Rajasthan

A meeting of members was held and was chaired by Mr JK Agarwal and Mr Anil Saboo (Executive council members IEEMA) in Jaipur, in which the point of discussions were: the entry tax issues and bank guarantee issue with the Rajasthan Government, export-related problems, problems members are facing from Discoms, and focus on increasing membership.

Meeting with – Pr. Secretary Energy, CMD Discoms and RVPN Mr Sanjay Malhotra,

Points discussed:

- ▶ Most of the large-scale industries are outside Rajasthan which is also an issue and IEEMA should do something so that the power industry can grow in Rajasthan.

- ▶ How the power sector can play a role in 'Make in Rajasthan'.

Meetings with - MD JVVNL - Mr Anurag Bharadwaj, Chairman RERC – Vishvenath Hiremath

Points Discussed:

- ▶ Discom asked us to find out any new technology or specification that they could use or whether their meters are in accordance with the new technology/specifications.
- ▶ It was emphasized that quality and affordability should be a benchmark for both commission and equipment manufacturers/EPC contractors.

Meeting with CMD- RVUNL – Mr NM Mathur

Points Discussed:

- ▶ There is a conflict between EPC contractors and Equipment manufacturers, which needs to be avoided.
- ▶ Rates of EPC contractors are unworkable nowadays which is affecting the output quality.
- ▶ Rajasthan Coal linkages: Rajasthan has the most comfortable position when it comes to coal, having more than one month's coal as reserve.
- ▶ Equipment manufacturers are taking more prices for selling spare parts for plant machinery. So, some check is required on monopoly price taken by equipment manufacturers for spare parts.

Meetings regarding sending delegates to IEEMA conferences and events:

Meetings with MD and higher officials of JVVNL,JDVVNL ,AVVNL,RVPN,RVUNL and RERC regarding participation of their delegates in IEEMA activities like INTELECT 2015, Upto 11kV show, CAPACIT 2014, INSULEC 2014, Conductor Seminars, and extending thanks to them for sending delegates to our events.

Meeting with Chief Engineer (MM) and Chief Engineer (M&P)

Discussed IEEMA activities like ELECRAMA and the role of the electrical industry with reference to development of the Power sector. They were having problems in getting PVC circulars, told them about online feature of PVC.

Meeting with Scientist F and Head of BIS - Mr AK Sinha

Discussed the new application no. 1180 for transformer manufacturers and asked IEEMA to organise a training programme so that the new application can be applied by manufacturers.

Industry Research and Data Collection

Meeting with Mr PN Sharma of District Industries Centre (DIC), Jaipur, regarding introduction of IEEMA and its activities; collected data from DIC for medium and small-scale industries. Visited and collected data of various electrical equipment industries from industrial areas of RIICO.

New Membership

Enrolled new member 'Airen metals Pvt. Ltd' from Jaipur for IEEMA. The firm has completed all the registration formalities. The said firm is into manufacturing of copper wires and copper products.

Institutional membership

Met a few reputed technical institutes for introducing our new IEEMA institutional membership and the response was good. Will get new membership from this in the coming months.

Meeting with MD RRECL (Rajasthan Renewable Energy Corp. Ltd) - Mr BK Dosi

Points Discussed:

- ▶ Scope of solar energy and wind energy in Rajasthan.
- ▶ Present status of solar energy, which is good i.e. 1100 MW installed and more than 500 MW under commissioning.
- ▶ How IEEMA members can add value in increasing renewable use in Rajasthan.

LUCKNOW

Introducing IEEMA to utilities and other government agencies, bringing awareness about its activities, its usefulness, and likely benefits in partnering with IEEMA for inputs while formulating policies for the state has been the main work till now. In spite of being the voice of the industry segment which manufactures over 95% of the equipment in the power sector IEEMA till now was an unknown entity to the majority who mattered.

Utilities

Meeting with senior officials in the Electricity Board as most of them were unaware about IEEMA. Met Mr Desh Deepak Verma, Chairman UPERC and Mr Sanjay Agarwal, P. Secy. Power cum Chairman UPPCL. Arranged for a meeting of both the President and DG with them. The President and DG met the two on 17 and 18 November respectively. It was a reasonably detailed meeting outlining IEEMA's activities and interaction with the central Govt. and intentions of interacting with utilities in states. Chairman UPPCL discussed matters like standardisation of transformer, development in metering technology, etc. and he being an engineer requested for literature, which was subsequently given to him.

Started rounds of meetings with senior officials, initially with MDs and directors in various corporations under the umbrella of UPPCL, namely Jal Utpadan Nigam, Vidyut Utpadan Nigam, UP Transmission Corporation and Discoms. They were made aware of IEEMA's existence, activities, and scope of working together for ultimate improvement in the power sector. There is perceptible change in their outlook towards IEEMA with some of them coming out with their technical problems and subsequently getting satisfactory solutions from IEEMA's divisional cell. The process continues with senior persons getting replaced and interaction percolating to the next level of seniority.

Additional Sources of Energy

Had a series of interactions with P. Secy. IT, Electronics and Additional source of energy, Mr Jivesh Nandan and MD NEDA. They were apprised of IEEMA, its activities and the constructive role it is playing in helping the Govt. at the centre in formation of policies. The concept of ELECRAMA was appreciated and this resulted in their participation by putting up a stall at the event by the department.

Administration

Met Chief Secy. UP Govt., Mr Alok Ranjan in the third week of November. Apprised him of IEEMA. Arranged for a meeting of the President and DG with him. The meeting which took place on 2 December went well beyond the scheduled time. A very wide range of topics regarding industry and the likely benefits to the state were covered. The Chief Secy. welcomed the presence of IEEMA in the state and assured of his interacting with other relevant departmental heads to drive the benefit for the state.

Industries Department

Met P. Secy. Mr Sanjeev Saran and Ms Kanchan Verma, Spl. Secy., Dept. of Infrastructure & Industrial Development. They were introduced to IEEMA and its activities. After the change of guard, met the new P. Secy. Mr Mahesh Gupta IAS. Interacted with him and told him about IEEMA's active role as member of the OC for the Hannover event. Interacted with staff officer of Chief Secy. as they all were going to be part of the entourage that was to be led by the Chief Minister. They gave an assurance of visiting the IEEMA pavilion with the CM.

Pollution Board

Met Mr JS Yadav, Member Secy. and Mr R Upadhyay, Chief Environmental Officer. Introduced IEEMA and told them about its activities. They gave an assurance of reasonable assistance when approached with a problem for smooth working of the industries.

Labour Department

Met Labour Comm. and other officials. Told them about IEEMA's presence in UP. It has been well received. They have registered IEEMA as an active association for all official purposes.

HYDERABAD

Members Meet – Hyderabad, Telangana

Introduction and interaction with members in Hyderabad about IEEMA HYDERABAD chapter. Membership Meet was conducted with attendance of 25+ members and below are the points discussed in the meet.

- ▶ Power Point Presentation on IEEMA and played ELECRAMA 2014 Video and Hannover PM message Video.
- ▶ Mr Jain from Finecab Cables, raised an issue related to the PV formula, their company was facing an issue related to the PV formula with the Railways. He mentioned that Railways are not accepting. He mentioned the need for a logical conclusion on PVC for customers.
- ▶ Mr Udas from Goldstone shared his experience on the successful implementation of the PV formula for composite insulators, and he also addressed the members about a few other issues related to PV formulas.

- ▶ Mr Amarpal from Transcon initiated a discussion on BIS and BEE-related issues and there were a few other members who had faced similar kind of issues.
- ▶ Mr Jitinder from P.E. Engineers raised issues related to the Customs & Excise Department.
- ▶ In addition to the above, members present had discussed about Solutions for China exporters, Issues related Type testing, GST & CPRI.
- ▶ Members showed interest to be part of Divisions
 - Mr Chetan Ghurka
 - Mr Armanpal

Visited utilities and interacted with CMDs and directors, gathered their opinions regarding emPOWERing Make in India events which can add value to them, depending on the below, we will need to plan further in Hyderabad.

- ▶ Mr D Prabhakar Rao, Chairman & Managing Director – TSGENCO & TRANSCO
 - As Genco is going little smooth, it would be ideal if IEEMA can structure a programme on TRANSMISSION.
- ▶ Mr M Sachidanandam, Director – Thermal & Finance, TSGENCO
 - Topic: Finding out the loops in the ELECTRIC GRID and the necessary action to be taken to fix it.
- ▶ Mr CH Venkata Rajam, Director – Hydrel, TSGENCO (will get interview)
 - Topic: Renewable Energy grid base
 - The Telangana Govt. has initiated a programme called MISSION KAKATIYA, which is a programme for restoring all the tanks and lakes in the villages of the State. In the same way, Mr Venkata Rajam has an idea on power generation for themselves (in every village there will be some useless land, if something is benefiting the villagers they will contribute it. So, on that useless land, according to the village requirement if a power generation is established, it creates employment, villagers can generate their own power for themselves and they will understand the requirement and act accordingly).
 - If we can plan a programme on the practical aspects of this idea and what are the ground level issues and how to take it further.

- ▶ Mr T Jagath Reddy, Director (Transmission & Projects), TSTRANSCO (will get interview)
 - Topics: Solar Plants & Renewable Energy – practical issues, back-ups when it is not generating up to the mark. Telangana State's future plans are on Solar Plants and Renewable Energy.
 - Load management of solar generation and wind generation.
 - Utilisation of capacity and power saving up to 7-8% on every machine.
 - Sustainability of adoption of brand new technology in the industry.
- ▶ Dr K Srinivas Reddy, Commission Secretary, Telangana Electricity Regulatory Commission
 - Topic: Renewable Energy & Solar Energy
 - In the last month they had a programme on the above topics but it was not productive.

Meeting with Secretary, Energy – Mr Arvind Kumar, CMD TS GENCO & TRANSCO – Mr Prabhakar Rao, CMD- TS DISCOM – Mr Raghuma Reddy

Points discussed:

- ▶ emPOWERing MAKE IN INDIA event in Hyderabad with members and non-members.
- ▶ Participation of Utilities in IEEMA events.
- ▶ Involvement of IEEMA in state government activities.
- ▶ A technical conference or seminar in Hyderabad with Utilities and other industry delegates.
- ▶ Renewable energy event, highlighting the loopholes and how to fix it to run successfully.

Renewable energy consumption and scope

Dr Srinivas, Commission Secretary – Telangana Electricity Regulatory Commission & Mr T Jagath Reddy, Director (Transmission & Projects), TSTRANSCO, discussed the scope of renewable energy, load management of solar generation and wind generation, utilisation of capacity and power saving up to 7-8% on every machine. Solar Plants & Renewable Energy – practical issues, back-ups when it is not generating up to the mark. Telangana State future plans are on Solar Plants & Renewable Energy.

Meeting with Andhra Pradesh Energy Secretary

Mr Ajay Jain, Secretary – Energy Department, Andhra Pradesh discussed 'emPOWERing MAKE IN INDIA'; he was positive and said make it as 'Made in Andhra Pradesh'. He also said, he will recommend to Industries and Commerce for participation of all the entrepreneurs.

Education Institutional Membership

The Education Institutional Membership initiative started by Telangana State – Approached HODs of Osmania University (OU), Hyderabad Central University (HCU) & Jawaharlal Nehru Technological University (JNTU). Introduced and discussed IEEMA institutional membership benefits, have to meet the principals and discuss further on the same.

GUWAHATI

Networking with the Government, Utilities Department, Members, Non-members, Association body and others of North East

States covered in North East for various interactions:

Assam, Meghalaya, Mizoram, Arunachal Pradesh and Nagaland

ASSAM

Interaction with the Government

Interacted with power minister Mr Pradyut Bordoloi and informed him about the event 'Konnect North East' at Guwahati. Meetings with Additional Chief Secretary planning (Assam), NEC Chief Planning Officer, Commissioner Power Mrs Nilofar Alam Hazarika, Industry Commissioner (Assam), Additional Chief Secretary Power Mr Pyarelal, MNRE, Senior Officials, NPTI Director, CPRI Jt Director Mr Ravindra, NSIC Chief General Manager Mr J Mahanta, MSME Director Mr Shirish Asthana, DIC GM of Kamrup, Assam Industrial Development Corporation MD, Assam Energy Development agency director – discussed various activities of IEEMA, informed them from time to time about various events conducted by IEEMA, and kept on informing and updating them

Interaction With The Utilities

Meetings with Chairman Mr KV Eapen, MD Distribution Mr RL Baruah, MD AEGCL Mr Golap Das, OSD Mr Dihinga

and all senior officials of Assam Utilities. Discussed the various activities of IEEMA, seminars, events; keep on informing them about any important development from time to time; proactive involvement of utilities towards 'Konnect North East' event and 'emPOWERing MAKE IN INDIA' programme.

Members' Interaction:

Meeting IEEMA members at regular intervals to discuss, share views and share opinions on various subjects. Active involvement and support of members for 'Konnect North East' event.

Non-members' Interaction

Interaction with many non-members at regular intervals related to the electrical industry, either manufacturer/dealer keeping them informed about different activities, events, seminars or any other initiative by IEEMA towards development of the electrical industry.

Interacted with various technical institutes and kept them informed. Was able to convince one non-member named NTL Steel to become an IEEMA member; a few non-members are in the pipeline and will try to make them IEEMA members.

Because of my continuous touch with them several non-members were actively involved in the 'Konnect North East' event.

Association Body

Several association bodies like FINER, AASSIA and others are also in continuous touch and they are kept informed about various events that are conducted by IEEMA and they are requested to keep their respective members informed.

General Interaction

Interaction with local offices of HPL, BAJAJ ELECTRICALS, HAVELLS, POLYCAB, CROMPTON GREAVES, KEC, L&T; involved them in the 'Konnect North East' event and a few also booked stalls at the event.

Individual presentations about IEEMA and the 'Konnect North East' event were made at the NERPC-OCC Meeting where almost all senior officials from each state utility of the north east were present.

MEGHALAYA

Interaction With The Government

Interaction with Chief Secretary Mr BPO Wajri, Additional Chief Secretary BK Dev Varma, Commissioner & Secretary Power J Lyngdoh, Commissioner and Secretary (Commerce & Industry) Mrs L Kharkongor, Deputy Secretary (Commerce & Industry), Mrs N Diengdoh, Economic Adviser NEC, Mr W Synrem, Asst. Secretary, Mr Lalrinsanga NERPC, Member Secretary Mr PK Mishra, NERPC, Director NERPC Mr B Lyngkhoi, Adviser NEC (T&C) Mr PKH Singh, and Chairman MSERC Mr Anand Kumar.

Discussed the various activities of IEEMA, events, seminars conducted by IEEMA, and the 'Konnnect North East' event. Kept them informed about upcoming events and developments on a regular basis. Shared views of Director NERPC on the IEEMA Journal related to power.

Interaction With The Utilities

Interaction with Director Distribution Mr Cheiwonstar Kharkarang, Director Generation Mr P Lyngdoh, Director Transmission Mr K Marbaniang, Director HR Mr War, Deputy Director HR Mr P Kar, Assistant Chief Engineer (EZ) Mr EB Kharmujai, Additional Chief Engineer. Mr M Shangpliang, Additional Chief Engineer Generation Mr K Tiewsoh, Additional Chief Engineer (Civil) Mr Kamalendu Deb and many more senior officials of Utilities and discussed IEEMA, its activities, international conferences and upcoming events and requested them to send delegates. Also discussed and did online registration of PVC circular. The Chairman of MSERC participated in the last AGM Meeting which was held. Informed them about the 'Konnnect North East' event and requested their active participation.

Non-member Interaction

Interacted with Mr Pillai of power carrier several times to inform him about the activities of IEEMA from time to time and received support at the time of the 'Konnnect North East' event, booked and paid accommodation for a guesthouse at Guwahati. Also interacted with Director Technical Mr Utpal Morol and senior officials of NEEPCO. Met Executive Director Contracts Mr PS Deb of NEEPCO, discussed the various events of IEEMA and also did online registration of the PVC circular.

NAGALAND

Interaction With The Government

Interaction with Secretary Power Mr KI Yanger, Secretary New and Renewable Energy Mr A Ao, Director New and Renewable Energy Mr TS Angami, Secretary Nagaland Electricity Regulatory Commission Mr WY Yanthan, Senior Private Secretary Nagaland Electricity Regulatory Commission Mr LN Wati Walling, Under Secretary Power Mr Y Renbonthung Tsopoe, Deputy Secretary Power Mr Sangtila and apprised them of IEEMA, also discussed various seminars and events conducted by IEEMA. Briefed them about the 'Konnnect North East' event, requested their active participation and also requested them to send a team of delegates to the event. Shared views on the 'emPOWERing MAKE IN INDIA' event and its benefits.

Interaction With Utilities

Met and interacted with Mr K Miachieo Chief Engineer (T&G), Mr Er. Imli Chief Engineer (D&R), Mr IV Chishi SE (Generation), Mr Otyo SE (Transmission), Mr Rokozhali Angami Chief Electrical Inspector, discussed IEEMA, its activities and functions, PVC circulars, events and seminars conducted by IEEMA. Discussed and shared views on the 'Konnnect North East' event and how it can help the utilities of the north east. Requested for participation of Nagaland Utility in the Guwahati Event.

ARUNACHAL PRADESH

Interaction With The Government

Interacted with Commissioner/Secretary (Power/Hydro Power/NRE) Mr Kaling Tayeng, Under Secretary Power Mr Tayi Tagu, Parliamentary Secretary (Hydro Power-APEDA) Mr Purpa Tsering, Secretary Industry Mr Surendra S Ghonkrokta, PS to power minister Mr Hemchandra, Joint Secretary Power Mr Habung Donyi and apprised them of IEEMA, its activities, delivered the pre-announcement letter of the 'Konnnect North East' event and explained the main objective of conducting such an event in the north east and how they will be benefitted.

Interaction With The Utilities

Met and interacted with Mr Ini Lego Chief Administrative Officer Power, Mr Anong Perme Chief Engineer (Transmission & Planning), Mr J Tato Chief Engineer (Western Electrical Zone), Mr Ogum Mayong

Chief Engineer (Eastern Electrical Zone), Mr T Mara Chief Engineer (Central Zone/M.SECT), Mr Pura Tupe Chief Engineer (Western Zone-Hydro Power), Mr Lipe Ete Chief Engineer (Eastern Zone-Hydro power), Mr Sang Phuntsok Chief Engineer (Monitoring-Hydro Power), Mr Dikto Yekar Chairman APEDA, Mr Marki Loya Director APEDA, Mr G Tripathi Deputy Director APEDA, Mr Rakesh Kumar Secretary Arunachal Electricity Regulatory Commission, Mr Digvijai Nath Chairman Arunachal Electricity Regulatory Commission and also interacted with MSME Assistant Director Mr G Podder, and Arunachal Pradesh Industrial Development and Financial Corporation Manager Dipankar Bhowal.

Discussed the power scenario of their states, the various problems they are facing related to power and the kind of support they want from IEEMA. Discussed a few vital points in terms of industry development in Arunachal Pradesh. Also informed them about the 'Konnect North East' event and requested their active participation.

MIZORAM

Interaction with the Government

Interacted with Commissioner/Secretary Power Mr Pu Lianchunmunga, Commissioner/ Secretary Industry Mr Zothan Khuma, Deputy Secretary Industry Mr Zarzokimi, Under Secretary Power Mr Liansangvunga, Joint Secretary Power Mr Lalramliana, Special Secretary Mr HL Rochungnunga, Chief Secretary Mr L Tochlong. Apprised them of IEEMA, its activities, discussed their pain points in terms of power development, industry development and how it can be improved.

Delivered the pre-announcement letter for the 'Konnect North East' event, and 'emPOWERing MAKE IN INDIA' programme and requested their participation.

Interaction with the Utilities

Interacted with Engineer-in-Chief Power Mr L Pachuau, Chief Engineer Power (Civil) Mr K Guite, Chief Engineer Rural Electrification Mr F Rualzakhuma, Chief Engineer System Operation Mr R Vanlalhruaia, Chief Engineer Distribution Lalnunmawia Sailo, Chairperson Joint Electricity Regulatory Commission Mr A Chhawnmawia, Director ZEDA Mr Lalrinmawia, Project Director ZEDA Mr C Lalramliana and discussed the activities of IEEMA, the 'Konnect North East' event, pain points of power theft, and issues relating to poor supply quality of electrical equipment.

Pre-Budget Meetings

Economic & Taxation Committee

The Economic & Taxation Committee 2014-15 was re-constituted by the Executive Council, under the Chairmanship of Mr Vardhan Dharkar, President (Finance) Gammon India Ltd.; and other senior finance/taxation officials of member organisations as members of this Committee.

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

The Committee steered the pre-budget exercise and presented the IEEMA Pre-Budget Memorandum for Budget 2015-16 to the Government of India. It also interacted with the Ministry of Finance and Department of Industrial Policy and Promotion, under the Ministry of Commerce and Industry, Government of India, on this subject.

The Committee conducted three meetings during the period, where it discussed and addressed various taxation and policy issues faced by the industry, which include denial of deemed exports benefits to projects funded by JICA; high stamp duties in the State of Maharashtra; denial of TED refund under ICB; Focus Product Scheme; Accumulation of CENVAT Credit etc.



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

IEEMA Journal

The IEEMA Journal continues to furnish its readers with informative and researched articles from experts of the power industry. In the year 2014-15, the IEEMA journal underwent tremendous change in terms of content and layout. Various new sections were introduced in the Journal like that of Appointments where we tried to incorporate all recent important appointments in power and related sectors. Another important section, SME talks was introduced; the journal has extensively covered interviews of top officials of utilities, bureaucracy and SEBs and the same have received positive feedback from concerned state government bodies and other readers too.

The important highlights of the IEEMA Journal in the year 2014-15 were some important cover stories on Capacitors, Transformers, Energy Efficiency, Financial analysis of the electrical industry, to name a few. Special coverage was given to specific events like Interaction with Members of Parliament, EmPOWERing MAKE IN

INDIA, CAPACIT 2014, INTELECT 2015, T&D conclave and others.

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

In the year 2014-15, a complete revamping initiative of the website was started to add new dimensions to the website for the benefit of our members. The new website will have additional features like IEEMA Live Tab which will be a one-stop news page for the latest in power generation, transmission and distribution trends and news. It will also have online PV Calculator, Online IEEMA publications with online payment gateway. Moreover, the new website will have additional tabs like live chat in which our secretariat would be resolving the queries of our members within a span of a few seconds. Other services to be 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 www.elecrama.com.

IEEMAIL

IEEMAIL, the monthly e-bulletin prepared by IEEMA for members, is updated monthly on our website www.IEEMail.com. The bulletin covers happenings in



the power sector as reported in leading national financial dailies. It also includes Growth Indices for the Electrical Industry, Production Statistics, Export and Import data, Foreign trade, Rate of inflation, Bank interest rate, World Commodity Price Data and Public Finance.

IEEMA News & Views

The monthly newsletter IEEMA News & Views (IN&V) is also available on the IEEMA website

www.IEEMAIL.com. It gives details of news related to IEEMA representations to the Central and State governments, interaction with various Ministries and Government's arms, delegation visits to and from India, divisional and regional activities, national and international seminars, production statistics, list of Basic Prices issued by IEEMA during the month, and forthcoming training programmes organised by IEEMA.

MEMBER CONNECT

IEEMA Utility Outreach and Membership Outreach Programmes - Gujarat State

The second Membership Outreach Programme and Utility Outreach Programme were held at Ahmedabad on 21 April 2014. The meeting was preceded by a press conference which was addressed by office-bearers of the Executive Council. About twenty-five local press representatives participated in this interaction.

The Membership Outreach Programme attracted about thirty-five member representatives who actively participated and gave feedback on various services enjoyed and desired by them. Later, the Utility Outreach Programme was held for which about twenty senior utility officials from across the Gujarat state including private utilities like Adani Power, Torrent Power were also present. Mr MR Rao, Expert Coach for IEEMA A.S.K. initiative presented to the audience a brief about this initiative and how it will help upgrade the overall skills in the electrical sector over a period of time.

Mr SK Negi, MD, GETCO congratulated IEEMA for the outreach and the A.S.K. initiative and wished it all the success. He welcomed the help offered by IEEMA in exposing the utilities to the latest technology trends and equipment to improve overall efficiency and reliability of the electrical T&D system. He also appreciated the quality of the monthly IEEMA Journal

and offered to provide technology articles on a regular basis from GETCO. Other IEEMA services like product standardisation and price variation formulae were also appreciated by utility officials. Mr Vishnu Agarwal delivered the vote of thanks in the concluding session.

Visit of IEEMA Officials to Nashik Thermal Power Station (NTPS)

IEEMA officials visited Nashik Thermal Power Station (a unit owned by Mahagenco, formerly known as MSEP) on 15 April 2014. Their visit was intended to have a dialogue with Chief Engineer Mr KM Chirutkar, regarding the A.S.K. initiative (Change in Attitude, Upgradation of Technical Skill & Upgradation and Updation to latest Technical Knowledge) undertaken by IEEMA.

A fruitful discussion was held with Chief Engineer Mr Chirutkar, Deputy Chief Engineers Mr NM Shinde and Mr GS Puranik wherein the focus was on issues related with A.S.K. Mr Chirutkar explained to the IEEMA team the crunch of electrical suppliers and vendors around the TPS area to get efficient and timely service.

The team also visited Unit-4 of NTPS, which was commissioned on 10 July 1980 and is still in operation efficiently at a Plant Load Factor (PLF) around 74%, Loadability 82.30% and Specific Oil Consumption (SOC) 1.17 ml / kWh. The IEEMA team was welcomed by Shift In-charge Mr VJ Chaudhari. PCR In-charge SN Shingnad, Boiler Desk In-charge Mr SA Zute, Drum level Desk In-charge Mr SS Khairnar, Turbine Desk In-charge Mr RR Bahiram and Boiler In-charge Mr Kiran Khaire participated in the discussion on MAHAGENCO as well as the power generation scenario as a whole.

IEEMA officials visited The Institute of Training and Safety i.e. the training arm of MSEDCL at Eklahare, Nashik (M.S), on 15 April 2014. The objective of this visit was to have a dialogue with Mr CH Yerne, Chief General Manager (Training & Safety) about the new IEEMA A.S.K. initiative.

Under this initiative IEEMA will engage with utilities at their doorstep and also on a residential basis by taking the help of international experts and other sources to aid the utilities in developing Attitudinal/ Behavioural Change, Upgradation of Technical Skills and Upgradation and Updation to Latest Technical Knowledge.

IET Mumbai Local Network Programmes – Tech Dais Session

IEEMA partnered with IET for conducting workshops and lectures to bring together industry experts, academicians and young professionals for sharing of knowledge at Mumbai and Kolkata.

In the programme held in Mumbai, Mr Rajesh Patwardhan, Secretary, IET gave an introduction of activities aimed at engineering empowerment through Tech Dais, Community involvement, linking science to social issues through various competitions, street plays, Industry-academia linkage, etc.

Mr Vikram Gandotra, Vice-Chairman, IEEMA Smart Grid division in his presentation on 'Intelligence in power grids – the path forward' explained about massive growth potential driven by urbanization, injection of renewables and DG across the globe, which has given different perspective to the power sector. He briefly explained the topics like consumer distribution side in power sector, PV rooftop cells, awareness to consumers so as to have lesser damage during natural calamities, how to address problem of blackouts, shift in the consumption types, industry increase usage of renewable utilities, e.g. electrical vehicles, intelligent Dr Fahd Hasheish, CEng FIET, Technology Manager, ABB Limited, UK gave lecture which delved upon different sources of renewable energy generation, its storage mechanism and the future of energy expectations. He provided an overview of the renewable energy sector, highlighting the challenges faced by power distribution companies.

A similar programme was also held in Kolkata. In the programme held in Kolkata, Mr Avijit Bose, Director of Distribution, CESC was the Chief Guest. Prof Sujay Basu, Vice-Chairman, State council for Biotechnology was also invited to share his thoughts with the present engineers and professionals.

Both the sessions had an interactive Q-A session. Nearly 300 attendees from both industry and leading academia were present at the IET India Energy lecture at Kolkata and in Mumbai programme, 51 engineers were present, which included members of the IET and IEEMA.

Compilation and circulation of Statistical data

IEEMA publishes Production/Sales statistical report for 12 different electrical products and one Order Book

position report (OBP) every month on the basis of data furnished by the members. In the present year, formats for four product sectors were upgraded with the aim of covering contemporary segments.

Collection and compilation of data process follow Competition Compliance rules and regulations. Utmost confidentiality is maintained in handling the data. Average lead-time of furnishing Sales/Production reports was about 60 days.

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 estimates Indian Industry size of major sectors of T&D based on this data with the help of experts from the division/industry.

IEEMA also circulates Import and export data for major electrical items collected from select ports made available through private agency with time lag of 45 days.

IEEMA Prices and indices Services

IEEMA PV clauses & circulars has seen increased demand from stakeholders to mitigate their risks from fluctuations in the raw material prices.

PV clause for Instrumentation Cables was made operational during the year where LME based pricing of Aluminium for Conductors (Daily LME) and Cables (Avg LME) was incorporated. The process has accordingly been designed & communicated for revision of PV clauses.

Average lag time for publishing monthly prices/indices circulars for different products stood at around 40 days.

Statistics Reports and PV circulars are being published through a dedicated website <http://publications.IEEMA.org>

PV Calculator

IEEMA has now developed an online PV Calculator portal (www.pvcalculator.IEEMA.org) where a user can get Certified Report of Price Variation by submitting key inputs of the contract like Quoted price, date of tender opening, date of delivery, respective IEEMA PV formula

& specific details of products. This will help users to settle the PV claims amicably.

PV Calculator tool is further being developed to furnish final Price Variation as per standard two stage switch over method recommended by IEEMA when the PV clause is revised or renewed and to compare actual price variation w.r.t. contractual price variation.

SME FOCUS

SME Division

More than seventy five percent of IEEMA membership comprises of Small and Medium scale enterprises. While general concerns and interests are discussed on a regular basis during Division and Executive Council meetings, however it was felt that issues pertaining to the SME Sector escaped due attention in the absence of a division dedicated to look at the segment holistically.

Creation of a SME Division was therefore approved by the Executive Council. The SME Division has commenced functioning under the Chairmanship of Mr JG Kulkarni, Past President.

Project iSME

IEEMA iSME Project was launched with an aim to improve capabilities and achieve product excellence of micro, small and medium sized industry members of IEEMA under consultant, trainer, advisor, HR processor, mentor, and coach concept. The project was launched under the chairmanship of Dr Jaya Sathe – Member Executive Council with the guidance / consultancy of M. Ajay Dhagat, Past President and Capt. Vilas Katre, Member, Executive Council.

The team visited and interacted with some of the selected SME Members and identified where gaps existed. A nominal subscription fee has been fixed for the interested participants according to their turnover.

STRATEGIC PARTNERSHIP

10th Annual General Meeting of the Federation of Asian Electrical Manufacturers Associations (FAEMA)

Six associations from Australia, China, India, Japan, Korea and Taiwan came together to form FAEMA (Federation of Asian Electrical Manufacturers Associations) in 2005



to leverage common interest areas and trading into European and American markets.

IEEMA hosted the 10th AGM of FAEMA on 21 January 2015 at Hotel Westin, Goregaon, Mumbai. The following delegates attended the meeting:

- ▶ Ms Zhang Shuang, Engineer and Mr Yong Qiming, Executive Vice-Chairman from CEEIA (China Electrical Equipment Industries Association)
- ▶ Mr Kiyoshi Ebizuka, President, Mr Kazutaka Tsuji, Deputy GM, New and Renewable Energy Systems Dept, and Mr Toshihiro Matsumoto, Director & GM, General Planning Department from JEMA (Japan Electrical Manufacturers Association)
- ▶ Mr Nam Joon Hyun, Vice-Chairman and Mr BI Park, Director KOEMA (Korean Electrical Manufacturers Association)
- ▶ Mr Sunil Misra, Director General extended a warm welcome as the host for the AGM. He mentioned the long-term cultural and trade ties of India with the three other countries. He also mentioned that all FAEMA countries must have strategic initiatives for further growth and should work mutually.

Mr Babu Babel, Vice-President IEEMA, said that in terms of world growth, China, Japan, and Korea have been three success stories in Asia. The common factor among all these countries including India is focus on education. However, Asians need to do a lot in basic research. Just like associations from the Western part of the world have close tie-ups, Asian associations must also do the same. It's the need of the hour to work

together to build quality brand for Asia. Brand building together will convince the world about the quality of products manufactured in Asia.

Mr Yong Qiming, Executive Vice-Chairman from CEEIA (China Electrical Equipment Industries Association) made a presentation on 'Analysis of current status of China's electrical industry'. In his presentation, Mr Yong said that a large number of major technical equipment for GW-class ultra-supercritical thermal power units has been successfully developed and applied in the market. At present, the output of China's high-end equipment manufacturing sector has accounted for more than 10%. Commenting on renewables, Mr Yong said that China attaches great importance to the development of the photovoltaic (PV) industry. In 2013, the State council released some opinions on the promotion of the healthy development of the PV industry, and clearly put forward the development objective and safeguards of the Chinese PV industry. In 2013 the cumulative installed capacity of solar energy was 15 GW. It is planned that the installed capacity of solar power will reach 35 GW or more in 2015.

Currently, the transformation and upgrading of the key industries of China's national economy, the development of major national strategic emerging industries, and construction of key projects have put forward new market demands and higher requirements for green, intelligent and service of electrical industry. The development policy of China is innovation-driven and high-end leading.

Mr Kazutaka Tsuji, Deputy GM, New and Renewable Energy Systems Dept, JEMA, made a presentation focused on 'Trends in New and Renewable Energy-Related Policies in Japan', and 'Status of Various New Energy Power Generation and Activities of JEMA in the New Energy Field'. He mentioned that since 2008, fuel cells and electric vehicles have been removed from New energy and are now identified as 'Innovative technology for advanced use of energy'. Mr Tsuji also explained the basic energy plan, Implementation Targets for Solar Power Generation by the National Government. He informed that the introduction of solar generation had gone ahead, mainly for households. However, after the implementation of the FIT system, including non-household use (2012), an immense increase has been seen for non-household use, including large-scale

mega-solars. Mr Tsuji also touched upon the topic of Approach for Fuel Cell Power Generation in Japan.

Mr BI Park made the presentation on behalf of KOEMA which covered electrical industry trends in Korea and new technology development trends. He explained the supercritical CO₂ Brayton cycle technology and advanced ultra super critical power generation. Mr Park explained new technologies like next-generation power conductor with high carbon steel core, which has higher efficiency and capacity than the current ACSR, self-healing concrete for long-life power structures, Biomimetic robot for extreme service conditions, etc. He further said that smart grid and energy storage systems would be the focus areas of Korea.

This was followed by a presentation by Mr Anil Nagrani, Deputy Director General IEEMA. He gave the delegates a brief history of the Indian electrical industry, and also informed them about amendments in the Electricity Act 2003, De-bottlenecking of the sector through new land acquisition bill, Fuel Supply linkages, Strong Infrastructure, etc. He informed the delegates about the Indian Government's Focus on Increasing Solar and Nuclear Route for generation, optimisation of Existing Thermal Plants with super critical technology, and Distributed Generation for Rural areas, including Biomass/Solar/Mini hydel. The common factor in all the presentations was renewable energy. He explained India's renewed focus on renewable energy and its inclusion in the Amendment Bill 2014 which mentions that it is mandatory for any company establishing lignite and coal-based thermal power plants to generate renewable energy, not less than 10% of the total installed capacity of the thermal plant.

The key point of the presentation was the Indian Government's plans to develop 100 smart cities across the country to take care of the growing needs of urbanization. That would help bridge the rural-urban divide which will be achieved through use of smart technology like GIS, Unitized Substation/Package Sub-Station, HVDC Transmission lines and HTLs conductors. He also gave information about the Government's 'Make in India' campaign and its objectives: Focus on heavy industries and public enterprises, Generate Employment, Empowering the secondary and tertiary sector, Utilizing the frugal engineering minds and vast talent pool present in the country.

Business session of AGM

The presentations were followed by the actual business session of the AGM. Mr BI Park, Secretary FAEMA for 2013-2014 conducted the session.

Theme for the next FAEMA AGM

Members discussed the theme for the next FAEMA AGM and suggested the following topics:

China: How to expand the influence of FAEMA, How to improve cooperation among FAEMA members, Market access and standards cooperation

Japan: HVDC, Environment for thermal power plant

India: To create market access forum, Joint ventures, Technology transfer

Korea: HVDC, Market access

Out of all the themes discussed, the following were chosen: HVDC and LVDC and Market access

Host for the next AGM

It was suggested that the next AGM should be held during ELECRAMA-2016 and hence India will host the same. However, Mr Park suggested that since it is Taiwan's turn now to host the next AGM, he will check with TEEMA about hosting the AGM. If TEEMA agrees, then IEEMA will host the AGM of 2017.

Appointment of new Secretary

All present members unanimously appointed Mr Toshihiro Matsumoto, Director & GM, General Planning

Department, JEMA as the new Secretary for the year 2015-2016.

Collaboration and Strategic Partnership with Counterpart Associations

IEEMA has entered into MoUs with the following associations:

- ▶ Associazione Nazionale delle Industrie, (ANIE), Italy
- ▶ The Japan Elec. Mfrs' Assn., (JEMA), Japan
- ▶ The Taiwan Elec. & Elect Mfrs' Assn., (TEEMA), Taiwan
- ▶ Korea Elec. Mfrs' Assn. (KOEMA), Korea
- ▶ The China Elec. Eqpt. Inds. Assn. (CEEIA), China
- ▶ The Elec. & Elect. Assn. of Malaysia (TEEAM), Malaysia
- ▶ The Federation of Asian Elec. Mfrs' Assn. (FAEMA)
- ▶ Spanish Assn. of Mfrs' & Exporters of Control Gear Cables & Elec. Materials (AMEC-AMELEC), Spain
- ▶ Centre for the Promotion of Imports (CBI), Netherlands
- ▶ Iranian Elect. Industry Syndicate (IEIS), Iran
- ▶ Central Board of Irrigation and Power (CBIP), New Delhi
- ▶ The Institute of Electrical and Electronics Engineers, Inc., (IEEE), USA
- ▶ The Institution of Engineering and Technology (IET), UK
- ▶ European Business and Technology Centre (EBTC), India
- ▶ German Electrical & Electronics Manufacturers Association (ZEV), Germany



FAEMA Delegates lighting inaugural lamp.

The MoUs are aimed at furthering member interests through the following activities:

- ▶ Exchange of Information in Monthly Publications, Directories through print, electronic media, Internet and website
- ▶ Creating Joint events and activities
- ▶ Joint efforts to improve exports and collaborations
- ▶ Identifying and Matchmaking Potential through Joint Ventures and Collaborations
- ▶ Forming a link between two organisations for doing handholding for JV and collaborations

- ▶ Advisory and consultancy services on Industry status and prospects
- ▶ Promotion of Trade fairs, conferences and Buyers Sellers Meets
- ▶ Joint dissemination of knowledge through Guest lectures on new technology and best practices
- ▶ Assisting the business delegations to promote such missions

Fresh impetus has been given to reenergise these activities with the end aim of increasing value for our members and providing them an international platform.

ELECRAMA

ELECRAMA-2016

ELECRAMA-2016, the 12th edition of the flagship event of IEEMA is once again being held at BIEC, Bengaluru from 12-17 February 2016. The theme for ELECRAMA-2016 is 'World Electricity Forum' which primarily means that ELECRAMA is staking its claim to being the global event and platform in the sector of Electricity, additionally it's Advantage India which also works for us, as today India is one of the very few economies which is growing and is the talking point of the entire globe, while offering huge business opportunities

with natural geographical advantage as a connection between the East and the West.

ELECRAMA-2016 will work towards fulfilling the theme by continually improving the experience of both exhibitors and visitors. New targets towards achieving this goal have been set including a minimum of 5000 overseas visitors, at least ten partner countries and the largest Exhibition area till date of 80,000 plus sq. m. spread over nine halls. More than 1000 exhibitors from across the globe are expected and visitors from more than 120 countries are likely to be present at the show.

A number of new initiatives out of which many are firsts are being launched in ELECRAMA-2016. World Utility Summit is an ambitious initiative wherein CEOs from the top fifty utilities from across the globe are being invited to share their experiences over two days of networking. One of the major agenda points could be the top fifteen bottlenecks/issues faced by the utilities and the solutions thereof. This is a co-located event with ELECRAMA-2016.

Other experience-enhancing activities include town halls strategically placed in each hall where exhibitors can make their presentations in allotted time slots. These town halls could be a staging area for many of the exhibitors to promote their products/services. Another new initiative is the experiential pavilions spread over



Concurrent events at ELECRAMA-2014.

select halls which will have thematic presentation, for e.g. 'Evolution of 125 years of electricity'. A Coffee Table Book also will be released on the subject during ELECRAMA. 'Energies of tomorrow' or EOT is another such showcase where the current active research in this field includes Prototype display and start-ups. A smart village demo is also on the cards.

Other concurrent events include the 3rd edition of Reverse Buyers Seller Meet - RBSM, CEO Summit, CIGRE Tutorials, and Engineer infinite, which will give an opportunity to third-year electrical engineering students to display their innovative projects, which culminates in the Innovation Day.

'Network 2 Networth' is a new event being organized at ELECRAMA-2016 for the first time and is an exclusive international platform for the finance fraternity to interface with the industry to explore investment opportunities in the electrical industry, featuring some of the prominent names in the finance sector.

Last but not the least is the 3rd edition of the International T&D Conclave, which is the platform for business partnerships between the T&D industry and its stakeholders across the value chain.

The 'Make in India' pavilion, and the renewable pavilion are the other highlights. The Government of Karnataka is once again the host state for ELECRAMA.

SEMINARS, WORKSHOPS AND TRAINING ROGRAMMES

INTELECT 2015

Creating a new chapter of Intelligent Electricity Consumption & Technology for India @ INTELECT 2015

First time in India:

- ▶ Supported by three Ministries of the Government of India * - Ministry of Power, Urban Development and Communications & IT, and the Government of Maharashtra
- ▶ Distribution Reforms Interactive Session
- ▶ Conference: 'Smart Electricity for Emerging Markets' with world-class Technical Speakers
- ▶ Pavilions:
 - Make In India
 - Micro & Small Scale Industries
 - Smart Tech
 - Smart Innovator Competition: Open to engineering students to showcase innovations in Smart Distribution, Energy Saving & Home Generation of electricity

IEEE's mission statement is to foster technological innovation and excellence for the benefit of humanity and that of IEEMA is to foster electricity for all and global excellence, leading to human enrichment. In



Mr Tommy Mayne, VP, Meetings and Conferences addressing the audience at INTELECT 2015. Also seen in picture (L to R) Mr Sunil Misra, Director General, IEEMA, Mr Howard Michels, CEO and President IEEE, Mr Anant Geete, Union Minister for Heavy Industry & Commerce, Government of India, Mr Vishnu Agarwal, President, IEEMA, Mr Tanga Byaling Chairman, North Eastern Regional Power Committee, Minister for Home, Power & Non-Conventional Source of Energy, Arunachal Pradesh, and Mr Krishna Kumar, Chairman, INTELECT 2015.

consonance, the synergistic 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 stakeholders and the end customers. The exhibition was inaugurated in Mumbai by Mr Anant Geete, Union Minister for Heavy Industry & Commerce, Government of India, Mr Tanga Byaling Chairman, North Eastern Regional Power Committee, Minister for Home, Power & Non-Conventional Source of Energy, Arunachal Pradesh, Mr Chandrashekhar Bawankule, Minister for Energy, New & Renewable Energy, Maharashtra and Mr Howard Michel, President and CEO, IEEE.

Record-breaking attendance of more than 10,000 quality visitors

As per survey conducted:

- ▶ 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

Interactive Session on Distribution Reforms

The session was moderated by Mr P Uma Shankar, Former Secretary, Power, Govt. of India. The distinguished panel constituted key decision and policymakers in the power sector and included: Mr Sukhveer Singh, IAS, Managing Director, Madhya Pradesh Poorv Kshetra Vidyut Vitran Co. Ltd.; Mr SK Negi, Managing Director, GETC; Mr Raghvendra Mehta, CEO, Reliance Energy – Distribution; Mr PJ Thakkar, Director Technical REC; Mr Avkash Saxena, Executive Director, PFC, and Mr Sanjaya Singhal, Group CEO, Secure Meters.

Howard E. Michel, President and CEO, IEEE said, 'IEEE is dedicated to advancing technology for humanity. We must integrate appropriate technologies with relevant standards to improve infrastructure and create employment opportunities. Power and energy are crucial elements for a successful and comfortable living environment. Hence, with growing pressure on the world's rapidly diminishing natural resources, it is important that we work toward a twofold objective, first

to effectively channelize existing resources smartly and second to leverage new forms of renewable resources.'

Vishnu Agarwal, President, IEEMA said, 'INTELECT is one of the pioneering platforms, bringing together under one roof, players in the home and office electrical sector. Our vision for INTELECT is to showcase the latest innovation and technology in lighting, modular wiring, measurement, conservation, drives, HVAC, storage of electricity, off-grid generation, house and building security, and automation control systems. Conserving energy with smart and intelligent usage is the need of the hour, and we at both IEEE and IEEMA are committed to ensuring this.'

Conference & Exposition

INTELECT, co-hosted by IEEE and IEEMA held the conference themed Smart Electricity for Emerging Markets, and the exposition focused on the connected intelligence in the Electricity of Things. The concurrent show Upto 11 kV demonstrated the readiness of the Indian electrical industry to help the Government of India to accelerate Distribution Sector Reforms and focus on rural electrification. It was a unique opportunity for the Equipment manufacturers who effectively showcased their latest equipment, technology and services and also interacted with utility officials from all across the country. The expo cum conference featured globally renowned keynote speakers and high-calibre panellists. The user-experience Smart Technology Lounge showcased cutting-edge innovations and future technologies on Home-Hotel-Hospital-Office (H3O), Digital Smart Cities, and Smart Rural Electrification.

Keynote speakers for Conference on 'Smart Electricity for Emerging Markets'

Mr Laurent Schmitt, Vice-President Strategy & Innovation, Grid Power electronics and automation, Alstom, France made a presentation on New Smart City development trends in Europe & the US. His keynote focused on the debates on air quality in megacities which are pushing for further electrification of urban transportation systems introducing new intermodal systems and mobility services which will be an accelerator to the emerging development of EV/PHEV markets. These recent trends have significantly increased the complexity to manage and operate local urban energy system infrastructures introducing new 'Prosumer' models.

Dr Raghunath A Mashelkar, President of Global Research Alliance, and Chairman of India's National Innovation Foundation National Research Professor spoke about Gandhian Engineering which refers to 'getting more from less for more people' not just 'for more profits'. It has the power of creating access equality despite income inequality. It should be driven by 'affordable excellence', so that the aspirations for high-quality goods and services by the people at the base of the economic pyramid can be fulfilled. Gandhian Engineering meets the twin advantages of competitiveness as well as equity.

Dr Michael Lightner, Associate VP Academic Affairs, CU System, Professor, Electrical, Computer, and Energy Engineering, CU Boulder spoke about Humanitarian activities in the IEEE: History and Future and how four years ago efforts to evolve and formalise these efforts were begun. For this four-year period a yearly ad hoc committee was appointed by the IEEE President to focus on Humanitarian activities. This committee was given good fiscal support and also led the way to partnering in the formation of Engineering for Change (E4C) and establishing the Special Interest Groups for Humanitarian Technology (SIGHT).

Dr Mini Shaji Thomas, Professor, Department of Electrical Engineering, Jamia Millia Islamia University, New Delhi, India talked about the concept of Smart cities India and how in India, the development of smart cities is inevitable due to the rapid urbanisation and migration to cities, choking the existing infrastructure. The need for creating smart satellite towns around bigger cities is evolving faster. However, the needs and priorities of each of these smart cities are different.

World-Class Conference Sessions

INTELECT 2015 featured 4 parallel conference tracks per day, 9 keynote speakers expressing their views on intelligent deployment and distribution of electricity, including smart cities, rural electrification, smart living technology, smarter grids and microgrids, smart living security & privacy, integration of renewables and microgrids, and IEEE's Global Humanitarian Initiative. The key speakers for this expo cum conference were eminent corporate icons and luminary academicians with varied expertise in their respective fields. Personalities like that of Laurent Schmitt – Smart Grid, Global VP, Alstom, France, Ananth Krishnan,

Chief Technology Officer, Tata Consultancy Services, Dr Roberto Saracco, European EIT ECT Labs, Dr RA Mashelkar, National Research Professor & President of Global Research Alliance, Dr Stefan Engelhardt, Vice-President, Industry Business Unit utilities, SAP SE, Bruce McMillin, Missouri University of Science and Technology, USA, and JP Faure, CEO Progilon, France spoke on key issues concerning the industry.

Key Utility Officials

Mr OP Gupta, MD, MSDECL took special interest in the event. Also, senior officials from GETCO, Reliance, MGVCL Gujarat, DGVCL, Tamil Nadu Generation and Distribution Corporation, UP Electronics Corporation Ltd, Govt of Maharashtra, Directorate of Industries, MSDECL also marked their presence at the Exhibition.

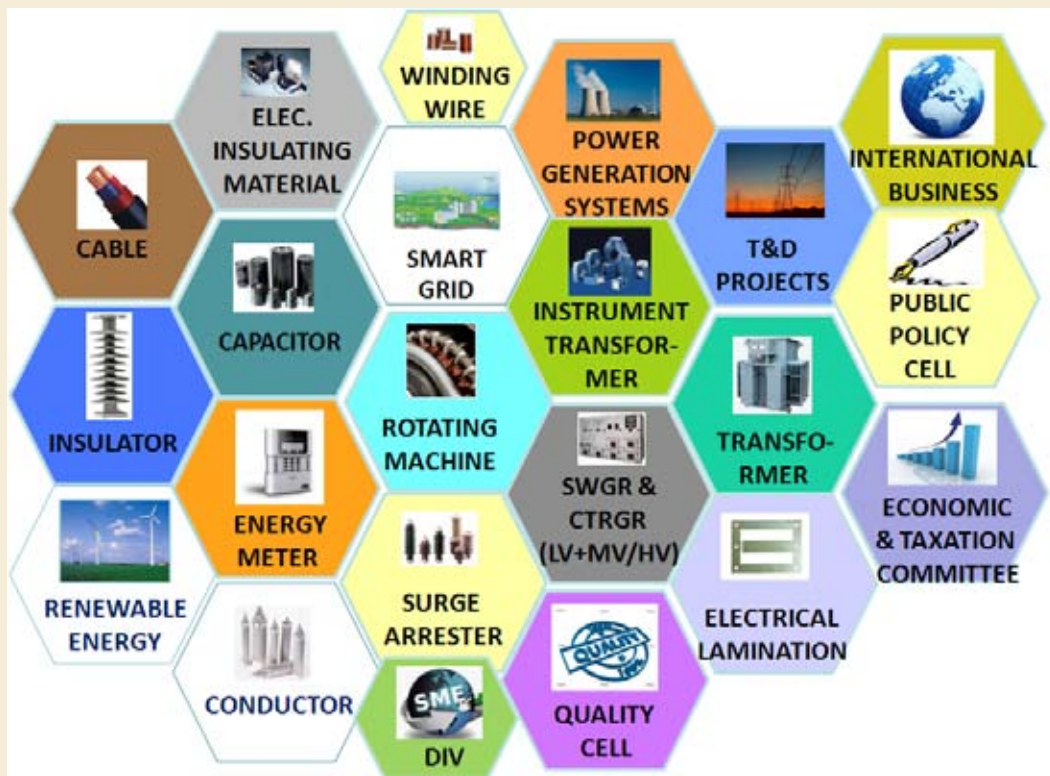
TRAINING PROGRAMMES

IEEMA Training Centre 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.

During April 2014 to March 2015, IEEMA Training Centres organised training programmes on the following subjects.

Topic	Month	Location
Energy Management System & Wide Area Monitoring, Protection & Control	April 2014	Mumbai
New Generation of Transformers & Selection of Protective Relays	September 2014	Kolkata
Currency & Interest Rate Hedging	September 2014	Mumbai
Currency & Interest Rate Hedging	October 2014	New Delhi
Currency & Interest Rate Hedging	November 2014	Kolkata
Goods & Services Tax	February 2015	Kolkata

Organised at various locations across India, these programmes received an enthusiastic response from the industry and were appreciated by participants. ■



PRODUCT DIVISION REPORTS

PRODUCT DIVISIONS' REPORTS

CABLE

Industry Size

The Indian Wires and Cable Industry is now Rs. 33,000 crores in size, which is 14% higher than the previous year. However, the CAGR of the industry for 5 years is only 10% as the year before there was a dip in the market.

In comparison, the Indian Electronics and Electricals industry, which saw a similar downturn in the previous year, has shown a growth of only 10%. The division believes that the wires and cables market is expected to witness rapid growth in the coming years due to government investments in power and telecommunication, dynamic industrialization and urbanization.

Manufacturing Capabilities

Indian manufacturers have proven that they are as capable as global players in terms of manufacturing for special applications within India as well as for Exports.

The latest entrant to product upgradation is the 220 Kv technology that has more than five players in the industry versus less than two just a few years back.

Number of Members in the Division

The total number of members subscribing to the Cable division is 112.

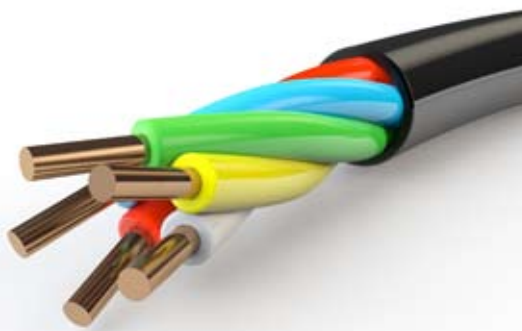
Division Meetings

Number of Division meetings: 4 meetings

- 24 July 2014
- 17 September 2014
- 25 November 2014
- 12 February 2015

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

▶ The year 2014-15 started on a little better note where the industry started showing improvements in some of the sectors. Also, marginal improvements were observed in the Light Duty cable segment. Overall capacity utilisation in the wires and cables segment was observed to be better than last year, yet not enough for profitable growth. In the last quarter most companies showed positive trends on sales but were unhappy about the overall liquidity in the market.



▶ The division undertook an important step in 2014-15 where the Aluminium price source for PV calculation was shifted from domestic price to the London Metal Exchange, which makes it easy for companies to hedge and protect their risks. From August 2013, IEEMA had started publishing LME Average price of Aluminium in the PV circulars for cables as well as conductors. Consumers of Aluminium-based products are now taking the LME's previous month's average as its base. However, the formula established for conversion of old orders on the domestic-based price versus the new LME-based PV Circulars has created a little confusion with some utilities and customers for which the division is making its best effort to engage and explain the new process.

▶ Divisional Events / Conferences: Nil in 2014-15

- Objective of the Event - Nil
- Profile of Delegates / participants (and nos.) - Nil
- Key Achievements - Nil

▶ Representations: Implementation of IS 694:2010 having Amendments 1& 2

- Objective of the Representation:

The fourth revision of IS 694:1990 (IS 694:2010) for 'Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables/Cords with rigid and Flexible Conductor for rated voltages up to and including 450/750V specification' with amendments 1&2 had been notified as IS 694:2010 vide gazette notification dated 26 November 2014. Both the old version IS 694:1990 and the revised version IS 694:2010 would run concurrently up to 1 March 2015, after which the old version stands cancelled.

Certain queries like voltage grades as per IEC and IS not matching with any of the cable standards, thickness of insulation for 1.5 sq. mm and 2.5 sq. mm cores, retain 'FR and FR-LSH' categories for all types of cables covered in the standard, etc.

A representation was sent to BIS in this context to discuss the queries found in the proposed amendment of the Standard and it was proposed to extend the implementation of the Standard for a further period of six months from the notified date of implementation of IS 694:2010 from 1 March 2015.

- ▶ Key Outcomes (Milestones achieved)
 - As proposed by IEEMA, BIS held a meeting and queries raised by IEEMA members were discussed. The proposal was accepted and the Standard was revised accordingly.

CAPACITOR DIVISION

- ▶ Industry Size: Rs. 530 crs
- ▶ Exports: Rs. 237 crs (estimated)
- ▶ Imports: Rs. 251 crs (estimated, including Project Imports)
- ▶ Number of Members in the Division: 31 organisations (including Capacitor manufacturers, manufacturers of accessories & components, EPC Contractors and others)
- ▶ Division Meetings:
 - 4 April 2014, Bengaluru
 - 17 June 2014, Bengaluru
 - 12 August 2014, Mumbai
 - 9 October 2014, Bengaluru (combined with OC meeting of CAPACIT 2014)
 - 13 February 2015, Mumbai

Number of Division meetings: 5 (Five)

Average Attendance: 12 (Twelve)

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

- ▶ Increasing awareness amongst various stakeholders of various aspects of power quality and benefits of power conditioning

The capacitor division is actively involved in increasing awareness amongst various stakeholders of aspects



and impact of harmonics and benefits of harmonic filtering.

Indian Smart Grid forum (ISGF) has invited IEEMA to various workshops conducted in different regions at Bhubaneswar, Lucknow etc. to present the application of the product. The sessions were marked by practical demonstration of harmonic analysis which increases awareness on power quality. The participants of these workshops were from state regulators, utilities, Industry etc. Participation in these smart grid workshops has helped the Capacitor division in increasing awareness of the aspects of Power Quality.

- ▶ Formulating standards for products and systems

The IEEMA Capacitor division actively participated in standards formulation as a step towards raising the industry standards in all Government Committees including BIS. Chairman, IEEMA Capacitor division is a principal member on BIS ET 29 committee on power Capacitors, Committee on formulation of Indian standards for Capacitors and its related products. Present Capacitor Division Chairman is also a member of IEC TC/33, MT 19 / MT 21 and of taskforce on revision of IEC 61921.

The IEEMA Capacitor division contributed with BIS and CPRI in the formulation of Indian Standards for Low Voltage Automatic Power Factor Correction (APFC) Panels. The division contributed actively in preparing the draft standard, participating in technical discussions including the workshop which was organised by CPRI jointly with BIS and IEEMA.

The division initiated activity with NRPC (Northern Region Power Committee under CEA) to prepare product specifications and standardise the ratings for

MV Power Capacitors. The final specifications have been submitted to NRPC for adoption and implementation.

► Incentivise export of power capacitors

Incentivising exports is a step towards de-risking the industry. Incentives (power capacitors included under FPS) are implemented in the new announced foreign trade policy FTP 2015-20 which will help to increase exports and meet the demand in global markets.

► Special Issue in IEEMA Journal on Capacitor Industry

IEEMA Journal issue of August 2014 was published as a special issue on the Capacitor industry. Seven technical articles were published along with the lead story by the Chairman on Evolution of Capacitors.

► RDSO

Members are discussing making a representation to RDSO to adopt new technology products instead of their ongoing old designs. The division had detailed discussions and arrived at two options. Members were requested to revert on either of the option. The matter is to be taken up now with RDSO.

► Activities in progress:

Mandatory BIS for select capacitor

IEEMA has suggested DIPP to include three specific types of capacitors for inclusion under mandatory BIS certification. These three types of capacitors given below are covered under BIS ET 29, though have different end use application.

- a. IS 2993 – A C Motor capacitors
- b. IS 13340 – Power capacitors of self-healing type for A C power systems having rated voltage up to and including 650 V
- c. IS 13585 – Shunt power capacitors of non-self-healing type for A C power systems having a rated voltage up to and including 650 V)

AC motor capacitors (IS 2993) are used with electric motors and have a wide end use application including industrial, commercial, agricultural, domestic/residential etc. The end use could involve installations which could be unmanned or critical installations manned by inadequately skilled persons. The safety and reliability of such diverse end use products depend to a large extent on the consistent quality and reliability of capacitors used along with motors.

Low-voltage power capacitors (IS 13340 and IS 13585) are used for reactive power compensation and harmonic filtering and are widely applied in industrial, commercial, residential and utility (DISCOM's) installations. The reliability of such power factor correction banks / panels and harmonic filters depends upon the quality of capacitors used in such installations.

The request is under estimation at DIPP and BIS.

Taskforce on type testing

The division had been discussing type test reports for a long time. The validity of type test reports is being asked differently by each utility. The same issue was being discussed in other divisions also. It was felt that the issue could be taken jointly with other divisions. A taskforce on type test was constituted with Chairman IEEMA Capacitor division as the convener.

► Divisional Events / Conferences

CAPACIT 2014, 20 and 21 November 2014, New Delhi

CAPACIT 2014, the 8th edition of a two-day international conference on capacitors organised by IEEMA was held on 20 and 21 November 2014 at Hotel Imperial, New Delhi.

The two-day event received an overwhelming response with more than 200 registered delegates and was well appreciated by receiving an excellent feedback. The two days of the conference were spearheaded with an inaugural session, five technical sessions, two keynote addresses, a divisional presentation and panel discussions.

Dr Venkatesh, Chairman of IEEMA Capacitor Division in his welcome address mentioned that though the size of the industry is small, capacitors are an integral part of generation, transmission, distribution and utilisation of electrical energy. He mentioned that 'Swachh Bharat' should just not be limited to cleaning the cities of dirt and pollution, but should extend to cleaning the electrical network of pollutions such as harmonics etc. so that we can graduate from 'Smart Capacitors for Smart Grids' to 'Clean Energy for Clean Cities'.

Mr Vishnu Agarwal, President, IEEMA in his presidential address mentioned that it has been a challenging time when he has taken over as the president with the industry witnessing a negative growth. He emphasised the importance of energy efficiency and power quality and the critical role of the capacitor industry in ensuring

energy efficiency and power quality. He thanked Dr Ajay Mathur for spearheading the energy efficiency drive. Mr Agarwal also indicated that norms for power quality and billing based on kvah and not kwh may be more appropriate and can serve as tools for improving power quality. He emphasised on the opportunity to use the 'Make in India' campaign to explore the opportunities for local manufacturing of raw materials for capacitors, about 65% of which are now being imported.

Mr N Murugesan, Director General CPRI, in his special address, traced the history of the evolution of capacitors over the past 300 years and the critical role capacitors play in the electrical power industry. He highlighted the important role played by CPRI in supporting the Indian power industry and re-affirmed its commitment to serve the Industry. Mr Murugesan also indicated that CPRI is open to carrying out tests at discounted rates as a part of a research and development programme and de-linking such developmental tests from commercial / certification testing.

Dr Ajay Mathur, Director General, Bureau of Energy Efficiency (BEE), in his inaugural address, highlighted the role of the Government and BEE in promoting energy efficiency and highlighted the investment being made in the electrical T & D sector. He emphasised the need for energy efficiency and the role of capacitors in improving energy efficiency and power quality. He enumerated the various benefits of power conditioning

such as reduction in line and equipment currents, reduction in T & D losses, release of blocked capacity, lower heating and consequent lower failure rates of power equipment, lower O & M costs, tariff-related benefits etc. He urged the industry to integrate energy efficiency and power quality into planning of electrical power systems, be it for the utilities or industry.

The inaugural session was marked by the felicitation of Mr PH Gagvani and the 'Life Time Achievement Award' was conferred on him for his special contribution to the capacitor industry, spanning more than 4 decades. The achievements and contribution of Mr Gagvani were shared with the audience by Mr Shylendra Kumar, who had worked closely with Mr Gagvani for more than a decade. Mr Gagvani in his emotional speech indicated his belief in god, prayers, self-confidence, discipline and hard work as the pillars of his achievement.

The inaugural session was followed by the first keynote address by Dr Birger Drugge, ABB, who kept the audience in rapt attention with his presentation on power quality, various aspects, impact and solutions.

First day apart from inaugural session and a keynote address had three technical sessions.

The first technical session 'Capacitor Technology – Materials, Design, Processing, Testing and Evaluation' had four technical presentations and was chaired by Mr SK Basu Mallick, Tata Steel.



Mr PH Gagvani being conferred with 'Life Time Achievement Award' at CAPACIT 2014.

The second technical session 'Standards, Standardization and Regulations' had five technical presentations and was chaired by Mr Arvind Kumar, Dy. Director, RDSO.

The third technical session 'Selection and Application of capacitors' had six technical presentations and was chaired by Mr MM Goswami, GM, PGCIL.

At the end of the third presentation sessions, delegates visited the posters gallery, where students were given an opportunity to showcase their work and network with the industry.

The second day had a keynote address by Mr Rajeev Sharma, CMD, REC, who highlighted the nodal role played by the Govt. and REC in just not electrification, but promoting energy efficiency and power quality. He aptly highlighted the needs, wants and aspirations of Indians, irrespective of living in urban or rural areas and indicated that smart grids are required even in rural areas to charge the smart phones. He shared the highlights of two recently launched programmes where energy efficiency and power quality need to be integrated into implementation of such programmes.

The keynote was followed by a presentation made by Ms Bhawna Basu on behalf of the Capacitor division highlighting the aspects related to selection, application, installation and commissioning and operation and maintenance of capacitor banks and how prudent practices in selection, application and operation could help enhance the reliability of capacitor banks. The presentation covered aspects such as proper sizing of capacitor banks, selection of appropriate series reactors, need for mandatory spare units, proper installation aspects covering grounding, electrical clearances, protection devices and their settings, etc.

and highlighted some critical maintenance aspects.

Second day had two technical sessions along with panel discussion.

The fourth technical session 'Design, Selection and application of reactive power compensation systems' had six presentations and was chaired by Mr PJ Thakkar, Director, Projects, REC.

The fifth technical session 'Harmonics- Aspects, Impact and mitigation techniques' had six presentations and was chaired by Prof Bhim Singh, IIT, Delhi. This session also had a special presentation 'Utility Views – Smart capacitors / Smart APFC' by Mr Rajesh Bansal, VP, BSES Rajdhani Power Ltd.

The technical sessions of the conference culminated in a panel discussion with a theme of 'Role of Regulator in Enhancing Quality of Power' which had six panellists: Prof Bhim Singh, IIT, Delhi, Mr Pankaj Batra, CEA, Mr Rajesh Bansal, BSES, Mr Manas Kundu (APQI), Dr Peter Goldstrass, EPCOS, and Mr Basu Mallick, Tata Steel. The panel was moderated by Mr Mustafa Wajid, Meher & Chairman of Technical Committee of CAPACIT 2014.

The conference ended with the announcement of best paper awards by Mr Mustafa Wajid, Chairman of CAPACIT 2014 Technical committee and a vote of thanks by Mr Shylendra Kumar, immediate past Chairman of the Capacitor division.

► Gaps in CPRI Testing

During the Division meeting held at CPRI on 4 April 2014, members had a joint session with the DG and senior CPRI officials, addressing the testing gaps at CPRI and suggestions to improve the same. A consolidated

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
CAPACITORS						
LT Capacitors	000'KVAR	31958	28699	-10.2	31958	89.80
HT Capacitors	000'KVAR	21459	19336	-9.9	22619	85.49
Starting/ Running Caps.	000'Nos	62543	68378	9.3	63847	107.10
Observation: Sustained decline in both LV & HV Cap as the base was high (Last year registered high growth)						

list of gaps identified by the Division with respect to Testing as per IS, IEC and customer-specific needs has been submitted to CPRI. A second meeting to review the progress was held on 17 June 2014 at CPRI.

▶ Production Statistics

IEEMA compiles production statistics each month for different ranges and types of capacitors from the data collected from manufacturers. These statistics are expected to help to analyse the Industry trend and facilitate strategic decisions by manufacturers and policy intervention by regulators.

CONDUCTOR

- ▶ Industry Size : Rs. 9,500 crs
- ▶ Exports : Rs. 1,972 crs (estimated)
- ▶ Imports : Rs. 356 crs (estimated)
- ▶ Number of Members in the Division : 69 organisations
- ▶ Division Meetings:
 - 20 June 2014, New Delhi
 - 11 September 2014, Silvassa
 - 4 December 2014, New Delhi
 - 9 March 2015, New Delhi
- ▶ Number of Division meetings: 4 (Four)
- ▶ Average Attendance: 9 (Nine)

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

- ▶ Safeguard duty investigation on import of Aluminium

Members informed that major primary aluminium producers have petitioned the Director General (DG), Safeguards for imposition of safeguard duty on Aluminium. Few manufacturers of Conductor and Cable had represented against the proposer, and the Division desired IEEMA to also represent the matter.

The Secretariat wrote to the DG – Safeguards on the same. Later, the DG – Safeguards had called for a Public Hearing with all stakeholders, including the petitioners.

The Division sought data from the members and well represented to the DG – Safeguards. As a result,

the result was in favour of Conductor and Cable manufacturers as no safeguard duty was imposed on import of Aluminium.

▶ Constitution of Divisional Technical Committee

One of the recommendations of the Mission Plan 2012-2022 of Electrical Industry to IEEMA is to set up Technical Committees under all Divisions to work on areas pertaining to standards, testing, research and development, etc. Conductor Division has formed a Technical Committee to work on activities like guiding secretariat on technical issues/queries, working with CPRI on testing gaps, Standardisation matters with BIS, review and presentation on Key Technical Parameters, Representation at IEC – TC etc.

Division also met with Director General, Bureau of Indian Standards and restarted the activities in ET-37.

Division is working actively, and is also representing IEEMA in meetings called on the issues by the Govt. agencies like CEA, REC, PFC, BIS.

▶ Interaction with CPRI on Testing Facilities

During the year, Division interacted with CPRI and identified the gaps in testing facilities at CPRI.

Members had three meetings with DG – CPRI and their senior officials which were held in CPRI, Bengaluru.

As a result, a few test facilities have been developed, and CPRI is working on the remaining fronts.

▶ Switching completely to LME-based prices in PV Circulars

Members deliberated on LME-based prices for PV Circulars and felt that prime producers are frequently changing their pricings and are also not providing regular data. Irregularity of price circulars from producers was also noticed.

In view of this, members deliberated and decided to completely switch to LME-based prices.

▶ Exploring the possibility of Conductor Training Centre at Silvassa

The Division had invited a representative of the National Skill Development Council to interact with members on the possibility of setting up training centres, particularly at Silvassa where

a lot of Conductor manufacturing facilities have been set up.

During the meeting held on 11 September 2014 at Silvassa, the NSDC representative provided detailed information on the subject. Discussions were held to explore the possibilities/areas to train the manpower in Silvassa.

A small committee of locally based members has been set up to discuss the matter with the local authorities and existing ITIs.

▶ **Sub-Committee of Hardware & Accessories**

Members from the Hardware accessories segment had showed keenness to create a forum under IEEMA.

In view of this, the Chairman informed and elucidated the working procedure to the Hardware members. He also explained the suitability required to form a Division.

It was also informed that Hardware members would have to form a Sub-Committee initially, and once the functioning of the committee is satisfactory, then the decision to convert the Committee into a new division will be taken up by the Executive Council.

After due deliberations, Sub-Committee was eventually created under the Conductor Division. Members deliberated and nominated Mr PR Gangal from EMI Transmission as Convener and Mr DS Shah from International Transmission Ltd. and Mr Shine Damodaran from SICAME as the Co-Conveners.

▶ **Meeting with REC and PFC**

Members have desired to have a joint meeting with REC, PFC and CEA to present the outcome of the Seminar on High-Performance Conductor. CEA has been requested to call for the meeting.

▶ **Divisional Events / Conferences:**

CEA - IEEMA Seminar on High-Performance Conductor

Further to the encouraging response received from the utilities and industry to the Seminar organised by the Division during ELECRAMA-2014 in Bengaluru, a National Seminar was held at New Delhi on 4 December with CEA. The Seminar brought in the policymakers and industry experts including former Power Secys, CIGRE, CEA and CTU experts to share

their thoughts on the subject, to a thundering participation of delegates from the utilities and EPCs across India.

Senior Utility officials including Managing Directors, Directors, Chief Engineers, Designers and Industry captains listened to an eminent array of speakers who attended the single-day event – including 130 delegates from the utilities and 70 from EPCs and Industry.

Need for infrastructural investments and reforms in the direction of improving the power availability scenario by optimising power transfer per unit ROW (corridor intensity in MWhr/km) to the impending need for reduction in Transmission losses (and ways and means to achieve the same) received special focus during the seminar. 'We need reduction in the resistance of HTLS solutions to cater to the highly congested and urban corridors' was echoed by Mr IS Jha, Director Projects, PowerGrid in his inaugural speech and Mr Uma Shankar (Former Power Secy to the GOI) relayed the relevance of High-Performance conductors for a futuristic approach to the planners of the country. Mr Major Singh, Member Power System, CEA set the tone for acceptability of the new-generation solutions assuring that CEA has already provided guidance and assured the utilities of CEA's full confidence in these solutions in his keynote address.

The technology providers of various high-performance conductor solutions as well as hardware solution providers presented ample case studies of their projects executed in the various Indian utilities that was well reverberated by the utilities who shared their experience with HPC. Dr Brian from CIGRE gave an enriching session on the applications and international case studies along with CEA's Mr SK Ray Mohapatra providing the true comparative and pros-cons to the network planning perspective.

The Seminar also gave insight to the participants to understand in detail stringing practices and techniques in India and internationally and peculiarities, types of hardware used, etc. The key speakers included Mr SK Negi, MD GETCO, Mr YK Sehgal, COO, CTU, Mr Indera Arifianto, PT-PLN (Persero) and Mr Aryoko Sudiro, Indonesian Utility. Other eminent speakers were from KEC, Hardware Industry etc. presented different aspects of this topic, as well as shared case studies and experiences.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
CONDUCTOR						
AAC/ACSR/AAAC	MT	331629	384278	15.9	417015	92.15

The Conductor Division also made two presentations on the products (HPC and Hardware) on behalf of the industry.

Representations were:

- ▶ Representation to Ministry of Commerce & Industry on 9 October 2014 on inclusion of Export products viz. Aluminium Conductors under the Special Focus Product Scheme benefits to avail 5% duty credit scrip, under Table 1 of Appendix 37D, under Chapter 3 of the Foreign Trade Policy, 2014-19.
- ▶ Representations to Director General of Foreign trade on 9 October 2014 on inclusion of Export products viz. Aluminium Conductors under the Special Focus Product Scheme benefits to avail 5% duty credit scrip, under Table 1 of Appendix 37D, under Chapter 3 of the Foreign Trade Policy, 2014-19.
- ▶ Representation to PGCIL on 26 August 2014 requesting change in PV formula for Conductor, change in indices to LME, to allow for returnable steel drum and highlighting variation in USD for HTLS Tenders.
- ▶ Representation to Honourable Minister of State for Commerce and Industry (IC) on 21 October 2014 on inclusion of major potential markets for export products viz. Aluminium Conductor (HSN Heading 7614 – Stranded Wire, Cables, Plaited Bands and like, of Aluminium, not electrically insulated) under the Market Linked Focus Product Scheme or Special Focus Product Scheme in the Foreign Trade Policy 2014-19 with higher export incentive to avail at least 5% duty credit scrip and thereby enhance India's export competitiveness in these markets.
- ▶ Representation to Ministry of Commerce & Industry on 21 October 2014 on inclusion of major potential markets for export products viz. Aluminium Conductor (HSN Heading 7614 – Stranded Wire, Cables, Plaited Bands and like, of Aluminium, not

electrically insulated) under the Market Linked Focus Product Scheme or Special Focus Product Scheme in the Foreign Trade Policy 2014-19 with higher export incentive to avail at least 5% duty credit scrip and thereby enhance India's export competitiveness in these markets.

- ▶ Representation to Director General of Foreign Trade on 21 October 2014 on inclusion of major potential markets for export products viz. Aluminium Conductor (HSN Heading 7614 – Stranded Wire, Cables, Plaited Bands and like, of Aluminium, not electrically insulated) under the Market Linked Focus Product Scheme or Special Focus Product Scheme in the Foreign Trade Policy 2014-19 with higher export incentive to avail at least 5% duty credit scrip and thereby enhance India's export competitiveness in these markets.
- ▶ Representation submitted to Department of Revenue, Ministry of Finance on 5 January 2015 on review of All Industry Rate of Duty Drawback for Aluminium Conductor for 2015-16.
- ▶ Representation submitted to Honourable Finance Minister on 23 July 2014 to not impose Safeguard Duty on imports of Not-Alloyed of Unwrought Aluminium.
- ▶ Representation to DGFT on 21 July 2014 on Safeguard Investigation regarding imports of Not-Alloyed Ingots of Unwrought Aluminium into India.
- ▶ Representation to DGFT on 7 May 2014, submission on initiation of Safeguard Investigation regarding imports of Not-Alloyed Ingots of Unwrought Aluminium into India.
- ▶ Representation to DGFT on 10 July 2014, Final submission on initiation of Safeguard Investigation regarding imports of Not-Alloyed Ingots of Unwrought Aluminium into India.

ELECTRICAL INSULATING MATERIALS

- ▶ Industry Size: Rs. 2,000 crs
- ▶ Number of Members in the Division: 41 organisations
- ▶ Division Meetings:
 - 7 May 2014, Mumbai
 - 18 June 2014, Mumbai
 - 1 August 2014, Mumbai
 - 10 October 2014, Mumbai
 - 26 February 2015, Mumbai
- ▶ Number of Division meetings: 5 (Five)
- ▶ Average Attendance: 10 (Ten)

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

Exports have been picking up. Domestic orders are happening but there is delay in payment cycle. Business is little bit stable. Expansion in Railways in all probability will lead to more business in the coming months.

- ▶ IEEMA Electrical Insulation System (IEIS)
 IEIS is a comprehensive insulation system 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 15 organizations who have been licensed to use this file (UL File: E318161).

- ▶ Electrical Insulation Technology (EIT) Course
 EIT is a course offered for working professionals in the Electrical Industry related to Insulation Technology. This course was designed by various stalwarts from the Insulation industry keeping in mind the constant updates and fluctuations.
- ▶ Divisional Events / Conferences:

INSULEC 2015

INSULEC 2015, the ninth two-day International Conference on Electrical and Electronic insulating materials and systems was held on 22 and 23 January 2015 at Hotel Holiday Inn, Mumbai.

A total of 30 technical papers were presented out of which, 14 were of overseas presenters.

One hundred and sixty-eight delegates from organisations like IsoVolta, El DuPont, BEICO, ELANTAS Beck, VonRoll, Crompton Greaves, Krempel, Precision Wires, Lakshmanan Isola, DSM, ABB, PRS Permacel, WEG, L&T, Permali Wallace, Sneham International, Fine Finish, 3A Associates, BHEL, ERDA, etc participated.



Dignitaries at the inaugural ceremony (L to R) (Late) Mr Nalin Sheth, Chairman Technical Committee, EIM division, Mr Ajit Singh Chouhan, Vice-President IEEMA, Ms Indra Prem Menon, Past Chairperson, EIM Division, Mr Uwe Assmuth, MD, Krempel GmBH, Germany, Mr R Krishnan, Director, BHEL, Mr IPS Khandpur, Chairman of IEEMA EIM division.

The conference was mainly on topics related to Reliable Insulation Materials and Systems pertaining to Rotating Machines, Static Machines, Cables & Winding Wires along with their Studies and Evaluation.

Lifetime Contribution (Posthumously) was awarded to Mr Nikhil Sanghvi of BEICO Industries.

Mr Sailesh Purohit of E I DuPont was felicitated with the first prize, Mr Steven S W Lee of E I DuPont with the second Prize, and the third prize was shared by Mr KD Chudasama of ERDA India and Mr Fredemar Runos of WEG, Brazil.

INTERNATIONAL BUSINESS

IEEMA members' engagement with International delegation

Members of the Indian Electrical and Electronics Manufacturers' Association (IEEMA) interacted with The Dubai Electricity and Water Authority (DEWA), Dubai, delegation on 16 February 2015 at the IEEMA office in New Delhi.

The DEWA delegation was led by His Excellency Saeed Mohammed Al Tayer – MD & CEO and Chairman WETEX. During the interaction, discussions veered on the current business interest and potential to export electrical equipment to their organisation and also future business opportunities and partnership between the two countries.

The DEWA delegation participated in the Renewable Energy Global Investment Promotion Meet and Expo (RE-INVEST) scheduled from 15-17 February, 2015 at New Delhi, organised by the Ministry of New and Renewable Energy – Government of India, on the sideline of the interaction was held.

INSTRUMENT TRANSFORMERS

► Industry Size:

The Instrument Transformers' industry in India manufactures current transformers and voltage transformers of various ratings from 0.66 KV to 765 KV, for indoor and outdoor applications. The industry also exports instrument transformers in the range of indoor up to 36 KV and outdoor above 12 KV. Over the past 2-3 years, the industry has also demonstrated its capabilities by manufacturing 1200 KV CVT for 1200 KV test station by PowerGrid at Bina, Madhya Pradesh. The estimated value of



the instrument transformer industry is about 1600 crores; comprising CTs and VTs.

► Number of Members in the Division:

The total number of member companies subscribing to the division is 64.

► Division Meetings:

Number of Division meetings: The total number of division meetings held in FY 2014-15 was 3 and they were held on:

- 29 April 2014
- 22 August 2014
- 31 October 2014.

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

Beginning of the year did not see any improvement over the slowdown of previous FY 2013-14. However, it was observed that the industry was doing good on the exports front and more exports were observed in the 66-245 KV segment. There were also some imports observed in regards to finished product in 400 KV and above range. The situation continued to be bad in the third quarter of the year also. Turnover was found to be dropping in indoor as well as outdoor ITs sector. General decline observed in all voltage segments.

Raw material prices, especially CRGO prices showed an increasing trend due to safeguard duty imposed by China, also porcelain insulator prices gone up. At the same time, product market price was found to be reducing which was putting manufacturers in a difficult situation.

Some of the issues faced by the industry are as follows:

- ▶ Non-acceptance of CPRI certification in many other countries.
- ▶ Some increase observed in the core cost but some reduction observed in copper prices.
- ▶ Rise in insulator prices.
- ▶ Divisional Events / Conferences: TECH-IT 2014 – 3rd international conference on instrument transformers

● **Objective of the Event:**

The Instrument Transformer plays an elemental and essential role in the electrical protection and metering system and proper selection of the Instrument Transformer plays a vital role. The use of modern technology is not only limited to manufacturing processes alone, but also in testing, installation/commissioning practices, applications, storage/maintenance practices etc. The main objective of the conference was to discuss various issues related to the theme of the conference – Instrument transformers for modern power system and grids.

● **Profile of Delegates / Participants**

- Product manufacturers, raw material suppliers, testing agencies, consultants and utility officials – 150 delegates
- Keynote speakers from ABB USA, PowerGrid and GECO
- Session chairmen from NTPC Ltd, Crompton Greaves, REC Ltd, CPRI and Powergrid
- 22 papers presented in 5 sessions of 2 days of conference

● **Key Achievements**

The conference with keynote speakers from ABB USA, GETCO and PowerGrid; 22 presentations in 5 sessions and 150 plus delegates, witnessed sharing latest trends and technologies and high-level interactions. Keynote speaker Mr SK Negi, MD, GETCO suggested the division to take up standardisation exercise and suggested that standardisation should focus on 3 key points – design review from the point of view of application, operation, erection, manufacturing

quality plan; consistency in standard processes and servicing.

▶ **Representations**

Meeting with CPRI Director General and other officials

A special meeting was held between IT division members and CPRI Director General (DG) and 17 other senior officials of CPRI on 31 October 2014. Different CPRI officials made presentation on existing testing facilities, at the beginning of the meeting. After this, chairman of IEEMA Instrument Transformers division made a detailed presentation on 'Gaps in Instrument Transformer testing and processes'. The presentation was based on major points, namely Commercial Issues, Operational Issues, Gaps on product testing, Full compliance with latest standards. The presentation was well received by the DG of CPRI and other officials. The discussions took place on various points raised in the presentations.

● **Objective of the Representation**

During various division meetings, the issue of gaps in testing facilities at CPRI was consistently coming up. So members felt the need to approach CPRI with a structured presentation, need of the industry, and suggestions for bridging test gaps.

● **Key Outcomes**

The DG of CPRI received IEEMA presentation well and there were interactive discussions between industry and CPRI officials. The DG of CPRI informed the members to look into the matter and try to sort the problem.

INSULATORS

- ▶ Industry Size : Rs. 2,200 crs
- ▶ Exports : Rs. 414 crs (estimated)
- ▶ Imports : Rs. 740 crs (estimated)
- ▶ Number of Members in the Division: 104 organisations
- ▶ Division Meetings :
 - 5 June 2014, Kolkata
 - 29 July 2014, New Delhi
 - 29 September 2014, Bengaluru

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-2014	2014-2015			
INSULATOR						
Disc Insulators	Nos.	8719289	7344265	-15.8	11488905	63.92
Solid core & Long Rod	Nos.	439829	402062	-8.6	607063	66.23
App-based Insulators	Nos.	1269568	1064816	-16.1	2250260	47.32

- 16 December 2014, Mumbai
- 10 March 2015, Bikaner

- ▶ Number of Division meetings: 5 (Five)
- ▶ Average Attendance: 9 (Nine)

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

▶ **Constitution of Divisional Technical Committee**

One of the recommendations of the Mission Plan 2012-2022 of Electrical Industry to IEEMA is to set up Technical Committees under all Divisions to work on areas pertaining to standards, testing, research and development etc. Insulator Division has formed a Technical Committee to work on activities like guiding secretariat on technical issues/queries, working with CPRI on testing gaps, Standardisation matters with BIS, review and presentation on Key Technical Parameters, Representation at IEC – TC etc.

The Technical Committee has been working actively, and will also represent IEEMA and the Insulator Division on meetings called on the issues by the Govt. agencies like CEA, REC, PFC, BIS.

▶ **Anti-Dumping Duty - Import of Insulators from China**

Members have been deliberating on the factors due to which imports of insulators was increasing day by day. The discussion has been mainly on following factors:

- a. Quality
- b. Domestic Production Capabilities
- c. Level Playing field

Division members also highlighted that the Insulator Industry is competent in terms of quality and domestic production is fully capable of meeting the Domestic requirements.

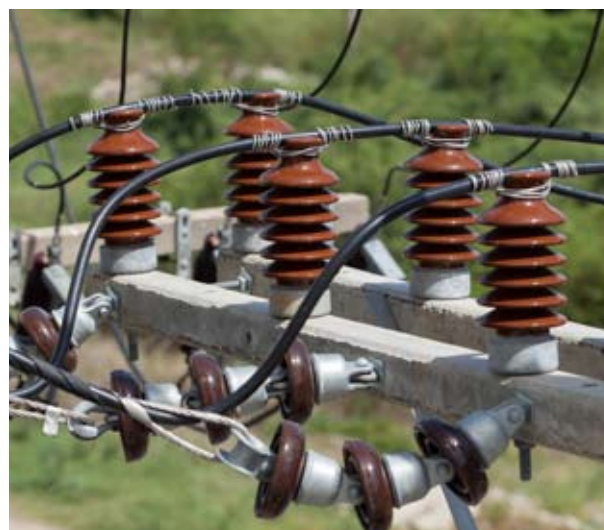
However, on price part there is no level playing field as China is getting subsidy of approximately 23% for their export to India.

Division members represented the case to the Ministry of Commerce and as a result, an Anti-Dumping duty on Import of Porcelain and Glass Insulators from China has been imposed.

▶ **Interaction with CPRI on Testing Facilities**

During the year, the Division interacted with CPRI and discussions were held on testing facilities at CPRI.

Members met with DG-CPRI and their senior officials. Whereas few Insulator testing facilities are at CPRI,



Bengaluru, others are at CPRI, Hyderabad and CPRI, Bhopal.

Members made a request to DG-CPRI to develop all the testing facilities at one site which will help the industry in terms of time and cost.

▶ **PV Clause for Composite Insulator**

Members felt a need of having a Price Variation Clause for Composite Insulators. Accordingly, in consultation with Committee members, Secretariat had developed a Price Variation Clause for Composite Insulators.

A representation has been made to PGCIL and SEBs, requesting for incorporating IEEMA PV clause for Composite Insulators in upcoming tenders.

▶ Representations made:

- Representation was submitted to Ministry of Finance on 15 July 2014 on Dumping of Electrical Insulators in India – request for early imposition of Anti-Dumping duty.
- Representation submitted to Powergrid Corporation on 22 December 2014 requesting for incorporating IEEMA PV clause for Composite Insulators in upcoming tenders.

METERS

- ▶ Industry Size : Rs. 3260 crs
- ▶ Exports : Rs. 370 crs (estimated)
- ▶ Imports : Rs. 56 crs (estimated)
- ▶ Number of Members in the Division: 49 organizations
- ▶ Division Meetings :
 - 9 May 2014, New Delhi

- 17 July 2014, New Delhi
- 27 November 2014, New Delhi
- 16 January 2015, New Delhi
- 21 March 2015, New Delhi

- ▶ Number of Division meetings: 5 (Five)
- ▶ Average Attendance: 11 (Eleven)
- ▶ Technical Committee Meetings: 4 (Four)

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

▶ **Revised CBIP Manual on Standardisation of AC Static Electrical Energy Meters.**

▶ IEEMA actively participated to draft to revise the CBIP Manual on Standardisation of AC Static Electrical Energy Meters. The manual was published by CBIP in January 2015.

▶ **BIS Standards:**

Meter Division members represented IEEMAs' view on IS 13779 and proposed the amendments in subsequent ET 13 meetings. The amendment was accepted and was circulated by BIS during the month of June 2014.

IEEMA also started the process of making IS 15884 mandatory. A representation has already been submitted to DIPP.

▶ **Smart Meter Specifications:**

Technical Committee of the Division extensively worked on drafting Smart Meter Specifications. After a year-long deliberation and discussions, a specification document was devised which was submitted to BIS for further deliberation and formalisation. The document is in final stage with BIS.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
METERS						
Energy Meters	Nos	22643	26388	16.5	22643	116.54
M.D.I.	Nos	2563	1862	-27.4	23020	8.09

► **Format for reporting Industry Sales Data:**

In view of more segregation of products within the industry, division members decided to have a new format to report the sales data. The new format is effective April 2014 onwards.

► **Metering India 2015:**

The Division decided to hold the Metering India 2015 in February 2015, which was rescheduled to April 2015 in view of the Delhi Assembly election. A committee was set up for organising the Seminar. Metering India 2015 was held in the month of April 2015 and preparation was undertaken by Division members for full FY 2014-15.

Representations made:

- Representation submitted to GUVNL on 28 April 2014 regarding difficulties related to Commercial Terms and Conditions.
- Representation submitted to TANGEDCO on 14 September 2014 regarding commercial terms in Tamil Nadu for tender of Energy Meters

POWER GENERATION SYSTEMS

Status of Industry

► **Industry Size and Status :**

The overall generation in the country has been increased from 967.150 BU during 2013-14 to 1048.673 BU during the year 2014-15. The category-wise generation performance (Changover last year) is as follows:-

Thermal	10.83 %
Hydro	-4.16 %
Nuclear	5.47 %
Bhutan Import	-10.54 %
Overall Growth rate	8.43 %

In 2014-15 as a whole, total power generation in India grew by 8.43%. During the year, hydel and nuclear power segments are expected to report poor performance. In the current financial year, south-west monsoon got delayed and the country received a subnormal rainfall. At the end of the monsoon season, rain deficiency in India stood at 12 per cent, making it the worst in five years. In spite of poor performance by nuclear and hydel power segments, total power generation in the country grew at a healthy pace. This was possible due



to double-digit growth in the thermal power segment. In 2014-15, thermal power generation grew by 11%.

In the December 2014 quarter, the government of India adopted a new gas-pricing formula. This led to over 30 per cent rise in the price of domestic natural gas. Increase in gas price will act as an incentive for gas-producing companies to raise their output.

Domestic Production Capacity

- Boiler – 24 MW
- Turbine & Generators – 27 GW
- Balance of Plant (BOP) – Adequate

Annual Domestic Production

- BHEL - 13.2 GW (15.5 GW Overall)
- Non-BHEL – 5 GW
- Total – 18 GW

Indian Industry	FY13-14	FY14-15
Boilers	14,825	13,491
Turbines	5,598	3,503
Generators	3,847	3,229
Total (BTG)	24,270	20,223*
Imports Projects	7,900	4800*
Exports	3,040	3,500*
Market Size	29130	20200

Since the last 2 years, the BTG industry has been declining consistently; Imports are also declining. This indicates decline in supply of equipment. The reasons could be attributed to delay in project at various stages.

Increase in Exports is helping to some extent to arrest the decline. Govt. of India has levied 5% custom duty on power-generating equipment to help the domestic industry which is facing stiff competition from Chinese and Korean power equipment manufacturers.

Issues

The Industry is facing the following critical issues:

- Low capacity utilisation (About 70%)
- Intense competition from China
- Execution Delays (Cancellation of Coal Blocks, Land & Environmental clearances)
- Skilled shortage

Challenges

Challenges ahead are:

- Performance Parameters of Power Generation Equipment
- Quality standards for Power Equipment
- Data on Chinese Equipment Performance
- PVC formula for Power Generation Equipment

Support is required from Government for Exports in terms of soft loans

Some BTG equipment is manufactured in India under license from foreign collaborators with Indian companies. Policy change is required for these Indian companies allowing them to export to other countries.

Investments

The Indian power generation sector has an investment potential of Rs 6.5 trillion in the 12th Plan and similar or more for the 13th Plan.

More than 250 global and domestic companies have committed to generate 266 GW of solar, wind, mini-hydel and bio-mass-based power in India over the next 5 to 10 years. The initiative would entail an investment of about US\$ 310-350 billion.

The wind energy market of India is expected to attract about Rs 20,000 crore (US\$ 3.16 billion) of investments next year, as companies across sectors plan to add 3,000 MW of capacity powered by wind energy.

Road Ahead

The Government intends to double the current production capacity in order to achieve, provide 24x7 electricity for residential, industrial, commercial and agriculture use.

The Government has rewritten the National Solar Mission with target of 100,000 MW capacity by 2022. The government has also sought to restart stalled hydro power projects and has increased the wind energy target from 20 GW to 60 GW by 2022.

Renewable energy capacity additions to 41 GW are planned till 2017 to meet the growing energy demand.

Imports- Exports FY 14-15 EXIM (source: DGCIS)

Exports of BTG – Rs. 3,500 crs

Imports of BTG – Rs. 4,500 crs

Imports of BTG through Projects – Rs. 4,800 crs

▶ Number of Members in the Division: 25 organisations (including Thermal, Hydro and EPC Players)

▶ Divisional Meetings:

- 9 July 2014
- 18 September 2014
- 26 November 2014

▶ Number of Committee meetings: 3 (Three)

▶ Average Attendance: 5 (Five)

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

A few key points discussed in the divisional meeting are as under:

▶ Performance parameters for Power Generation Industry

Members in general discussed the performance standards of CEA and the following points were raised in the meeting convened by DHI:

1. Performance standards issued by CEA in 2010 to be made mandatory. A designated agency to be identified for implementation and awarding penalties in case the operating efficiency is below that specified. In case of default, heavy penalties to be imposed on the developer also.
2. Poor efficiency in comparison to contracted efficiency level as per CEA Guidelines leads to higher coal consumption. It has been estimated that 18,000 MW commissioned during the 11th Plan based on Chinese sets will result in an extra burden on the Indian economy of about INR 1,00,000 crs.

by burning extra fuel only (at current cost) over the lifetime of the projects.

3. A Statutory Body should be set up to certify results of Performance Guarantee tests. To start with the team could be constituted of representatives from recognised bodies like CEA, BIS, etc.

▶ **PVC formula for Power Generation Equipment**

Members felt that IEEMA PVC formulas for different products are working well and helping the entire Industry. Similar PV formulas should be tried and worked out for boiler turbines and Generators which could help to consider late deliveries, delay in projects execution, etc. Also, there is need to study and understand the formula used by NTPC.

RENEWABLE ENERGY

- ▶ Number of Members in the Division: 45 organisations (including Solar Modules and Panels manufacturers and also manufacturers of Solar cables, component, EPC Contractors etc.)

- ▶ Committee Meetings: 20 August 2014
 28 November 2014
 14 February 2015

- Number of Committee meetings: 3 (Three)
- Average Attendance: 10 (Ten)

▶ **Technical Committee Meetings:**

- 20 August 2014, Delhi
- 19 December 2014, Delhi
- 13 May 2014, Delhi

- Technical Committee Meetings: 3 (Three)
- Average Attendance: 5 (Five)

Summary of Division meetings:

Objectives/ Key discussion points & achievements

Indian solar manufacturing is competitive but suffers due to lack of incentives that are provided to solar manufacturers in other nations. About 40% of the Indian solar producers have shut down with the industry utilisation at just 21%. Countries with ambitious solar energy generation plans such as China, USA and Japan have strongly supported domestic manufacturers through a number of trade and manufacturing incentives to make them even more dominant in the coming years. These measures include loans at reduced interest, credit guarantees, capital subsidies,

tax holidays, antidumping measures and preferential domestic procurement amongst others. While supporting the domestic manufacturing industry could result in moderately higher price of solar power in the short run, the cost curve would fall in the medium term as scale and supply chains develop. The concerns over unavailability of solar panels or sharp price rise can be allayed given that adequate manufacturing capacities exist in countries such as China, Korea etc. There is a cost difference of about 5-10% between the largest Chinese solar panel supplier and the largest solar panel supplier indicating availability of competitively priced imports.

It is targeted that about 100 GW of solar capacity shall be established in the country by 2022. If a sustainable domestic manufacturing industry is promoted, it can save USD 42 billion in equipment imports and will also create 50,000 direct new jobs and more than 125,000 indirect jobs over the next 5 years.

The presence of solar manufacturing within the country will also result in better energy security as it would prevent potential supply side disruptions since the country would not be dependent on imports.

Members have been discussing various issues from time to time as listed below:

- ▶ Promotion of Renewable Energy Certificate (REC)- REC mechanism is a market-based instrument to promote renewable energy and facilitate renewable energy purchase obligations amongst various stakeholders. RECs have been used extensively as



a successful market-based policy instrument to promote renewable energy.

- a. REC mechanism is NOT an incentive scheme. Rather it will enable sale and purchase of renewable component across the State boundaries.
- b. REC mechanism will coexist with all current incentive-based schemes, since most of these schemes are based on certification of generation.
- c. Though REC represents environmental attribute, it will not be related to carbon credits. These two mechanisms will operate independent of each other.
- d. After new Electricity Act, where Content & Carriage will be separated, the relevance of REC will be increased.

The discussion is to promote RECs.

► **Renewable Purchase Obligations (RPOs)**- The State Electricity Regulatory Commissions (SERCs) are empowered to specify the percentage of electricity to be procured by the obligated entities from the renewable sources of energy. Most SERCs have put significant emphasis on this provision and have issued Orders/Regulations specifying such percentages. This percentage is referred to as 'Renewable Portfolio Standard' (RPS) or Renewable Purchase Specification (RPS) or 'Renewable Purchase Obligation' (RPO).

In case of RPO obligations, percentage is not the only thing which varies significantly. Other parameters such as applicability to OA/ Captive consumers, period of obligation and compliance procedures are a few other areas where significant difference of opinion among various SERCs exists. REC mechanism will enable obligated entities to procure renewable energy from RE generator outside the State. Thus for obligated entities, several avenues will be available for purchase of REC. This will enable obligated entities to fulfil their RPO obligation.

► **Giving tax subsidies by the government for using Renewable Energy Sources**

Various tax exemptions, capital subsidies and incentives are available for several components and sub-components of the solar energy value chain. JNNSM promotes the assembly of solar modules after import

of cells which is free from import taxes. Some steps to avail subsidy can be summarised as shown:

Other benefits like 80% accelerated depreciation income tax benefits on renewable energy products including solar. Several products like Solar lanterns, street lights, blinkers and traffic signals are to be manufactured under specifications laid down by MNRE to avail capital subsidy benefits. Committee feels that more flexible tax benefits are to be given in view of current Renewable energy targets.

► **Renewable Integration Box**

Members discussed and deliberated upon framing of Technical Specifications for Renewable Integration Box and came up with the following points:

1. Small Inverters, which are converted by the contractor into solar inverters, are not being able to connect to the grids. In view of the same, the subsidy given during the installation is also of no importance.
2. Whether Inverter and Controller should be a part of Renewable Integration Box or not.
3. Importance of Smart Integration box and Solar Inverter Specification Standardisation.
4. Calculation of losses at AC and DC levels to be analysed while finalising the Specification (losses at Generator level, Inverter end, Internal/External transmission losses and Consumer end).

The Technical Committee is working on the above areas:

- Promotion and Development of standards through BIS Committee on Grid Integration
- Protection and Promotion of domestic manufacturing industry

► Representations made:

1. Representation was made in the matter of Determination of Forbearance and Floor Price for the Solar REC. A few recommendations made by IEEMA are as under:
 - Compliance of the Solar RPO targets should be implemented with all power users i.e.
 - Discoms
 - CPPs
 - Open-access consumers

- Equilibrium in the supply and off-take of the RECs should be achieved
- Rejig of the entire REC mechanism is undertaken by CERC whereby re-definition of both the Floor price and the Control period is undertaken
- The modified REC mechanism should bring fairness to the investors as also the discoms and consumers
- Involvement of investors and industry forums like IEEMA is strongly recommended in this review
- IEEMA recommends that no retrospective amendment is done and the present system valid up to 2017 continues till a revised mechanism is mutually worked out
- RECs for supply of power to Captive, Open-access and other consumers should not be multiplied by a factor (0.5 proposed)
 - Discoms are known for their poor payment record and therefore if the solar developers find an alternative market for their power, there need not be a discouragement in their effort
- RECs for Discoms/ obligated entities:
 - IEEMA do not feel that it is fair to allow discoms to claim for RECs if they exceed their RPO targets. The discoms are obligated under our National policy to bundle solar energy and in any case the Prime Minister has desired that the national Solar target should be enhanced from 20GW to 100 GW. As such the RPO targets need upward revision
 - If at all this is considered then a Category B REC can be considered when the entire
 - REC mechanism comes under full review
- Strong action against RPO defaulters is necessary

After hearing all the representations from various stakeholders, the CERC has come out with the final amendment as under:

DISCOMs to get RECs for surplus green power they would have procured. However, this is applicable only if such DISCOM has procured green power over and above RPO target set under NAPCC or National Tariff Policy or by Appropriate Commission WHICHEVER IS HIGHER. Further, before granting RECs for surplus green

power, any shortfall in RPO or any carry forward in RPO granted by Commission in PREVIOUS THREE YEARS would be adjusted first before issuance of RECs to such DISCOM. Provided further, such DISCOM would need permission from appropriate commission to procure such green power.

Implications: This provision clearly brings clear incentives for DISCOM having procured higher amount of green power beyond their RPO targets. However, since the provision brings forth conditionality of 'higher of NAPCC, Tariff Policy or State Commission mandated RPO target', DISCOM would have to align themselves first with all the three RPO targets. We can say that the Centre would now have a greater say in directing RPO trajectory which was missing so far.

Pre-Term reduction in Solar Floor/Forbearance Price. The new Floor price now stands at Rs.3500/MWh and Forbearance Price at Rs.5800/MWh.

Vintage Multiplier for Solar RECs has been introduced. Solar projects registered under REC Mechanism after 1 January 2015 would get 1 REC for every MWh of generation. Projects registered before that would get 2.66 RECs for every MWh of energy.

Implications: This provision brings a clear divide between projects that are already registered and projects which would get registered under REC mechanism from today onwards. Since the reduction of REC price would bring additional demand, the sudden spike in supply of REC would again result in subdued/ depressed clearance ratio of Solar RECs.

With the current inventory of 5.8 Lac RECs available, we can expect the inventory to shoot to about 15.5 Lac Solar RECs immediately. Further, with 538 MW Solar PV capacity already registered under REC, the inventory pile-up can increase rapidly given the multiplier effect.

Differential treatment of Captive/CGP and OA-based REC generator has been kept in abeyance. Honourable Commission has kept the decision to grant reduced number of RECs to OA/Captive-based REC Generator in ABEYANCE and has directed staff to come up with a fresh discussion paper to accommodate the same.

ROTATING MACHINES

- ▶ Industry Size: Rs. 6480 Crs
- ▶ Exports: Rs. 1567 Crs (estimated)
- ▶ Imports: Rs. 2521 Crs (estimated)
- ▶ Number of Members in the Division: 48 organisations
- ▶ Division Meetings:
 - 13 May 2014, Mumbai
 - 7 August 2014, Bengaluru
 - 14 November 2014, Delhi
 - 3 February 2015, Mumbai
- Number of Division meetings: 4 (Four)
- Average Attendance: 14 (Fourteen)
- Technical Committee Meetings: 1 (One)

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

▶ Making IS 12615 Mandatory for IE2 Motors

The Division aggressively persuaded the government department for making IS 12615 mandatory in the country so that the Nation can benefit from energy-efficient motors. In this process multiple representations and meetings were done with DIPP, MoP, BIS and BEE in the last one year to sensitise the need of mandatory energy-efficient motor standard in the country.

This was also raised by the Chairman in the IEEMA annual meeting at Mumbai with the Honourable Minister of Urban Development Mr Venkaiah Naidu to restrict import by allowing quality import of

minimum IE2 level motors and consider replacement of motors more than 20 years old (In line with power plant of over 20 years to scrap) with energy-efficient IE2 and above motors. This will save annual energy of over 1 Billion USD.

▶ High Import Surge:

In this process, it was decided to conduct a comprehensive study with third-party consultant under certain tariff headings (85015330 & 85015390). This surge was somewhat contradictory to the less number of domestic projects in the country.

The study is in progress and will be concluded soon to represent a case to the Government of India, if required.

▶ Gaps in Testing Facility at CPRI, Bengaluru

The Technical Committee of the Division held a meeting and identified gaps in the testing facilities of the Rotating Machines. A consolidated list was presented to CPRI Bengaluru in the presence of the then CPRI DG, Mr Murugesan.

A joint technical committee was formed with CPRI to work on these gaps.

Representations made:

- ▶ Representation submitted to DIPP in the month of May 2014 regarding Mandatory IS 12615 for IE 2 motors in India.
- ▶ Representation submitted to the Ministry of Small and Medium Enterprise for reconsidering the Public Procurement Policy for Micro and Small Enterprises Order, 2012 for reserving the purchase of up to 100kw 440v Induction motors for Small and Medium Enterprises.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
ELECTRIC MOTORS						
FHP Motors	KW	966	1146	18.6	966	118.63
Squirrel Cage Motors	KW	10208	9053	-11.3	10399	87.06
Slipring Motors	KW	263	282	7.2	690	40.87
Flame Proof Motors	KW	409	445	8.8	491	90.63
D. C. Motors	KW	404	343	-15.1	618	55.50
A. C. Generator	KVA	10725	10676	-0.5	10725	99.54
HT Squirrel Cage Motors	KW	2675	2651	-0.9	4181	63.41
HT Slipring Motors	KW	479	427	-10.9	910	46.92

MV&HV SWITCHGEARS

- ▶ Industry Size: Rs. 3500 crs
- ▶ Exports: Rs. 1000 crs (estimated)
- ▶ Imports: Rs. 700 crs (estimated)
- ▶ Number of Members in the Division: 60 organisations
- ▶ Division Meetings:
 - 25 April 2014, Mumbai
 - 23 June 2014, Mumbai
 - 12 September 2014, Mumbai
 - 18 November 2014, Vadodara
 - 3 February 2015, Mumbai
 - Number of Division meetings: 5 (Five)
 - Average Attendance: 10 (Ten)
 - Technical Committee Meetings: 1 (One)

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

Division Meeting Attendance Revival

The Chairman and Vice-Chairman worked closely with the Secretariat to revive the membership participation in 2015 and accordingly the meetings were held once

every quarter as per the desired norm.

In addition to sending request letters to heads of the respective organisations, customer meetings were held to make the meetings more beneficial for all members. Since then, an average of 10 members' attendance was achieved, yet there is a need to stimulate more participation from members.

Techno Commercial Issues with various Utilities:

A comprehensive matrix was devised listing all the technical and commercial issues with various Utilities across country that are not encouraging to the health of the industry.

The Division worked closely with the Transformer Division and identified common utilities to send combined representations. The topic requires a final resolution.

Gaps in Testing Facility at CPRI, Bengaluru

The Technical Committee of the Division has identified CPRI testing gaps in the MV&HV Switchgears industry.

The same will be represented to CPRI.

Customer Interaction

In the last one year Division members met Managing

IEEMA Statistics - Production Trend of Major Portfolio elements						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
SWITCHGEARS *						
Isolating Switches	Nos	12483	16377	31.2	37175	44.05
MV Outdoor Circuit breakers [Up to 33kV]	Nos	25527	29464	15.4	29464	100.00
MV Indoor Circuit breakers [Up to 33kV]	Nos	35183	33727	-4.1	35183	95.86
HV Outdoor Circuit breakers [Above and including 66kV]	Nos	6219	7097	14.1	7097	100.00
MV Custom built products						
UPTO 15.00 kV	Rs.Lakhs	70829	60771	-14.2	81764	74.32
Above 15.00 kV	Rs.Lakhs	15766	15296	-3.0	16012	95.53

Director GETCO, Mr SK Negi and Advisor to Tata Power, Mr Deepak Raina. Both the officials touched upon the current Medium and High-Voltage switchgears requirements and issues faced with the Industry. Also, they shared their future perspective of the industry.

They emphasised on aligning of the Switchgears with Smart Grid requirements and how the industry can move forward.

Reconvening of the CEA committee on GIS:

IEEMA initiated the reconvening process of the CEA committee of GIS. In the process a comprehensive report was submitted, it comprises:

- Benefits and Techno Commercial Comparison of GIS over conventional AIS Switchgear
- Existing Manufacturing facilities, capacities and portfolio in India
- Major Manufacturers
- Key Manufacturing technologies
- Present Manufacturing Capacity of India
- International Standards present for GIS
- List of current Discoms and Utilities having GIS
- Testing facilities in India
- Status of Indian Standards and steps being taken for preparing IS for GIS
- Present hindrance for use of GIS in India and Views for promoting GIS in future

IEEMA made an official representation to the CEA requesting them to reconvene the GIS committee.

Preparation for SWICON 15:

The division is collaborating with LV Switchgears Division for successful conduct of SWICON 2015 Conference, scheduled to be held during November 2015 at Mumbai.

Others

The Division engaged actively with other IEEMA units during the period. The Division presented the industry's requirement to the Public Policy Cell on Inverted Duty Structure, procedural simplification needs on Customs and Excise for the Cell's consideration to include in their representation to the Ministry.

LV SWITCHGEAR

- ▶ Industry Size: Rs. INR 11,200 crs
- ▶ Exports: Rs. 3470 crs (source: DGCIS)
- ▶ Imports: Rs. 5148 crs (source: DGCIS)
- ▶ Number of Members in the Division: 91 organisations (including LV Switchgear Manufacturers, Manufacturers of accessories & components, EPC Contractors and others)
- ▶ Division Meetings:
 - 25 April 2014, Mumbai
 - 23 June 2014, Mumbai
 - 12 September 2014, Mumbai
 - 19 December 2014, Mumbai
 - 20 February 2015, Mumbai
 - Number of Division meetings: 5 (Five)
 - Average Attendance: 12 (twelve)
- ▶ Technical Committee Meetings:
 - 25 July 2014, Mumbai
 - 7 November 2014, Mumbai
 - Number of Technical Committee Meetings: 2 (two)
 - Average Attendance: 5 (five)

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

▶ Production statistics

1.0 The Division regularly analyses the production trend for major LV Switchgear products compiled and collected by IEEMA. The detailed discussions are done on growth and de-growth of product by studying the MAT average charts for at least a three-year period.

2.0 Analysis of imports of products in 'others' category

During detailed discussions on production analysis imports was seen a matter of concern. The major constituents were not transparent within these imports figures, as more than 80% is being contributed by products reported in the category 'others' – Others (under 8535 and 8536) division decided to do deeper analysis on these Import figures for products covered under 'others'. TPM consultant was engaged to study imports under 8535 and 8536 product-wise and source-country-

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
SWITCHGEARS *						
Relays & Timers	000'Nos	1197	1102	-7.9	1197	92.06
Contactors	000'Nos	7734	8527	10.3	8505	100.26
Motor Starters	000'Nos	1765	1808	2.4	1909	94.71
Power Switches	000'Nos	38	24	-36.8	88	27.27
Switch Fuse & Fuse Switch Units	Nos	722772	542503	-24.9	947878	57.23
LT Circuit Breakers						
a) Miniature Ckt.Br.	000'Poles	109569	114970	4.9	116151	98.98
b) MCCB. (Single & Multi Pole)	Nos	1559344	1730065	10.9	1719090	100.64
c) A.C.B.	Nos	93826	94979	1.2	100244	94.75
Relay/Control Panel						
MCC & Switchboards Rs. Lakhs	Rs.Lakhs	124789	124657	-0.1	168180	74.12
HRC Fuses	000'Nos	10338	11401	10.3	13225	86.21
Overload Relays	000'Nos	2883	3202	11.1	3579	89.47

wise. The Division analysed figures in terms of value and volume and observed that actual threat/ impact of import from China is not too high in value and volume both. The gross import data captured under tariff code 8536 and 8535 contains an extremely high proportion of non-LV switchgear items which had caused a heightened perception of threat. A separate study of Chinese-end export data (to India v/s RoW) in terms of price levels and value resulted in similar conclusion.

► Divisional Events / Conferences:

SWICON 2015, International Conference on Switchgear was scheduled in November 2015. Members were actively involved in the activities of Conference Organising and Technical Committee.

► Divisional Technical Committee

One of the recommendations of the Electrical Industry Mission Plan 2012-2022 of the DHI to IEEMA is to set up Technical Committees under all

Divisions to work on areas pertaining to standards, testing, research and development, etc. Low-Voltage Switchgear Division has formed a Technical Committee to work on activities like guiding the secretariat on technical issues/queries, working with CPRI on testing gaps, Standardisation matters with BIS, Representation at IEC – TC etc.

The Technical Committee has been working actively by reviewing the IS and IEC standards as and when sent by BIS and providing comments to BIS. The Technical Committee convener represents IEEMA in different Government meetings called by Government agencies like CEA, REC, PFC, BIS, etc.

► New format of reporting the production data for Wiring Accessories

The division devised a new format of reporting the production data for Wiring Accessories. The format was finalised and circulated to collect the production figures in this format.

- ▶ Format on production data for Disc-Connectors /Isolators/Load Break Switches and Change Over Switches

Division decided to collect data for 'Change over Switches, Disc-Connectors & Isolators'. It was decided to circulate the format only for Change over switches to compile the data from April 2015.

- ▶ Production Statistics

IEEMA compiles production statistics each month for different low-voltage switchgear products from manufacturers. These statistics are compiled to analyse the Industry trend and facilitate strategic decisions by manufacturers and policy intervention by regulators.

Improvements in major items of LV Switchgear like Contactors, Breakers and Relays especially post 2nd Quarter.

SMART GRID

- ▶ Number of Members in the Division: 28 organisations
- ▶ Division Meetings:
 - 8 May 2014, New Delhi
 - 22 July 2014, New Delhi
 - 19 September 2014, New Delhi
 - 28 November 2014, New Delhi
 - 11 February 2015, New Delhi
- Number of Division meetings: 5 (Five)
- Average Attendance: 9 (Nine)

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

Roadmap for IEEMA Smart Grid Division

At the beginning of the year Members discussed and decided to formulate a roadmap for IEEMA Smart Grid Division. A questionnaire was formed and widely circulated. Based on these inputs a two-page document on IEEMA Smart Grid Division was devised.

It was decided to further circulate it to the entire IEEMA membership.

EFC Proposal for Establishment of NSGM in Power Sector

The Ministry of Power has released EFC proposal for establishment of NSGM in Power Sector. After long deliberation on Objectives of Mission, Highlights of

Mission and Composition of Mission and also targets of Mission for the next 12 months and 2-5 years. During the discussion, members suggested that IEEMA has to be in Steering Committee in addition to Technical Committee of NSGM. A representation has since been made to the Additional Secretary, Ministry of Power to present IEEMA's case in this regard.

Promotion of IEEMA Smart Grid Division:

To promote the Division, in addition to meeting with various stakeholders and government officials, presentation in various IEEMA forums was planned. Further a Smart Grid presentation during the 8th T&D Conclave was undertaken by the Division Chairman.

Representations Made:

- The new Integrated Power Distribution Scheme document excluded 'Distribution automation and IT applications (except ERP and customer Care services)' which is a vital part of the robust power distribution network. Representation submitted to the Ministry of Power regarding inclusion of SCADA into IPDS.
- To highlight the threat from import of the critical infrastructure equipment, particularly from China and also to the point out how such imports will obstruct the 'Make in India' dream. Representation submitted to the Ministry of Power and National Security Advisor on cancellation of projects awarded to Chinese companies.
- Representation submitted to Power Finance Corporation with suggested changes in RAPDRP RFP in SCADA – DMS implementation on 1 August 2014.



SURGE ARRESTER

Surge Arrester Division Annual Report 2014-2015

- ▶ Industry Size: Rs. 150 crs
- ▶ Exports: Rs. 47 crs (estimated)
- ▶ Imports: Rs.22 crs (estimated, including Project Imports)
- ▶ Number of Members in the Division: 21 organisations (including Surge Arrester manufacturers, manufacturers of accessories & component, EPC Contractors and others)
- ▶ Division Meetings: 20 May 2014, Hyderabad
28 July 2014, Bengaluru
25 September 2014, New Delhi
24 December 2014, Bengaluru
24 February 2015, New Delhi
 - Number of Division meetings: 5 (five)
 - Average Attendance: 4(four)

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

▶ Gaps in CPRI Testing:

During the year the division took up this activity on priority. The revised IEC -60099-4, June 2014 was published and released. The first meeting was held at CPRI on 28 July 2014, with Director General and senior CPRI officials, addressing the testing gaps at CPRI and suggestions to improve the same. A consolidated list of gaps identified by the Division with respect to Testing as per IS, IEC and customer-specific needs was presented and submitted to CPRI. The next meeting was held on 24 December 2014 at CPRI to discuss the testing procedures according to the revised IEC- 60099, June 2014.

▶ Divisional Technical Committee

One of the recommendations of the Electrical Industry Mission Plan 2012-2022 of the DHI to IEEMA is to set up Technical Committees under all Divisions to work on areas pertaining to standards, testing, research and development, etc.

Technical Committee has been constituted to work on activities like guiding the secretariat on technical issues/queries, working with CPRI on testing gaps, Standardisation matters with BIS, presentation on Key Technical Parameters, Representation at IEC – TC, etc. The Committee has been working actively with the Government agencies like CEA, BIS, etc. and represents the IEEMA Surge Arrester Division in all such meetings.

▶ Format for compilation of production data and applicable single unit quantity code

IEEMA Production Data could not be compared with import and export figures released by DGCIIS, as the units of measurement for Lighting Arresters were in 'kg' which IEEMA represent to be changed to unit numbers. In the Budget 2014-15, the Government has changed the unit of measurement occurring against all tariff items under 85354 (Lightning Arresters) from 'kg' to 'nos' under both Central Excise and Customs Tariff Act. The issue of unit of measurement from kilograms to numbers stands resolved.

▶ Surge Arrester publication – Selection & Application Guide

The Division has decided to revisit and revise the contents of old IEEMA publications 'Selection and Application guide for Surge Arresters'. After the

IEEMA Statistics - Production Trend						
NAME OF PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
Polymer Surge Arresters - Domestic & Export sales	Nos.	282234	353029	25.1	353029	100.00
Porcelain Surge Arresters - Domestic & Export sales	Nos.	602375	564207	-6.3	602375	93.66

release of revised IEC- 60099 in June 2014, members decided to revise the contents of 'Selection and Application guide for Surge arresters' with BIS Committee members. Subcommittees have been constituted under BIS ET30 Committee to draft different chapters and division members are a part of each subcommittee.

▶ **Model Purchase Contract**

IEEMA Transformer division had drafted a Model Purchase Contract document based on the terms and conditions followed by different utilities across the country. The draft document finalised by the Transformer division is being discussed by the Surge Arrester division.

▶ **Extension of Type test Reports**

The Division had discussions regarding type test reports. The validity of type test reports is being asked differently by each utility. The same issue was discussed in other divisions also. Various IEEMA product divisions have in the recent past raised issues related to the validity, applicability and acceptance of type test report by various utilities. Secretariat requested to consider if the issue could be taken jointly with other division by constituting a taskforce. Members agreed to take the concern jointly with other divisions. The Chairman and Mr V Sasikumar were nominated as the members of the taskforce.

▶ **Divisional Events / Conferences:**
SURGEPROTECH 2016

The first International Conference cum Tutorials on HV Surge Arresters technology and Applications was held in November 2012, New Delhi, The Second Conference cum Tutorials SURGEPROTECH 2016 with the theme 'Arresters for fail-safe protection' will be organised in April 2016 to understand the latest technological developments in the field of Surge Arresters with emphasis on the revised IEC -60099-4, June 2014. The Conference is being organised jointly with POWERGRID.

Observations: Sharp increase in Polymer Surge Arresters however marginal decrease in Porcelain; increase in Export of Polymer Surge Arrester too.

TRANSFORMERS

- ▶ Industry Size: Rs. 10,600 crs
- ▶ Exports: Rs. 3,500 crs (estimated)
- ▶ Imports: Rs. 3,300 crs (estimated, including Project Imports)
- ▶ Number of Members in the Division: 170 organisations (including Transformer manufacturers, manufacturers of accessories & component, EPC Contractors and others)
- ▶ Division Meetings:
 - 17 April 2014, Vadodara
 - 10 June 2014, New Delhi
 - 14 August 2014, Mumbai
 - 16 October 2014, Bengaluru
 - 11 December 2014, New Delhi
 - 27 February 2015, Mumbai
 - Number of Division meetings: 6 (Six)
 - Average Attendance: 32 (Thirty-two)
- ▶ Technical Committee Meetings:

10 June 2014, New Delhi 14 August 2014, Mumbai 16 October 2014, Bengaluru 11 December 2014, New Delhi 27 February 2015, Mumbai 24 July 2014, Mumbai 20 March 2015, Mumbai	TC meeting held with division meetings
Only Technical	

 - Number of Technical Committee Meetings: 7 (Seven)
 - Average Attendance: : 6 (Six)



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

▶ **Steel & Steel Products Quality Control Second Order for mandatory BIS certification on CRGO.**

IEEMA has been representing to the Ministry of Steel and other ministries on the Second Quality Control Order notified for mandatory BIS certification of CRGO. The Order has come into force on 1 October 2014.

▶ **Electrical Transformer Quality Control Order: Mandatory certification of BIS under IS: 1180**

Electrical Transformer Quality Control Order was issued by DHI on 27 January 2014 to mandate BIS regulations on transformers as per IS 1180 (Part I): 2014. The purpose is to regulate manufacturing, sale, storage and import of Transformers as per IS 1180.

A panel constituted by BIS has amended the IS: 1180 (Part 1 & 2) in July 2014 to expand the coverage of ratings from 100kVA to 2500 kVA, amongst other areas. The Quality Control Order has come into effective w.e.f 1 February, 2015. IEEMA and BIS have requested DHI to extend the same by 6 months.

▶ **Constitution of Divisional Technical Committee**

One of the recommendations of the Mission Plan 2012-2022 of Electrical Industry to IEEMA is to set up Technical Committees under all Divisions to work on areas pertaining to standards, testing, research and development, etc. The Transformer Division has formed a Technical Committee to work on activities like guiding the secretariat on technical issues/queries, working with CPRI on testing gaps, Standardisation matters with BIS, review and update Transformer Standardisation Manual, presentation on Key Technical Parameters, Representation at IEC – TC, etc.

The Technical Committee has been working actively, and will also represent IEEMA and the Transformer Division on meetings called on the issues by the Govt. agencies like CEA, REC, PFC, BIS.

▶ **CEA Directive on Short Circuit Test**

The Secretariat organised a meeting with CEA officials regarding the directive for short circuit testing of Transformers. The Division represented their concern regarding the applicability of the same

and proposed modifications in the directives to CEA to amend the clause.

▶ **Model Purchase Contract**

The Transformer division set up a committee under the convenorship of Mr Bapu Amritkar from EMCO to draft a Model Purchase Contract document based on the terms and conditions followed by different utilities across the country. The draft document was finalised by the division and is under review by all other concerned divisions to make it final.

▶ **New Price Variation Clause for Power Transformers**

A sub-committee under the convenorship of Mr Harish Dave of Bharat Bijlee has evolved the new PV formula for Power Transformer by following IEEMA's standard process. The new PV formula will be made effective from 1 April 2015. A similar exercise is under way for revising the PV formula for Distribution Transformers.

▶ **Special Issue in IEEMA Journal on Transformer Industry**

IEEMA Journal issue of October 2014 was published as special issue on the Transformer industry. Six technical articles were published along with a cover story.

▶ **Divisional Events / Conferences: None**

▶ **Seminar on Standardisation, Certification and Quality Control of Distribution Transformers in association with BIS:**

Bureau of Indian Standards, jointly with IEEMA, ITMA and ICA organised a seminar on Standardisation, Certification and Quality Control of Distribution Transformers on 9 January 2014 at India Habitat Centre, New Delhi. The seminar was attended by distribution transformer manufacturers, utilities, regulators, testing agencies, etc.

The Seminar was organised to discuss the revised IS 1180(Part-1):2014 - Outdoor type, insulated liquid immersed Distribution Transformer up to and including 2500kVA, up to system voltage of 33kV that has come into force for mandatory BIS certification w.e.f 1 February 2015.

▶ **Online Monitoring of Distribution Transformers**

The Rural Electrification Corporation (REC) had called a meeting on 4 March 2015 to discuss remote

monitoring of the Distribution Transformers so as to capture parameters like voltage, current, oil temperature, oil humidity, oil level with the help of sensors/IT equipments. IEEMA was asked to prepare the technical specifications for the online monitoring mechanism for DTs ratings up to 200kVA and above 200kVA. The Technical Committee constituted a sub-committee under the convenorship of Mr Vinamra Agarwal of Technical Associates, comprising representatives from Schneider, Prolec GE, Toshiba & Kotsons and Sharika Enterprises (a solution provider) to evolve the specs for Distribution Transformer Monitoring Systems (DTMS).

► **Implementation of CEA's Regulation Regarding Short Circuit Testing:**

CEA 2010 regulations on Short Circuit testing were introduced as a mandatory requirement, where Short Circuit test has to be conducted once in 5 years on one each type and rating of transformers to validate the design and quality, unless any change is brought in the design parameters. But with the limitations of the existing testing facilities in India, this test was not given due importance by the state utilities and the transformers were being supplied without this test. Hence CEA issued a directive in September 2014 to all the stakeholders for ensuring that the transformers being supplied by various manufacturers have been subjected to Short Circuit as per relevant IS/IEC standard meeting the requirements of the regulation notified in regulation 2010.

IEEMA made a representation to CEA proposing that short circuit testing should not be specified as universal, mandatory type test for power transformers and in cases where it is felt necessary based on applications, this test is to be considered only if it is cost-effective. Based on the representation, CEA called a meeting on 13 March 2015 to discuss this issue where IEEMA presented following aspects pertaining to short-circuit testing of transformers.

- a) The test should be considered as a special test and requirement should be decided between the purchaser and the supplier.
- b) Additional cost pertaining to this test is being borne only by NTPC, whereas for all other utilities including Powergrid, this expenditure is on

manufacturer's account which is an additional financial burden.

- c) The validity of the type test be extended up to 10 years.
- d) Theory of equivalence defined in Annexure-B of the IEC 60076 document to be included in the CEA Directives.

CEA has acknowledged that the present standing regulations need modification and shall notify the draft amendments.

► **Gaps in CPRI Testing:**

During the Division meeting held at CPRI on 16 October 2014, members had a joint session with senior CPRI officials, addressing the testing gaps at CPRI and suggestions to improve the same. A consolidated list of gaps identified by the Division with respect to Testing as per IS, IEC and customer-specific needs has been submitted to CPRI.

- Revision of Standard for Radiators (1990) and Evolving Standard for other fittings covered under IS 3639

The Technical Committee had allotted the task of revising the standard for Radiators to Mr ML Jain from Emco, who is also the convener of the panel of BIS ET-16 Committee for preparation of the Indian Standard for Radiator. During the Technical Committee meeting on 20 March at Mumbai, the document was finalised and has been submitted to BIS for adoption as national standard under IS 3639.

Further, during the same Technical committee meeting, members distributed the task of evolving standards for other fittings covered under IS 3639 such as Heat Exchanger, Valves, Valve flanges, Temperature indicators (OTI & WTI) and Thermometer Pockets, Buchholz Relay, Pumps and Fans, MOG, PRD, OFI, Breather, Sudden Pressure Relay, Earthing Terminal, Rollers and Neutral Grounding, Bus bar and Support, Fibre Optic Sensors, Air Cells, Shock Recorders, Cabling, Conduits, Cable Trays.

► **Standardisation of specifications for Transformers**

During the Technical Committee meeting on 20 March, 2014, members deliberated that Utilities across the country are not following standard specifications for Power Transformer. The CBIP manual published last year contains all the Power

IEEMA Statistics - Production Trend						
Particulars	CUMULATIVE & MAT			Previous Highest Annual Production	Utilization Factor %	
	Apr-14	Mar-15	Apr-13			Mar-14
	Acc. Unit: MVA					
Dist. TRF - Prodn	42170		40086	5.20	43453	97%
Dist. TRF - Export	3652		2693	35.61		
Power TRF - Prodn	143673		169030	(-) 15.00	178782	80%
Power TRF - Export	14346		10188	40.81		
	Acc. Unit: Numbers					
Dist. TRF - Prodn	331130		298855	10.80	370484	89%
Dist. TRF - Export	15712		10937	43.66		
Power TRF - Prodn	2609		2327	12.12	2912	89%
Power TRF - Export	295		153	92.81		

Transformer ratings, and for losses as stipulated under IEEMA-25 document may be recommended.

It was decided that IEEMA shall suggest the combination (CBIP manual and IEEMA-25) to CEA for standardising Power Transformer ratings. The document is being finalised. It was also decided to request CEA to standardise the ratings for Distribution Transformers as per the IS 1180(Part-1):2014, and issue suitable directive to all utilities.

▶ Defining framework for 'Latent Defect'

During the Technical committee meeting on 20 March, members felt that a paper may be generated so as to define this clause.

Representations made:

- To Chairperson, Central Electricity Authority vide letter dated 11 November 2014 and 20 January 2015, raising concerns over the directive pertaining to Short Circuit Test of Transformers. IEEMA has stated that Short Circuit Test may be considered a special test, where requirement of this test may be decided mutually by the supplier and purchaser. The Validity of the test may be extended up to 10 years. Further the Theory of equivalence defined in Annexure-B of the IEC 60076 document may be included in the CEA Directives.
- To Chairperson, CEA vide our letter dated 23 March 2015 for standardisation of the specifications for DT as per IS 1180(Part-1):2014 in line with the Electrical Transformer (Quality Control) Order issued by DHI. IEEMA has requested CEA to issue directives to all

state utilities, Discoms and other organisations to purchase distribution transformers of standard ratings only as specified in IS 1180(Part-1):2014 that has been notified for mandatory BIS regulation. In the guidelines/directive, CEA may recommend not to procure 'non-preferred' ratings.

- Decline in Power Trf. by 15% despite 36% growth in Exports
- Moderate growth of 5% in Dist. Trf. by 8% Growth in 'Numbers' for DTs & PTs indicate lower KVA Avg. per Transformer
- High Export growth especially in 132 & 220 KV segment

T&D PROJECTS

- ▶ Transmission Industry Size: INR 6500 Crs
- ▶ Distribution Industry Size: INR 8500 Crs
- ▶ TLT Industry Size: INR 10,080 crs
- ▶ Exports: INR 1,930 crs (estimated)
- ▶ Imports: INR 31 crs (estimated)
- ▶ Number of Members in the Division: 138 organisations (including EPC Contractors and others)
- ▶ Division Meetings:
 - 2 May 2014, New Delhi
 - 5 June 2014, Kolkata
 - 10 July 2014, Hyderabad
 - 5 August 2014, Vadodara
 - 30 October 2014, New Delhi
 - 25 January 2015, New Delhi
 - 13 March 2015, New Delhi

- Number of Division meetings: 7 (Seven)
- Average Attendance: 17 (Seventeen)

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

▶ **Non-Closure of Projects:**

Members deliberated and raised serious concern on 'non-closure of contracts' due to which sufficient capital is blocked with SEBs and CPSUs. It was mentioned that a number of contracts were fully/partially commercialised, but are not closed.

Data was sought from member companies and representation was made to PGCIL and the Ministry of Power.

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

Members deliberated and 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.

The 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.

In subsequent discussions with Powergrid and CEA, 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.



Thereafter, IEEMA was advised to prepare these formats milestone-wise rather activity-wise.

Finally, all formats have been prepared and submitted to the Committee (PGCIL, CEA & IEEMA) formed by the MoP for final deliberation.

▶ **Tower-wise packing of angles stipulated by Powergrid**

Members informed the secretariat regarding a decision taken by Powergrid for switching to Tower-Wise bundling, which was based on the material loss experienced in the present packaging being generally practiced by the industry.

The matter was well deliberated in the Division and a decision was taken to conduct a detailed exercise to understand the shortages during dispatch of material.

Accordingly, data was sought from all member companies and matter was presented by the committee to the Powergrid.

▶ **Change in format of JPC Indicative market prices in PV Formula**

In April 2014, Joint Plant Committee (JPC) had changed the 'JPC Indicative Market Prices' with 'JPC Market Price (Retail)' which was different from the earlier indices. The basis of the indices was the prices collected from various traders located in the 4 metros i.e. New Delhi, Mumbai, Chennai and Kolkata.

Members discussed the issue and decided to switch over to new 'JPC Indicative Prices'.

Accordingly, the Secretariat did the necessary changes and circulated the information to the Division as per the switchover mechanism of IEEMA.

► **Utility Outreach Initiative of T&D Projects Division**

T&D Projects Division had generally focused its activity around issues related with Powergrid. Members felt the need to diversify activities, particularly with State Utilities. The initiative was termed Utility Outreach Programme.

The concept of conducting Utility Outreach programme under T&D Projects Division was initiated during the Division meeting held on 21 January 2013 in Bhubaneswar. The objective of the Outreach programme was to interact with state utilities which have large programmes on electrification, generally follow Powergrid specifications and have reasonably good working environment.

Subsequently, four regional teams were set up to identify prospective states for conducting these programmes, based on short to medium-term business potential in those states and responsibility was assigned to them. It was decided to keep the date for the utility outreach programme after consultation with the utility Heads, which was conducted over cocktails and dinner. The Division meetings were also aligned with the Outreach programmes.

The first Utility Outreach Session was organized in Jaipur on 4 May 2013, which was attended by the Chairman of all Rajasthan DISCOMs, and MDs of Jaipur and Jodhpur Discoms along with senior officials from all DISCOMS. Twenty-five members from T&D Projects Division also participated.

After receiving an overwhelming response from the Utilities officials including CMD/ MDs, subsequent programmes were held in Bengaluru, Mumbai, Panchkula, Guwahati and Hyderabad.

At a later stage, the IEEMA Executive Council appreciated the efforts of T&D Projects Division to understand the necessity of the interaction of all IEEMA members with the Clients. Thereafter, the IEEMA Executive Council has taken up the activity and conducted Utility Outreach Programme in different regions.

► **Substation Data Collection format:**

In a few T&D Projects' Division meetings, members felt that similar to the tower production data, it would be useful to collect data on substations, which will help IEEMA in taking up industry issues more strongly with the Government.

The Secretariat prepared a draft format for collecting the Substation data, after compiling inputs from members.

The Secretariat assured members that the data collected from them will not be shared with anyone and full confidentiality of the data provided by each member will be maintained.

The format has been circulated to the Division requesting members to submit their 'Substation construction' data quarterly from April 2015.

► **Divisional Events/Conferences:**

T&D Conclave – 2014

The 8th T&D Conclave was held on 12 December 2014 in Gurgaon. Attended by more than 250 participants, the Conclave saw eminent technologists and personalities 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 Mr SS Sarkar, Associate Project Director, Mission Orbit Mars, ISRO, Dr Ajit Ranade, Chief Economist, Aditya Birla Group, Mr Anil Sachdeva, founder & CEO, Grow Talent Company and the School of Inspired Leadership, and Ms Mohua Mukherjee, Senior Energy Specialist, The World Bank, Washington.

IEEMA Statistics - Production Trend						
NAME OF THE PRODUCT	UNIT	Cumulative April - March		% variation 2014-15 over 2013-14	Previous Highest Annual Production	Maximum Comparison Factor %
		2013-14	2014-15			
TRANSMISSION LINE TOWERS	MT	1250	1097	-12.2	1250	87.76

Representations were:

- ▶ Representation submitted to the Power Grid Corporation of India Limited on 7 July 2014 regarding PV Clause for Substation material.
- ▶ Representations submitted to the Ministry of Power on 23 May 2014 regarding submission of Standard Bidding Document for Standard Terms & Conditions for Turnkey Transmission, Distribution & Substation projects.
- ▶ Representation submitted to Power Grid Corporation of India Limited on 29 May 2014 regarding non-closure of Transmission and Distribution projects commissioned by EPC contractors.
- ▶ Representation submitted to Power Grid Corporation of India Limited on 1 September 2014 regarding PV Clause for Substation material.
- ▶ Representation submitted to Power Grid and Ministry of Power on 19 September 2014 regarding SOPs for Standard Terms & Conditions for Turnkey Transmission, Distribution & Substation projects.

PUBLIC POLICY CELL

The Public Policy Cell was reconstituted by the Executive Council in 2014-15, under the Chairmanship of Mr Narayan Sethuramon, Managing Director and CEO, WS Industries (India) Ltd. and Co-Chairmanship of Mrs Indra P Menon, Executive Director and President, Lakshmanan Isola Pvt. Ltd. The members of this Cell are Chairmen and Vice-Chairmen of all IEEMA Product Divisions, besides other nominated members who have been contributing towards this endeavour.

Apart from its meetings during the period, the Cell also conducted a Strategising Meeting with Stakeholders of Industry on imports from China and Brainstorming Meetings with Divisional Chairmen and Vice-Chairmen on different policy-related issues.

The Cell addressed issues related to surge in imports; non-tariff / technical barriers; impact of signed and future Free Trade Agreements, rules of origin and other collective issues of importance, in order to ensure a level playing field and competitiveness of the domestic industry. The Cell also played an advisory role for various product divisions of IEEMA and suggested suitable remedial measures for safeguarding the interests of members.

The Public Policy Cell also maintains a knowledge base on product-wise imports and exports of electrical equipment.

Winding Wires

The winding wire industry in India includes manufacturers of enamelled winding wires, paper and cotton-covered Aluminium and copper conductors, enamelled copper strips, continuous transposed conductors, etc. The industry has evolved for more than 65 years and is able to meet the demanding needs of users in terms of technology, quality and volume. It is used in the construction of transformers, inductors, motors, speakers, hard disk head actuators, electromagnets, and other applications like automotive, compressors & pumps, distribution transformers, generators and traction motors, wind and solar power sectors, etc.

The Winding Wire Division was not active for the past few years; however, IEEMA has been addressing concerns of the industry in the form of pre-budget proposals to GOI and representing issues pertaining to Free Trade Agreements to the Government. The Winding Wire division of IEEMA represents 85% of the winding wire industry by volume.

Members of this industry sector expressed their desire to reactivate the Winding Wire division again. After taking due approval from the Executive Council, the first meeting for the revival of the Division was held on 12 February 2015 in Mumbai. Members brainstormed about objectives and action points for the division.

▶ Industry Size - Rs. 5,500 crs

- Number of Members in the Division: 14
- Division Meetings: 1
 - First meeting after revival on 12 February 2015
 - Summary of Division meetings: Objectives/ Key discussion points & achievements

Members have identified the following areas for the Division to work upon:

1. Improve health of the industry by checking unfair imports. Domestic manufacturers have to pay import duty on raw material, whereas thin wires attract 'Nil' customs duty rendering domestic manufacturers uncompetitive.

2. Inverted duty structure is the biggest problem. There is a lack of understanding about copper pricing. OEMs are importing wires as raw material.
3. The Electronics industry is allowed concessional duty import for below 5 Volts applications. This is attracting mainly for superfine enamelled copper wire. This was done 20 years back and the main reason was there was no supplier for this material during that point of time. The industry has evolved in the last 20 years and this clause is detrimental for the copper industry. India is losing heavily on Forex. It has to be treated like deemed export.
4. To advocate for change in export incentives

by following 'Net Forex earner' instead of 'Value addition'.

5. To campaign for removal of SWG (standard wire gauge) nomenclature.
6. To educate customers and users on safety, quality, insulation class.
7. To activate participation in BIS Committee on Winding Wires.

Compilation of data:

Members appreciated the need for production data, which can be compiled for the following categories:

1. Enamelled copper strips.
2. Continuous transposed conductors.
3. Paper insulated copper conductors. ■



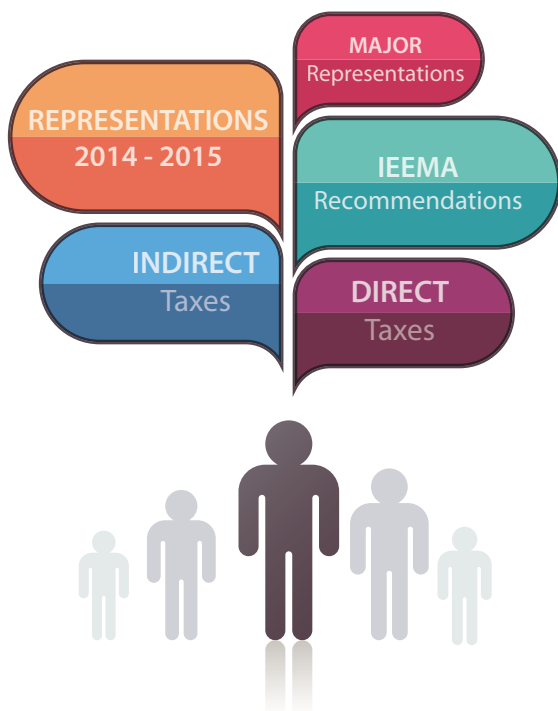




Interaction with Members of Parliament and Members of Legislative Assembly

REPRESENTATIONS 2014 - 2015

REPRESENTATIONS 2014-2015



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 2015-16

IEEMA collated feedback received from members and the same were deliberated by The Economic & Taxation Committee and a comprehensive representation 'IEEMA Pre-Budget Memorandum 2015-16' was made to the Ministry of Finance, Department of Heavy Industry and Department of Industrial Policy & Promotion, Government of India.

A brief summary of the Memorandum is as follows:

A. INDIRECT TAXES

■ Import Duty on Mega/Ultra Mega and Expansion Projects

Government had imposed 5% BCD, 12% CVD and 4% SAD, with effect from 10 September 2012, on imports of equipment for Mega/Ultra Mega and expansion projects, other than 113 notified power projects.

However, the 14% cost disadvantage suffered by the domestic industry (as estimated by the Committee under the chairmanship of Member-Industry, Planning Commission) was not completely addressed. The imposed duty structure compensates the domestic suppliers only to extent of 4.7%.

IEEMA Recommendation

Increase BCD to 10% and simultaneously, excise duty paid by the domestic manufacturers should be refunded by the government as deemed export benefits.

■ 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 Recommendation

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.

■ Merit Rate of Excise Duty for Power Generation, Transmission & Distribution Equipment

Electrical equipment goes to one of the most significant and critical infrastructure sectors; however, these attract the same level of excise duty as applicable to many FMCG and luxury products.

IEEMA Recommendation

Till the time a uniform GST is implemented, a merit rate of 6% excise duty be imposed on power generation, transmission & distribution equipment.

■ 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 Recommendation

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.

■ **Concessional Rate of Excise Duty for Agricultural Products**

Products such as Tractors; Power Driven Pumps and specific goods intended to be used for agricultural produce are wholly or partially exempted from excise duty, vide notification no. 12/2012-CE dated 17.3.12.

However, Motor Starters (up to 7.5 kW/10 HP or up to relay range of 14-23A); Agricultural Capacitors (up to 6 kVAr) and Submersible Flat Cables (up to 6 sq. mm. cross section area), which are mainly used in the agriculture sector, attract normal rate of excise duty.

IEEMA Recommendation

Excise Duty rate on these products be reduced to 6%.

■ **Excise Duty Exemption to Sub-Contractors**

In the execution of a Mega Power Project, there are hundreds of Contractors. The Contract is awarded to one or two main contractors and further the supplies are made by several contractors. Thus, the Main contractor may have several sub-contractors and sub-contractors may have further sub-contractors and the chain could be still long.

It is not clear from the Central Excise Notification the benefit of Excise Duty exemption to every contractor.

IEEMA Recommendation

Concerned notification should be so worded so that contractor at any level gets the excise duty exemption.

■ **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 Recommendation

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 assesseees. This would be in line with the provisions on CENVAT Credit in respect of inputs.

■ **NIL Basic Customs Duty for CRGO electrical steel**

Cold Rolled Grain Oriented (CRGO) Steel (under HS Codes 72251100 and 72261100) is a critical raw material for manufacturing of transformers. There is no indigenous manufacturing of CRGO Steel and the entire requirement is imported.

IEEMA Recommendation

Basic Customs Duty on CRGO electrical steel should be removed till such time the country sets up indigenous manufacturing capacity.

■ **Customs Duties' Exemption to Goods imported for R&D**

The notification 51/96-Cus, dated 23.7.1996, allows clearance of imported goods at 5% custom duty for Research Institutions registered with the Department of Scientific and Industrial Research.

The notification exempts whole of the additional duty (Section 3(5) of Customs Tariff Act i.e. Special Additional Duty). However, the notification 102/2007-Cus, dated 14.9.2007 effecting exemption of SAD at the rate of 4%, does not cover the above notification and hence SAD is payable on such imports.

The equipment required for research becomes costly due to levy of SAD; even though there is exemption provision in base notification 51/96 Customs dated 23.7.1996.

IEEMA Recommendation

Include the notification no 51/96-Cus, dated 23.7.1996, in notification no 102/2007-Cus, dated 14.9.2007, for effecting the exemption of 4% SAD.

Unit of Measurement for Tariff Items

Under Third Schedule of the Customs Tariff Act 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 a welcome change and conversion of unit of measurement is required for a few more tariff lines.

IEEMA Recommendation

Unit of Measurement for tariff items under 85371000 and 85372000 should also be changed from 'kg' to 'u'.

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 the 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 Recommendation

Make suitable amendments in the notification no. 108/95-CE so as to align the same with entities notified by the DEA.

Increase in Abatement Rate for MRP-Based Excise Duty

Abatement on electrical goods under chapter 8536

is presently 38%. Since the supply chain is long and some discount needs to be passed on to the buyers in view of stiff competition, the manufacturers of electrical switchgears are forced to bear the duty incidence.

IEEMA Recommendation

Abatement on electrical goods, under chapter 8536, be raised to 50%.

Time Limit for Availment CENVAT Credit

A restriction was put under Rule 4 & 7 of CENVAT Credit Rules, 2004 regarding availment CENVAT Credit on inputs/input services within six months from the date of proposing of CENVAT document.

Goods are generally removed by roads to various far-off places and vehicle passes through various states, check posts and complies with entry provisions. Also natural causes, strikes, vehicle failures, loss of invoice etc., are reasons for abnormal delays in delivery in some cases. In case of service tax, the CENVAT Credit availment is linked to payment to service provider and hence this provision restricts service receiver to keep the payment terms within six months only, even if service provider allows more period.

IEEMA Recommendation

Withdraw the above provision; alternately, increase the period from six months to one year, in line with provisions of applying refunds; alternately, insert another provision to avail CENVAT credit after six months with justified reasons.

Transfer of Credit by Large Taxpayer Units

Inter-unit transfer of CENVAT Credit by large Tax Payer Units (LTUs) was disallowed.

Large Tax Payer Units, with multiple manufacturing locations, will accumulate CENVAT Credit balances which cannot be utilised by a concerned location.

On the other hand, other manufacturing locations of the same manufacturer will have to discharge their duty liabilities in cash.

IEEMA Recommendation

Large Tax Payer Units should continue to have the benefit of inter-unit transfer of CENVAT Credit.

Additionally, all assessee other than LTUs should, at their option, be allowed to transfer CENVAT Credit of all eligible duties amongst the different registered premises (under both Excise and Service Tax) provided these registrations are of same legal entity.

■ **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 1 April, 2012 only whereas it should be with retrospective effect as if it was there in the CENVAT Credit Rules since inception.

IEEMA Recommendation

This amendment should be made with retrospective effect, so that the pending cases would automatically get resolved.

■ **Rate of Central Sales Tax**

Central Sales Tax (CST) rate of 2% is continuing since 2008, though the rate was expected to be reduced to 1% with effect from 1 April, 2009 and to Nil.

IEEMA Recommendation

CST rate be reduced to 1%.

■ **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 20 June 2012.

Construction activities undertaken in relation to setting up of power projects are liable to be taxed.

IEEMA Recommendation

Being an important infrastructure sector, works contract-related services for power generation, transmission & distribution be exempted from payment of service tax.

■ **Rate of Interest**

A simple rate of interest is charged for delayed payment of service tax (18% per annum up to 6 months; 24% per annum for next 6 months and 30% per annum beyond 1 year).

Sometimes due to interpretation/lack of clarity issue, the service tax payment is delayed. Also, a few amendments are issued which go unnoticed for some period. Provision of very high interest rate will be counterproductive to the promise of igniting growth and simplifying compliance requirements. The period-wise different rate of interest will also lead to confusions.

IEEMA Recommendation

Retain a uniform rate of simple interest at the rate of 18% per annum in line with the Central Excise Act, 1944 to avoid the complexity in calculation.

■ **Provision in Service Tax in respect of availing Credit**

Under CENVAT Credit Rules 4(7) and vide Notification No. 13/2011-CE (NT), dated 31.03.2011, currently there is a provision to avail CENVAT Credit immediately on receipt of invoice, provided the payment of invoice is made within 3 months of the date of invoice.

IEEMA Recommendation

The condition put for availing credit be removed by amending CENVAT Credit Rules.

■ **Definition of input service and its eligibility under CENVAT Credit Rules, 2004**

The Finance Act 2012 had proposed radical changes in the legal provisions governing service tax and services are taxed unless specified in the negative list.

However, the 'Input Services Definition', is not aligned to this structural change leading to cascading effect and double taxation. Such as in case of many input services, CENVAT Credit is not made available to manufacturers. Similarly, under reverse charge, denial of CENVAT Credit to the service provider is against the stated policy of CENVAT Credit itself i.e. rent-a-cab, security & manpower, GTA medical/

health insurance and catering services, since these services are used in relation to business of a service provider or manufacturer.

IEEMA Recommendation

The definition of 'input services' in CENVAT Credit Rules, 2004 should be amended by incorporating 'Credit of service tax shall be allowed if such expenses are included as cost component in assessable value of the product/services for payment of excise duty/ service tax'.

Amendment to CST Act - Statutory Forms

Amendment made to Rule 12 of the CST Act makes it mandatory to issue/collect single declaration form for all transactions of sale for each quarter of the year.

This has created a lot of hardship and increased the non-value added work of dealers, who are also harassed for non-submission of forms. Also, many State Governments do not have sufficient stock of the forms viz., F forms/C forms, E1/EII forms, etc.

IEEMA Recommendation

The amendment made to Rule 12 of the CST Act be withdrawn or the statutory forms be generated online in place of physical forms.

Exemption of Central Sales Tax/ Value-Added Tax on Mega Power Projects

Goods supplied by foreign suppliers do not attract CST/VAT, whereas domestic supplies attract 2% CST and VAT varying from 4% to 14.5%. An office memorandum issued by the Ministry of Power had advised the State Governments to exempt supplies made to Mega Power Projects from levy of local taxes.

However, some project authorities and customers do not accept this de-loading principle and evaluate bids taking these levies into account.

IEEMA Recommendation

Mega/Ultra Mega Power Projects should be mandatorily exempted from levy of CST/VAT by making a provision in the CST Act itself. Alternately, CST/VAT component, if any, should be excluded during evaluation of bids.

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 Recommendation

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.

B. DIRECT TAXES

Increase Depreciation Rate and Time Limit for Investment Allowance

Machinery used in the electrical industry is extensively technology-oriented and susceptible to frequent technological changes. The industry has to adopt new technologies at a faster rate, to remain competitive nationally and internationally.

IEEMA Recommendation

Higher and accelerated depreciation should be allowed for construction equipment at construction sites @ 30% so that the equipment can be written off in 10 years. This will enable companies to bring in better technology in the manufacturing sector where newer technologies can reduce project cycle time.

Difficult Terrain Exemption

Some organisations execute projects in difficult terrains and adverse political environments in countries like Afghanistan, Iraq, Africa or States like Jammu & Kashmir and North Eastern States.

IEEMA Recommendation

The Government should allow a special exemption or deduction for the organisations working under these conditions in order to encourage them to undertake projects in such regions.

■ **CSR activities under Companies Act 2013**

Section 135 of the Companies Act, 2013 specifies responsibility of a company to spend a minimum 2% of its average net profit, during a block of 3 years, on CSR activities.

IEEMA Recommendation

The Government in return, should provide suitable weighted deductions or a set-off of 2% on this spending.

This would not only encourage the domestic companies but also create a level playing field for them, otherwise, these would become less competitive vis-a-vis foreign companies doing business in India, which have no such responsibility of CSR.

■ **Corporate Tax**

Spending INR 100 crores 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 Recommendation

Allow more flexibility to newly introduced Section 32 AC.

■ **Tax Deduction at Source**

Reduce Corporate TDS rate for contractor from 2% to 1%. Contracting/Sub-contracting businesses do not have sufficient margin or cash flow to withstand a deduction of 2% from their fund flow.

Positive impact

Some of the IEEMA pre-budget recommendations were addressed in the Budget 2015-16 and policies implemented in favour of the industry. Salient points are as follows:

Time limit for taking CENVAT Credit on inputs and input services increased from six months to one year.

Time limit for receiving back the capital goods by a manufacturer from a job worker extended from 180 days to two years.

Credit shall also be allowed even if any inputs are directly sent to a job worker without them being first brought to the premises of the manufacturer or the provider of output service.

Additional depreciation @ 20% is allowed on new plant and machinery installed by a manufacturing unit or a unit engaged in generation and distribution of power.

MAJOR REPRESENTATIONS

1. Inverted Duty Structure and Anomalies in the Indian Electrical Equipment Industry

On the basis of inputs received from members, IEEMA represented to the Tariff Commission, under the Ministry of Commerce & Industry, Government of India, some instances of inverted duties and anomalies prevailing in the electrical equipment manufacturing industry. IEEMA officials also had several meetings with the Tariff Commission in this regard.

Outcome – The Government removed inverted duties on Insulators & Insulated Cables. The issue of inverted duties pertaining to these products is resolved.

2. Inclusion of Electrical Equipment under Focus Product Scheme

The IEEMA secretariat had sought inputs from members on inclusion of electrical equipment under the 'Focus Product Scheme' of the Foreign Trade Policy. The Government of India provided incentive to select export products under this scheme, which had high export intensity and employment potential, thereby offsetting infrastructural deficiencies and other associated costs involved in marketing of these products. The incentive provided by the government was in the form of duty credit at the rate of 2% of FOB value of exports in foreign exchange.

IEEMA represented to the Directorate General of Foreign Trade, Department of Commerce and Department of Heavy Industry, Government of India, requesting inclusion of Galvanised Transmission Line Towers; Aluminium Conductors; Switchgears; Capacitors under the Focus Product Scheme.

Outcome - In the new Foreign Trade Policy 2015-20, five promotional schemes made available earlier viz. Focus Product Scheme, Market Linked Focus Product Scheme, Focus Market Scheme, Agri. Infrastructure Incentive Scrip, VKGUY were merged into single schemes, namely, Merchandise Export from India Scheme (MEIS) and Services Export from India Scheme (SEIS). Electrical equipment recommended by IEEMA was included in the newly formed MEIS Scheme of Foreign Trade Policy. The issue has been resolved.

3. Accumulation of CENVAT Credit in Conductors and Cables due to decrease in rate of Central Excise on these products

An issue was brought regarding accumulation of CENVAT Credit that remained unutilised while manufacturing Paper Insulated Copper Conductors (HS Code 85446010) and Continuously Transposed Conductors (HS Code 85446090). This accumulation of CENVAT Credit was a fallout of lowering of excise duty on finished products, under Chapter 84 & 85 to 10% by the government, while, the excise duty on the raw material of these products i.e. Copper Wire Rod (HS Code 74081190), remained unchanged at 12%. Similar accumulation of CENVAT Credit was also reported on Plastic and Rubber Electrical Cables.

IEEMA represented the matter to the Central Board of Excise and Customs requesting either to also lower the excise duty on the above-mentioned raw material or restore the earlier excise duty of 12% on finished products.

Outcome - Government restored the earlier excise duty rate of 12% on all products under chapter 84 & 85, w.e.f. 1 January 2015. The issue has been resolved.

4. Wrong description of Electric Conductors for a voltage not exceeding 1000V

An issue was brought related to wrong description of a product under Focus Product Scheme of Foreign Trade Policy as 'Other Electric Conductors, for a voltage not exceeding 1000V: Fitted with Connectors'. Practically, electrical conductors are manufactured with or without connectors as per the requirements and specifications of the buyer. Because of the said description, all manufacturer-

exporters did not stand eligible for claiming the benefits under the Focus Product Scheme.

IEEMA represented the issue to the Directorate General of Foreign Trade requesting amendment of the description for HS code 854442 as 'Other Electric Conductors, for a voltage not exceeding 1000V: with or without connectors' Alternately, inclusion of HS Code 85443000 which refers to 'Other electric Conductors for a voltage not exceeding 1000 V'.

Outcome - HS Code 85443000 referring 'other electric conductors for a voltage not exceeding 1000 V' was included in the Merchandise Export from India Scheme by the government. This issue has been resolved.

5. Imposition of Anti-Dumping Duty on imports of insulators from China

The domestic electrical insulators' manufacturing industry had suffered serious injury because of dumping of Chinese insulators in the country. From a situation of net importing country, China had emerged as a net exporting country of this product. Further, Chinese producers had aggressively reduced their prices for exports of electrical insulators to India.

In addition, Chinese manufacturers were given by their Government export subsidies as high as 17% of the export value, social security subsidies, lower income tax rate (15%) and access to financing at low rates of interest, which gave the Chinese companies over 24% of unfair pricing advantage.

An application seeking imposition of anti-dumping duty on electrical insulators from China was filed. Based on the investigations, the Directorate General of Anti-Dumping & Allied Duties recommended imposition of anti-dumping duty on imports of electrical insulators of glass, or ceramic/porcelain from China. The Ministry of Finance notified the imposition of provisional anti-dumping duty on imports of these products for a period of six months from 16 September 2014.

Outcome - Anti-dumping duty was imposed by the government for a period of five years from the date of imposition of provisional anti-dumping duty. This issue has been resolved

6. Rectification of Unit of Measurement for power capacitors in Tariff Classification

IEEMA Capacitor manufacturing members were facing concern while exporting Power Capacitors (HS Code 853210) since the unit of measurement indicated in tariff guide for these Capacitors was in 'kg' (weight). This was not the appropriate and logical unit of measurement for Power Capacitors. Most of the exporters had been declaring the quantity in 'numbers' (count).

However, lately, members started facing problem of holding back of consignments by the port authorities because of declaring the quantity of Power Capacitors in 'numbers' and not in 'kg'.

IEEMA represented the matter to the Ministry of Finance, Government of India, seeking rectification of the unit of measurement for Capacitors.

Outcome - Government replaced the unit of measurement of Capacitors from 'kg' to 'numbers'. This issue has been resolved.

7. Safeguards Duty on imports of Not-Alloyed Ingots of Unwrought Aluminium

A petition was filed by domestic aluminium producers, comprising Hindalco, SESA Sterlite and BALCO before the Director General (Safeguards) for imposition of a Safeguard Duty on imports of Not-Alloyed Ingots of Unwrought Aluminium (PUC) into India. NALCO, a public sector undertaking, having the largest share of aluminium produce was not a part of this petition.

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.

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 the downstream user industry of aluminium, would have adversely affected the competitiveness and employment opportunities of the latter.

Moreover, imposition of Safeguards Duty would have created an inverted duty as raw material

(aluminium) would have attracted a higher duty, while the finished goods (conductors, cables and capacitors) would have attract a lower duty.

IEEMA represented the viewpoints of the user industry on the above lines requesting non-imposition of any Safeguard Duty on imports of Not-Alloyed Ingots of Unwrought Aluminium.

Outcome - Petition for imposition of Safeguards Duty on PUC was rejected by the DG (Safeguards), which is in favour of the electrical equipment industry. This issue is resolved.

8. Adoption of IS 12615:2011 as Mandatory Standard for Energy-Efficient Motors

The electric motors manufactured in India conform to the Indian Standard IS 12615, which was harmonised in August 2011 with Global IEC standard 60034-30 for the efficiency classes (IE2 and IE3) and testing methods. IS 12615 is a voluntary standard, whereas the relevant IEC or equivalent international standards are mandatory in most of the countries, e.g. EU, USA, Japan and China.

The above countries manufacture and sell only efficient motors in their countries, whereas freely export below IE2 level motors to countries such as India, as there is no mandatory standard of high-efficiency IE2 motors in our country. This had been causing serious injury to the domestic manufacturing capacity.

IEEMA represented the matter to the Department of Industrial Policy and Promotion, Ministry of Commerce and Industry, Government of India, for notifying IS 12615:2011 as Mandatory Standard for Energy-Efficient Motors.

Outcome - Matter is under the active consideration of the Bureau of Indian Standards and the Department of Industrial Policy & Promotion, Government of India.

9. Mandatory Standards for 15 items under voluntary standards

The Department of Commerce, Government of India, had consulted all trade and associations, including IEEMA, to suggest products for mandatory standards from the list of 946 voluntary standards.

IEEMA collected inputs from the entire membership and recommended 15 products, comprising Cables and Capacitors, for mandatory standards.

The Department of Commerce forwarded these recommendations to the Department of Industrial Policy & Promotion for notifying these standards as mandatory.

Outcome - Matter is under the active consideration of the Bureau of Indian Standards and the Department of Industrial Policy & Promotion, Government of India.

10. 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.

Outcome - Matter is under the active consideration of the Department of Commerce, Government of India.

11. Import Appraisal of Engineering Goods

The Government of India, through the Department of Commerce and Department of Heavy Industry, had consulted all trade & associations to report the products where imports have taken place worth USD 100 million and above per annum.

IEEMA responded to the Government giving details of such products, along with a paper on the difficulties and the nature of interventions required from the Government to support the domestic electrical equipment manufacturing industry.

Outcome - This matter is under the active consideration of the Government of India.

12. Branding of Indian Engineering

'Indian Engineering' was planned as a brand exercise by the Government of India to improve the overall perception of Indian Engineering products globally.

The Department of Commerce, Government of India, asked IEEMA to identify 2-3 specific product lines with a set of filters (benchmarking certain minimum quality, product & process standards that are accepted globally), along with 2-3 potential countries for promoting these products.

A study was undertaken with Deloitte to identify the product lines and their markets. IEEMA submitted its recommendations to the Department of Commerce in this regard.

Outcome- This matter is under the active consideration of the Government of India. ■



Business Standard

5th Gridtech links Smart Grids to Energy Efficiency

Prime Minister Narendra Modi's dream to deliver 24x7 power for all augurs well for both international and domestic stakeholders in the power sector keen to benefit from the Indian growth story

The new government led by Prime Minister Narendra Modi, since being sworn in May 2014, has time and again reiterated its commitment to deliver 24x7 power for all. This requires significant augmentation of energy generation, effective transmission and distribution system, efficient consumption and concern for environment, which goes hand in hand. Heading the crusade is the Prime Minister's said dream is Piyush Goyal, Union Minister of State for Power, Coal and New & Renewable Energy, who is well aware of the need of the hour and initiatives required to do so.

"Energy for all is at the centre of all plans. India is enormously energy starved, since average per capita consumption is just a single euro unit per year versus Gujarat at 1,800 units and developed countries at 15,000 a year. 240 million people in 56 million homes are bereft of any electricity whatsoever. Further, a large number of people who are connected to the grid receive sporadic and inconsistent electricity in many states of India. We hope to make a long-lasting, transformative impact on the lives of millions of Indians by empowering them with power," said Goyal recently.



power sector in India. Powergrid has already successfully organized four editions of Gridtech 2012, 2013 and 2014 and 2015. This time...

The opportune time to grow the power sector in India R.N Nayak, Chairman & Managing Director, Power Grid Corporation of India Ltd (PGCIL) observed in his AGM speech in September 2014 that the Indian economy witnessed slowdown in last two years, which was primarily attributed to slow-growth in the industrial sector and investment stagnation. With the moderate recovery of global economy, cooling of oil prices, revival of investors' confidence and good governance, the Indian economy is starting looking forward to better growth prospect in the coming years.

PGCIL is the prime mover of economic growth in India. It is vital to the sustenance of modern life. However, the increased activities, expansion of manufacturing coupled with aspirations of modern India, by the youth, who seek higher standard of living, have resulted in manifold increase of demand. The Government of India has

supply to every household in the country. Energy security, Government has also focussed attention to harness all forms of energy including renewables," added Nayak.

For the uninitiated, as per Public Entry Survey 2012-13 of Government of India, POWERGRID is acclaimed as 5th largest firm in terms of Gross Book, 22nd in terms of PPEE.

NE skill cent
The inauguration of power transmission and distribution in the country will require the Centre for newly established...

Electrical & electronic industry grew 11.47% in Q3FY14: IEEMA
MUMBAI: The electrical and industrial electronics industry witnessed a growth of 11.47% during October-December 2014 although the sector continued to be plagued by high imports, according to industry body IEEMA. "Although high imports, which was nearly over Rs 2,000 crore in 2014, still plague the industry, policy changes and industry initiatives are eventually showing signs of evolution for the sector," said IEEMA president Vishnu Agwal in a statement. "There is a positive momentum," he added.

Appeal for power funds on time
ASTAFERREPORTER
Guwahati, April 24: The apex association of power transmission and distribution in the country will request the Centre for timely disbursement of funds to power providers and the state utilities. The power distribution business in the northeastern states stands crippled where net losses are in the tune of Rs 7,000 crore. Union power minister Piyush Goyal had recently an-

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Cost of Power Generation Likely to Increase by 33%

30% higher than that of private firms
Debjoy.Sengupta@timesgroup.com
Kolkata: The cost of power generation is likely to increase according to industry estimates as coal blocks get transferred from state-run mines to state-run mines following a Supreme Court verdict. Coal India's cost of production is higher than that of private firms, higher overheads and stringent rules requiring new investments in all of its

पावर सेक्टर में व्यापक बदलाव जरूरी: ईश्वरन
विजली उपकरणों की बड़ी जरूरत पूंजी की उपलब्धता तब है...

पंजाब के ऊर्जा खंड की रजिस्ट्रार पंजी की उपलब्धता तब है...

Geete bats for excise sops for auto cos
Mumbai: Union minister for heavy industries Anant Geete on Thursday said incentives provided to the automobile sector should continue. Replying to a question whether the government plans to extend duty concessions, the minister said, "We believe the incentives provided to the sector should be continued." The minister was speaking to reporters on the sidelines of an event organised by IEEMA and IEEE here.

The government in June last year had extended the excise duty concession on automobile and consumer durable sectors by six months to December 31.

The previous government, in the Interim Budget in February last year, had cut excise duty on cars, SUVs and two-wheelers as well as consumer durables industry, to tide over a demand slump. The concessions



Office and high cost... are agreed... in such...

Business Standard Chinese imports hurting electrical

Vijay C Roy | Chandigarh July 28, 2014 Last Updated at 21:40 IST
Valued at more than Rs 1.40 lakh crore, equipment industry is under severe pressure from imports of electrical equipment from China, the industry registered minuscule...

विजय सी रोय | चण्डीगढ़
वैल्यूड अट मॉर दन रस 1.40 लख कोटी, इक्विपमेंट इंडस्ट्री अंडर सेवर प्रेशर फ्रॉम इंपोर्ट्स ऑफ इलेक्ट्रिकल इक्विपमेंट फ्रॉम चीन, इंडस्ट्री रजिस्टरड मिनिस्कूल...

विजली उपकरणों की बड़ी जरूरत पूंजी की उपलब्धता तब है...

विष्णु अग्रवाल ने आईईएमए के अध्यक्ष का पदमार समाला

नई दिल्ली (एनबी)। विष्णु अग्रवाल ने इंडियन इलेक्ट्रिकल एंड इलेक्ट्रॉनिक्स एसोसिएशन (ईईएमए) के अध्यक्ष का पद भार समाला किया है। आईईएमए 800 सदस्यीय संस्थाओं के साथ दिल्ली में आयोजित, जिनमें भारत और विदेश दोनों के प्रतिष्ठित मैन्युफैक्चरिंग कंपनियों का नाम शामिल है। आईईएमए के सदस्यों ने भारत में स्थानीय विद्युत के उपकरणों की 90% से अधिक योगदान दिया है। साल 2012-13 में 5-अरब डॉलर के निर्यात के साथ भारतीय विद्युत उपकरण उद्योग 24 अरब डॉलर से अधिक का वाणिज्यिक आयात और निर्यात प्रथम निर्यात है। इलेक्ट्रिकल इंडीयन एसोसिएशन ने पीटिओ ईजीएमए के दूसरे वीस में ईईएमए एसोसिएट्स लि, जो इंडिया के ईईएमए के निर्यात का 70% में बढ़ाए



विष्णु अग्रवाल ने इंडियन इलेक्ट्रिकल एंड इलेक्ट्रॉनिक्स एसोसिएशन (ईईएमए) के अध्यक्ष का पद भार समाला किया है।

ELECTRICAL EQUIPMENT INDUSTRY IEEMA signs MOUs with ZVEI and EBTC

A MOU will facilitate in developing mutual exchange of business between Germany and India.

ing mutual exchange between electrical industry of Germany To further strengthen collaborative relations between Indian and German companies in the a micro, intelligent newable energy market

The signing of a mutual exchange and technology...

ing mutual exchange between electrical industry of Germany To further strengthen collaborative relations between Indian and German companies in the a micro, intelligent newable energy market

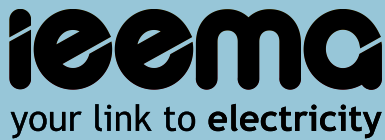


गोएराब के एनएमई मैदान में आयोजित प्रारंभिक 'इंटेलेक्ट' के उद्घाटन के बाद मुंबई में प्रदर्शित एक साइबल की जानकारी लेते हुए केंद्रीय मंत्री अन्तर्गत। (एनबीएस न्यूज़)

Well-positioned for infra development
IEEMA views the Budget to be well positioned to re-energise infrastructure industry segments like steel, oil & gas, renewables, nuclear and cement industries, where power will play a vital role. We welcome Government's reiteration to provide 24x7 Power to All. Further, the announcement to set up five new ultra mega power projects, each of 4,000 mw in the plug-and-play mode is a very positive step and definitely strengthens the power value chain, right from clearances to execution. A budget outlay of Rs 61,404 crore for the power sector in the new Budget is a marginal increase over previous years. Yet, we are hopeful unlike in previous years, the government will take all steps to ensure that allocation of funds is allocated.

Power-hungry states to drive smart grid
SMART MOVE
Smart grid is a modern power grid with demand-side management and...
Grid stability, smart solutions, reduction of AT&C losses to drive growth...

आइईईई और आइईईएमए ने बिजली की प्रमावी खपत घर्चा के लिए इंटैलेक्ट में एक अग्रणी मंच का निर्माण किया
विजली उपकरणों की बड़ी जरूरत पूंजी की उपलब्धता तब है...



Indian Electrical & Electronics Manufacturers' Association

IEEMA is the first ISO certified industry association in India with 800+ member organisations encompassing the complete value chain in power generation, transmission and distribution equipment. IEEMA members have contributed to more than 90% of the power equipment installed in India.

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