

**National Conference on  
LATEST DEVELOPMENTS AND  
ADVANCES IN POWER TRANSFORMERS**  
(under the Aegis of CIGRE NSC A2)

**19 – 20 November 2015, New Delhi**



**KEY SPEAKERS**



**N.S. Sodha**  
Former ED  
POWERGRID



**R.K. Tyagi**  
AGM  
POWERGRID



**V.K. Lakhani**  
Director  
T&R India Ltd.



**M. Vijayakumaran**  
Sr. Technical Expert  
ALSTOM Ltd



**B.N. De Bhowmick**  
GM  
POWERGRID



**B.V. Raghavaiah**  
Director  
CPRI



**Oommen P. Joshua**  
GM  
TELK



**P.E. Hariharan**  
Sr. VP  
Prime Meiden Ltd.

*Organised by*



Central Board of Irrigation & Power



CIGRE-India

*In association with*



International Association on Electricity Generation,  
Transmission and Distribution (Afro-Asian Region)



Society of Power  
Engineers (I)

## **ANNOUNCEMENT**

Central Board of Irrigation and Power & CIGRE-India is organizing a National Conference on “Latest Developments and Advances in Power Transformers” in association with International Association on Electricity Generation, Transmission and Distribution (Afro-Asian Region) and Society of Power Engineers (I) on 19-20 November 2015 at CBIP Conference Hall, New Delhi.

## **AIM & OBJECTIVE OF THE CONFERENCE**

Central Board of Irrigation & Power (CBIP) a Premier Institution has been rendering dedicated services to professional organizations, engineers and individuals in the country and abroad for the last more than 88 years, resulting in accelerated development in the Water Resources and Power sector including Renewable Energy Sector in the country and abroad. The main objective of CBIP is to disseminate technical knowledge through various modes, e.g., organizing conferences/ seminars at National & International level, publication of journals, manuals, technical/ research reports, guidelines, etc. and also through training to the professionals.

The transformer is one of the most important and expensive asset in a power system. The increase in demand for energy will require enhancement in transformation capacity. In a deregulated environment, the electric utilities are under constant pressure to reduce operating costs, enhance the availability and improve the quality of power and services to the customers. However, the risk involved in running the system without proper attention to assets in service is quite high. In the process, the probability of losing any vital equipment like a transformer is increasing. Failure of such vital equipment can have a significant economic impact due to its high cost, long lead time in procurement, manufacturing and installation. Moreover, a failed transformer takes long time to replace, if spare transformers or components are available, or months to a year to repair or build/ procure a new one. Determining the condition of existing transformers is an essential step in analyzing the risk of failure. The condition monitoring would help in providing valuable information for life assessment of a transformer.

In view of the recent advancements & innovations taking place at a fast pace, it is extremely necessary for the professionals to update their knowledge. By participating this conference you will have the opportunity to meet the eminent experts on the subject, in order to build up a state-of-the-art view on the new requirements; solutions proposed and expected improvements for the future of the substation.

The aim of the conference is to provide a forum for open discussions and exchange of information on the latest state-of-the-art technology to come out with positive/concrete recommendations on the subject. It will be appreciated that it is very necessary for the professionals to capture the latest knowledge and innovations so as to keep the pace with the advancements taking place in this sector. With the accentuation of the knowledge of the professionals in this region there is going to better performance of Power System.

Keeping in view the importance of the subject and to disseminate the knowledge for developments taking place in the recent past, the Central Board of Irrigation & Power and CIGRE-India are jointly organizing this National Conference on Latest Developments and Advances in Power Transformers on 19-20 November 2015 at CBIP Conference Hall, New Delhi

## **TOPICS TO BE COVERED**

- Modern Trends in Power Transformer Technology
- Transportation, Erection and Commissioning of Power Transformers
- Power Transformer Reliability and Mitigation Techniques against Major Failures
- Best Practices for Asset Management and Use of Health Index as a Tool for Condition Assessment
- Transformer Repairs and Rebuild
- Quality Control
- Testing of Transformer and Factory Acceptance Test of Power Transformers as per IS/IEC
- Case Studies

## **CALL FOR CASE STUDIES**

Experts who desire to participate for making presentations/case studies on the above subject are requested to furnish the write-ups to reach CBIP office latest by 10th November 2015.

## DATE AND VENUE

The National Conference will be held on 19-20 November 2015 (Thursday & Friday) in the Conference Hall of Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi 110021.

## REGISTRATION FEE

The perspective participants, desirous of attending the Conference may register themselves by sending the following details to CBIP along with necessary payments:

Delegate Name : \_\_\_\_\_  
Designation : \_\_\_\_\_  
Organisation : \_\_\_\_\_  
Mailing address : \_\_\_\_\_  
Phone/Fax/E-mail : \_\_\_\_\_

The registration fee for attending the Conference is given below:

(i) Rs. 12,000/- per participant. (ii) Rs. 10,000/- per participant for members of CBIP, CIGRE, AARO and SPE.

### Service Tax 14% extra

The conference is non-residential. The conference timing will be 10.00 AM to 5.00 PM on both the days. The registration will start at 9.00 AM on 19th November 2015 of the conference

Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the Conference. Participants will have to make their own arrangement for travel, boarding and lodging, etc. All payments should be made by cheque at par/ Demand Draft drawn in favour of "Central Board of Irrigation and Power", payable at New Delhi or by transfer the amount to HDFC Bank, Address: 209-214, Kailash Building, 26 Kasturba Gandhi Marg, New Delhi 110001

Saving Bank Account No. : 00031110004411 Swift Code : HDFCINBBDEL

IFSC : HDFC 0000003

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## OTHER ATTRACTIONS

Scope exists for organizations to be sponsor on lump sum payment with following attendant benefits:

S. No.	Category	Fee in Rs.	Free delegates	Free Advt. in proceedings
1.	Gold Sponsorship	2,00,000	6	2 pages
2.	Silver Sponsorship	1,00,000	4	1 page

## BENEFITS

- Name of organization in the list of sponsors
- Organization may nominate free delegates as mentioned above
- Advertisement in proceedings volume
- Distribution of literature/brochures

## ADDRESS FOR CORRESPONDENCE

**V.K. Kanjlia**

*Secretary*

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## KEY SPEAKERS

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Eminent speakers will address the Conference with their immense technical knowledge and also present practical case studies. The following renowned experts in field have been invited to deliver the lecture during the Conference:



**Shri M. Vijayakumaran**, Senior Technical Expert, ALSTOM Ltd. He is having more than 40 years experience in EHV Power Transformer and Reactor Technology. He trained in Hitachi, Japan & AREVA Units in Europe in EHV Transformer Technology. He is Member in CIGRE Since 2002, have been attending CIGRE session in Paris regularly. He is presently Study Committee member in CIGRE India A2. Shri Vijaykumaran is Active Member in Indian Standardisation Committee (BIS); ETD 16 on Transformers and TC 3 on Insulating materials. Interested Member in IEEE; Working Group Member in DGA, Transportation and Bushing Standardization study group.



**Shri V.K. Lakhiani** is BE (Hons.) (Electrical Engineering) from University of Jabalpur (1968). He is presently, Director Technical with Transformers and Rectifiers India Ltd. and is involved in establishment of state-of-the-art Technology of 765 kV class transformers and Shunt reactors in T&R. He has more than 4 decades of experience in design and research development activities in the field of Power Transformers upto 1200 kV. In his prior assignment with Vijai Electricals, Hyderabad as a Vice President (Design and Technology), he was involved in Development Projects related to design automation, design reliability, design optimization, value engineering and development of Technology for 1200 kV class Transformers. Under his leadership, Vijai Electricals have successfully developed and tested and supplied the 333 MVA, 1200 kV class Auto transformer for BINA testing station of PGCIL.



**Shri Oommen P. Joshua** is General Manager, TELK Angamally. He has passed Degree in Electrical Engineering from Kerala University in 1979 and M. Tech from Cochin university in 1985. He is having more than 30 years experience in EHV Power Transformer Design and testing. He has contributed many technical papers in National / International Conferences on Transformers.



**Shri B.N. De Bhowmick** is General Manager – Technology Development, Power Grid Corp. of India Ltd. With more than 30 years in the power sector, he has made contributions to engineering, commissioning, operation, maintenance and condition monitoring of transmission assets. As a member of an expert group on transformer condition monitoring and dissolved gas analysis in POWERGRID, he has published several papers on subjects including 1,200 kV and transformer condition monitoring.



**Shri R.K. Tyagi** is presently Addl. General Manager, POWERGRID. He has passed B.E. (Electrical) from PEC, Chandigarh in 1987 and did M.Tech from IIT Delhi in 1995. He is a Fulbright Scholar from Carnegie Mellon University, USA. Shri Tyagi started his carrier from NTPC as Engineer Trainee. He joined POWERGRID during 1991 and has been associated with Operation Services, Engineering and Technology Development Departments since last 22 years. He has wide exposure on Switchgears, Instrument Transformers and Surge Arresters. He is representing India in MT-36 on Circuit Breakers. He was involved in development of 1200 kV AC Technology in India.



**Shri B.V. Raghavaiah** has post graduated in 1981 with specialization in Power Systems & High Voltage Engineering from JNTU, Hyderabad, joined Central Power Research Institute, Bhopal as Scientist in 1981. Since then he is associated with testing and certification of all LT/HT electrical and other allied transmission and distribution equipments and implemented various developmental projects, R&D works, consultancy works and also involved in third party inspections in India and abroad. Presently he is holding the position of Director and Unit Head of CPRI, Bhopal.



**Shri N.S. Sodha** graduated in Electrical Engineering with Honours from Malaviya Regional Engineering College, Jaipur in 1976. He also holds a Management Degree. Shri Sodha has rich experience of 35 years in Indian Power Sector having contributed immensely in Project Implementation, Operation, Maintenance, Renovation and Modernization of EHV Substations, System Operation through Load Dispatch Centre and Design and Engineering of Load Dispatch and Communication facilities.

During his long tenure, he has worked with multinational M/s HBB Ltd. (Now ABB Ltd) and PSU giants like NTPC Ltd. and Power Grid Corporation of India Limited thus bringing in best experience of both sides to Indian Power Sector. Shri Sodha recently has superannuated as Executive Director, POWERGRID.



**Shri P.E. Hariharan** is Sr. Vice President - Safety, Quality & Testing, Prime Meiden Ltd., Andhra Pradesh. He has passed Degree in Electrical Engineering from Kerala University in 1973 and MBA from Cochin university in 1996. He is having more than 35 years experience in Electrical industries in the Quality assurance, QMS, Testing, Manufacturing, Site commissioning of Transmission equipments with specialization in Power Transformer and Reactors up to 765 kV class.