

*Information Bulletin*

National Conference on  
**MODERN TRENDS IN  
TRANSFORMER TECHNOLOGY**

**15 – 16 March 2018**  
**TTI, Shakti Vihar, PSPCL, Patiala**



*Organised by*

*In association with*



## **ANNOUNCEMENT**

The Central Board of Irrigation and Power (CBIP) has been organising workshops/conferences in various regions of the country. The matter regarding organisation of conference at Patiala was discussed with Punjab State Power Corporation Limited (PSPCL) and joint decision has been taken between PSPCL & CBIP to organise a National Conference on “Modern Trends in Transformer Technology” at Patiala for the benefit of Professionals in the Northern Region including the Engineers belonging to PSPCL.

Accordingly CBIP jointly with CIGRE-India and Electrical Research & Development Association (ERDA) is organizing a National Conference on Modern Trends in Transformer Technology on 15-16 March 2018 at TTI, Shakti Vihar, PSPCL, Patiala, Punjab.

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

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. The proper design/Specification of the Transformer also plays a vital role for ensuring a long life of the Transformers as faulty design may lead to early failure of equipment.

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 as it is very necessary for the professionals to capture the latest knowledge and innovations so as to keep the pace with the advancement taking place in this sector. The accentuation of the knowledge of the professionals in this region is going to ensure better performance of Power System.

## **TOPICS TO BE COVERED**

- Modern Trends in Transformer Technology
- Design Challenges & Techno Commercial Design Consideration.
- Transportation, Erection and Commissioning of Transformers
- O&M of Transformers – Latest Techniques
- Condition Monitoring
- Transformer Repair and Rebuild
- Transformer Reliability and Mitigation Techniques against Major Failures
- Various Case Studies in respect of Transformer Failures.
- Fire Safety in Transformers

## **CALL FOR PAPERS/CASE STUDIES**

Papers are invited on any topic pertaining to the aim and scope of the conference that includes, but not limited to, the above.

Experts who desire to participate for making presentations/case studies on the above subjects are requested to furnish the write-ups to reach CBIP office latest by 28th February 2018.

## **DATE AND VENUE**

The National Conference will be held on 15-16 March 2018 (Thursday & Friday) at TTI, Shakti Vihar, PSPCL, Patiala, Punjab.

## WHO SHOULD ATTEND

Officers of Power Utilities/Corporations, State Govt./SEBs, Nodal Agencies, Energy Planners, Private Entrepreneurs, Manufacturers, Development Consultants, Research/Academic Institutions, Construction Companies and Financial Institutions etc.

## 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:

1. Rs. 12,000/- per participant
2. Discounted fee for members of CBIP and CIGRE is Rs. 10,000/- per participant

**GST @ 18% shall be charged extra**

**GST No. 07AAAJC0237F1ZU**

The conference is non-residential and timing will be 10.00 AM to 5.00 PM on both the days. The registration will start at 9.00 AM on day one at the venue 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      MICR Code: 110240001

## ADDRESS FOR CORRESPONDENCE

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## NODAL OFFICER AT PSPCL FOR LOCAL ASSISTANCE

**Er. Surinder Loomba**, *Addl. SE/ Principal TTI*,

Punjab State Power Corporation Limited

Badungar, Patiala

Mobile : 9646118854

Fax: 0175-2302056; E-mail: principallhrd\_pspcl@yahoo.com

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## ABOUT RENOWNED SPEAKERS

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**Shri M. Vijayakumaran**, Chairman of CIGRE NSC A2 on Transformer and Senior Technical Expert, 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 representing India in CIGRE Study Committee A2 on Transformers. 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 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 has superannuated as Executive Director, POWERGRID.



**Shri B.N. De Bhowmick**, General Manager (TD) POWERGRID, graduated in Electrical Engineering from IIT, Kharagpur in 1983. He is member of CIGRE and IEEE. His core competency is in the field of Transmission System Asset Management, Large Transformer Diagnostics, Condition Monitoring and Substation O&M. In Powergrid he is instrumental in developing detailed guidelines of various O&M activities in the field of Substation and especially Transformers. He was also the head of the core team for various transformer diagnostic data analysis, for deciding the action to be taken on various transformers and reactors in the POWERGRID system (about 2400 nos). He was also the project manager for 1200 kV Test station project commissioned at Bina, He has about 33 years of professional experience.



**Shri R.K. Tyagi** is presently 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. He has travelled all over the world and has presented about 27 Technical papers in various National/ International forums/ Conferences.



**Shri V.K. Lakhiani**, is BE (Hons.) (Elect. Engg.) from Jabalpur University (1968). He is presently with Skipperseil Ltd., as Sr. Adviser-Tech., for upgradation of Technology for 400 kV Power transformers for their Bhiwadi Plant. Prior to this he was Director-Tech. with Transformers and Rectifiers India Ltd. and was 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, tested and supplied the 333 MVA, 1200 kV class Auto transformer for BINA testing station of PGCIL.



**Shri Y.V. Joshi**, President ERDA and Superintending Engineer (Engg), Gujarat Energy Transmission Corporation Ltd., has obtained BE Electrical from M.S. University of Baroda in the year 1984. In his present assignment at GETCO he is responsible for EHV Substation Engineering; LV to EHV class Equipment's; GIS and Hybrid switchgears; Transmission Engg.; R&M Engineering, Operational Engineering, Forensic Analysis for HV & EHV Equipments, Health Indexing of Power Transformers and equipment's, Assets Management of HV & EHV Equipments, Designing strategies for deciding ranking of power transformers for overhauling. During his long professional carrier of about 33 years he has significantly contributed as Expert Committee members on Transformer at various national forums. He is member of various BIS committee including ETD 16 on Transformers



**Shri Rajaram Shinde** has over 25 years of experience in Transformers with diverse background and qualities like transformational leader & Technologist. He is on Cargill board as Global Technology Adviser/Director Dielectric Fluids for Cargill's Industrial Specialties business unit. Being member of various national & international forum/committees IEC/IEEE/BIS has invented three products & secured patents. He is graduated in Electrical Engineering from Pune University & now supporting technology spread globally on usage of fire safe, go-green dielectric fluid with improved performance. He was previously heading Transformer business unit of Raychem RPG Ltd for 8 years & also was part of CG Pauwells technology team for almost 5 years. He had been key resource to introduce dry type technology & high temperature fluid technology to India while with Voltas turned Kirloskar (10 yrs).

- Notes :** 1. Beside above, the experts from M/s CTR, Megger India and ERDA are also expected to make presentations during the Conference.  
2. The Speakers have tentatively given their consent.