

**National Conference on
MODERN TRENDS AND ACCIDENT
PREVENTION ON DISTRIBUTION AND
POWER TRANSFORMERS**

Date : 21 – 22 June 2018

Venue : Hotel Hindustan International, Kolkata



Organised by



CIGRE India

In association with

- Damodar Valley Corporation*
- West Bengal State Electricity Distribution Co. Ltd.*
- West Bengal Power Development Corporation Ltd. *
- CESC Ltd.*
- The Durgapur Projects Ltd.*
- Indian Power Company Ltd.*

*Confirmation awaited.

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 Kolkata was discussed with Damodar Valley Corporation, West Bengal State Electricity Distribution Co. Ltd., West Bengal Power Development Corporation Ltd. and CESC Ltd. and joint decision has been taken by CBIP to organise a National Conference on “Conference on Modern Trends on Distribution and Power Transformers including Accident Prevention” at Kolkata for the benefit of Professionals in the Eastern Region.

Accordingly CBIP jointly with CIGRE-India is organizing a National Conference on Modern Trends and Accident Prevention on Distribution & Power Transformers on 21–22 June 2018 at Hotel Hindustan International, 235/1 AJC Bose Road, Kolkata

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

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

A. Specific topics for Power Transformers

- Modern trends in transformer technology and adoption of innovative techniques
- Specification, design and material
- Manufacturing and testing requirements
- Transportation and storage constraints
- Erection, testing and commissioning of power transformers
- Operation and maintenance of power transformers for strategic management
- Condition monitoring of power transformers.
- Advances in power transformer diagnostics
- Special maintenance of accessories - especially bushings and OLTC of power transformers
- Residual life assessment and life extension techniques
- Various types of transformer protections
- Various Transformer oil – pros & cons
- Repair of power transformers
- Failure of power transformers and it's prevention
- Fire prevention measures in power transformers and accident prevention
- Various case studies on the subject

B. Specific topics for Distribution Transformers

- Faulty design
- Poor quality of materials
- Poor manufacturing
- Poor insulating material
- Insulating oils
- Transportation & storage constraints
- Improper installation
- Failure of distribution transformers due to following: protection failures; Poor / lack of earthing; Faulty terminations; Prolonged over load; Unbalance load; Poor maintenance in the field; Continuous oil leakage from joints/Gaskets; Unauthorized connections; Bushing flashovers; On load tap changers
- Attitudinal changes of staff
- Adoption of new technologies
- Automation in distribution transformers
- Failure and repair of distribution transformers
- Fire and accident prevention
- Electrical Safety in distribution transformers
- Dry type transformers
- Various case studies

CALL FOR PAPERS/CASE STUDIES

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 5th June 2018.

DATE AND VENUE

The Conference will be held on 21–22 June 2018 at Hotel Hindustan International, 235/1 AJC Bose Road, Kolkata

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 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 and 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

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ABOUT RENOWNED SPEAKERS



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. Member in IEEE; Working Group Member in DGA, Transportation and Bushing Standardization study group.



Shri P. Ramachandran, started his career in transformer industry from 1966 at a Hitachi Joint venture in India-TELK, Kerala. He has been employed at ABB India since 1999 and currently works as Technical Advisor with Power Products Division of ABB. He received his Bachelor of Science in Electrical Engineering from the University of Kerala, India and Master of Business Administration from Cochin University, India. He is a Fellow of Institution of Engineers (India) and represented India in CIGRE Study Committee A2 for Transformers during 2002-2010.



Shri B.N. De Bhowmick, General Manager POWERGRID, graduated in Electrical Engineering from IIT, Kharagpur in 1983. 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.



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), GETCO, has obtained BE Electrical in the year 1984. In 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 Hirdesh Gupta, Addl. General Manager, NTPC is a 1987 batch graduate in Electrical Engineering from Delhi College of Engineering, Delhi. He is presently working in NTPC Ltd. responsible for Main Plant Electrical systems. His area of specialization is Power Transformers, Shunt reactors and EHV GIS and AIS Switchyards. He was instrumental in bringing 765 kV transformer and Shunt reactors technology in NTPC and in country. His contributions include lot of improvements in design of 400 kV and 765 kV transformers during design reviews with Manufacturers. He has played vital role in finalization of various transformers standards and manuals.