

**Unique event on Power Transformers
(Covering all Major Issues and Concern on the subject)**

**TUTORIAL, EXHIBITION &
6TH INTERNATIONAL CONFERENCE ON**

**Large Power Transformers -
Modern Trends in Application,
Installation, Operation & Maintenance**

**21 - 23 February 2017
SCOPE Complex, Lodhi Road, New Delhi, India**

Attraction and Opportunities to the Delegates

**Four specialized tutorials by the senior
experts on the subject**



M. Vijayakumaran
Prime Meiden



P. Ramachandran
ABB Ltd.



R.K. Tyagi
POWERGRID



V.K. Lakhiani
T&R (I) Ltd.

+ 300 participants
from Govt. & Pvt. Sector inducing
industry stalwarts and Policy makers

**+ 30 high quality
presentations**
by renowned experts on the subject

+ 20 Exhibitors Showing the Innovations & Achievements

Organised by



Central Board of Irrigation & Power



CIGRE-India



पावरग्रिड



Supported by

CENTRAL BOARD OF IRRIGATION & POWER

ANNOUNCEMENT

The Central Board of Irrigation and Power, New Delhi is organizing Tutorial, 6th International Conference and Exhibition on “Large Power Transformers – Modern Trends in Application, Installation, Operation & Maintenance” on 21-23 February 2017 in association with CIGRE-India at SCOPE Auditorium, SCOPE Complex, Lodhi Road, New Delhi, India.

AIM OF THE CONFERENCE

CBIP has been organizing International Conferences on Power Transformers every 3-4 years now. The last one was held in January 2013 which was much appreciated by delegates who had come from over India and abroad. CBIP has now again taken initiative to organize this International Conference and Exhibition on “Large Power Transformers – Modern Trends in Application, Installation, Operation & Maintenance” on 22-23 February 2017 with the aim to update the knowledge of professionals about the current techniques in Power Transformers and to discuss the various problems related thereto. Power transformers are vital links in the chain of components constituting a power system, starting from generating station and terminating at consumers’ premises and yet the transformers remain the least attended equipment notwithstanding the fact that their failures are significant. The failures analysts quote a host of reasons for failure of power transformers, such as deficiencies in manufacturing, metallurgy of materials used, abused operation, poor maintenance practices, substandard input materials, inconsistency of design parameters with practical field environment, abnormal operating conditions, over voltages, short-circuits, etc. While the manufacturers are blamed for supplying poor quality transformers, users are blamed for not providing proper protection and timely maintenance and for running the transformers on overload for long durations. Replacement of large number of failed/burnt transformers is not only posing a serious problem to the power utilities because of the scares funds, it is also depriving large numbers of consumers of electricity and a direct revenue loss to the power utilities. It therefore calls for concerted attention to evolve concrete solutions.

There may be multiple other factors, dictated by present-day realities, due to which the transformer failure rate continues to rise unabated. Considering the very high stakes involved, all concerned players in the field, namely, designers, researcher, manufacturer, utility engineers, etc., are required to discuss various aspects of this issue and come to an acceptable course of action for bringing down the failure rate of power transformers and also for financing the high costs of repairs and rehabilitation.

Keeping in view the above, the Central Board of Irrigation and Power, is organizing a International Conference on “Large Power Transformers – Modern Trends in

Application, Installation, Operation & Maintenance”, on 22-23 February 2017 at New Delhi in association with CIGRE-India.

TOPICS

Various topics of interest have been identified for deliberation during this Conference :

- Selection criteria for power transformers for power stations and sub-stations
- Checks and considerations for transportation of transformers
- Installation of transformers – do’s, don’ts, procedures and experiences Site drying
- Operational aspects – overloading, Over Voltage and over-fluxing considerations
- Maintenance of insulation system in transformers – paper and oil
- Residual life assessment and life extension techniques
- Refurbishment of transformers
- Site repair of power transformers
- Failure reporting, failure statistics
- Mitigation of Sympathetic Interaction between Power Transformers Fed by Long over Head Lines Caused by Inrush Transient Currents
- Transformer Condition Monitoring Advanced online moisture measurements in Power Transformers, Frequency response analysis of Fault detection Technique, Partial Discharge Testing of Power Transformer etc.
- Application of Dry type Transformer & their special features
- Accessories-especially bushings and OLTC-Monitoring and Control
- On-site testing of Transformers
- Asset Management and Risk analysis
- Transformer switching-current update
- S.C. Strength and SC Testing of power transformers
- Transformer noise mitigation and measurement
- Frequency conversion of measured transformer parameters
- Transformer paralleling
- Electrical steel and core performance
- Dielectric Frequency Response (DFR) testing
- Geomagnetic induced current and effects on Power Transformers
- Tank rupture and mitigation
- Taps in Autotransformers
- Transformers used with alternative Energy sources- Wind & Solar
- Gas filled Transformers

- Design and application of liquid immersed transformers with high temperature insulation materials
- Eco-design guide for power transformers
- Transformer procurement process
- Guide for assessment of transformer manufacturer.
- Can mock-up transformer replace complete full scale short circuit testing of transformers?
- Application of ester oil for large power transformer for improving reliability?
- How to improve shunt reactor reliability?
- On line condition monitoring and health indexing for extension of life.
- Guide for Transformer fire safety practices

WHO SHOULD ATTEND

Senior 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.

PAPER RECEIVED FROM FOLLOWING ORGANIZATIONS:

- Central Electricity Authority
- Power Grid Corporation of India Ltd.
- GETCO Limited
- NHPC Limited
- BHEL
- Karnataka Power Corporation Limited
- OPTCL, Bhubaneswar
- MSETCL, Mumbai
- Central Power Research Institute, Bhopal
- Bhabha Atomic Research Centre, Mumbai
- Schweitzer Engineering Laboratories, Inc., USA
- Enpay Transformer Components, TURKEY
- PFISTERER Kontaktsysteme GmbH, Germany
- M&I Materials Ltd., UK
- CYG Electronic Technology, China
- Crompton Greaves Limited
- SIEMENS Limited
- Larsen & Toubro Limited
- Bechtel (India) Pvt. Limited
- Doble Engg. Company
- BSES Rajdhani Power Ltd.
- IIT, Dhanbad & Jadavpur University, Kolkata

TUTORIALS

To avail the benefit of presence of experts from India & abroad at the above conference, Tutorials which covers the details about Transformer specification, design,

material, quality, manufacture including processing, tests and preparation for despatch are also being planned for 21st February 2016 at CBIP Conference Hall, Malcha Marg, Chanakyapuri, New Delhi 110021 preceding this International Conference.

REGISTRATION

The registration fee payable by the delegates, including authors of papers, for participation in the Tutorials and Conference is as follows:

Event	Fee per delegate		
	SAARC countries in INR	Other in US Dollar	For Students in INR
Tutorial	6,000	100	2000
Conference	12,000	400	5000
Conference & Tutorial	17,000	500	6000

**Service tax 14%, Swachh Bharat Cess @ 0.5%
Krishia Kalyan Cess @ 0.5% extra.**

The registration fee covers the cost of registration kit, Conference proceedings and lunch & tea in-between technical sessions. The participants will have to make their own arrangements for travel, boarding and lodging.

An accompanying person are wife/son/daughter or either an immediate relative or one normally residing with the participant.

Fee once paid will not be refunded normally. In exceptional cases, if a registrant is unable to attend the event and claims refund by 15th January 2017, fee will be refunded after deducting a service charge of 25 per cent. After this date, no request for refund will be entertained.

SPONSORSHIP OPPORTUNITIES

The Conference provides an effective opportunity for sponsoring companies to promote their products/services to a focused audience, besides networking with engineers of utility, manufacturers and academic institutions during tea/coffee and lunch intervals. Sponsors are assured of full visibility with printing of their names on proceedings, banners and other publicity material related to Conference and will have the privilege of distribution of their product's pamphlets/catalogues during the Conference. Sponsors will also have the privilege of sending delegates exempted from payment of registration fee as indicated:

Category	Fee	Delegates free	Free editorial in the proceedings
Platinum Sponsor	Rs. 5,00,000	10	5 pages
Golden sponsor	Rs. 3,00,000	6	3 pages
Silver sponsor	Rs. 2,00,000	3	2 pages

For further details, please contact the Conference Secretariat.

CALL FOR ADVERTISEMENTS

A limited space for insertion of advertisements in the Conference proceedings is available at the following rates:

Position	Charges for Colour Advertisements	
	SAARC countries (INR)	Other countries (US\$)
Back cover page	50,000	1000
Second or third cover page	35,000	750
Full page (20 cm x 10 cm)	25,000	650

Note : Material required in Pdf format or Coreldraw file.

The last date for receipt of advertisements is 15th January 2017.

EXHIBITION

An Exhibition is also being arranged at the venue of the conference at SCOPE Auditorium, Lodhi Road, New Delhi 110003 near the conference venue on 22-23 February 2017. Interested organizations are requested to book their stall. The Charges are given below:

2 m (d) x 3 m (w) Area = 6 Sq m @ Rs. 1,00,000/-

PAYMENT

Registration /Sponsorship/ Advertisements

Bankers Cheque Payable to

“Central Board of Irrigation and Power, New Delhi”

Bank Remittance to:

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Branch & Address: 209-214, Kailash Building, 26 Kasturba Gandhi Marg, New Delhi 110001

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Note : Service Tax 14% Swachh Bharat Cess @ 0.5% Krishia Kalyan Cess @ 0.5% extra on all the payments. No other method of payments is acceptable. Bank charges, if any must be borne by the participants and should not be deducted from the amount remitted to the organizer.

VENUE

- Tutorial – CBIP Conference Hall, Malcha Marg, Chanakyapuri, New Delhi 110021
- Conference – SCOPE Auditorium, SCOPE Complex, Lodhi Road, New Delhi
- Exhibition – SCOPE Auditorium, SCOPE Complex, Lodhi Road, New Delhi 110003

INDIA — THE HOST COUNTRY

India's ancient culture, rich heritage and living tradition of performing arts can provide conferences with quality. Its numerous art forms including folk dances, each with its own individual identity can be lively relaxation after hectic business sessions. It would set any participant on a new mission of discovery of India's sights and sounds.

NEW DELHI - THE HOST CITY

The Capital City of modern India has behind it centuries of history, which has enriched its culture. Broad tree-lined avenues and vistas suddenly give in to narrow alleys of cobble stones - taking you to an age of kings, princes, valour and bravery. Small shops huddled together, groan under the burden of age; small “dhabas” (roadside restaurants) selling freshly prepared delicacies; a wonderful collection of curious, handicrafts, jewels and jewellery. All within a few metres of fast-food restaurants serving everything from pizzas and hamburgers to colas and lemonades; glitzy shopping plazas; air-conditioned designer boutiques. This reflects the true spirit of New Delhi. Delhi is one of the world's best shopping centers. From handicrafts and antiques to all modern utilities – Delhi's shopping centers offer you everything under the sun. Delhi has all the modern facilities for hosting Conferences. It has a number of good hotels, which offer the best of the two worlds - international luxury combined with oriental hospitality.

Climate : The maximum temperature at Delhi in the second and third week of February ranges from 20-23°C and minimum temperature from 9-11°C.

CONFERENCE SECRETARIATE

Mr. V.K. Kanjlia

Secretary

Central Board of Irrigation and Power

Malcha Marg, Chanakyapuri

New Delhi-110021, India

Phone : 011-26876229/26880557/26115984

Fax : 011-26116347

E-mail : batra@cbip.org; cbip.batra@yahoo.com

Visit our Website : www.cbip.org

Contact Person : Shri S.K. Batra, Chief Manager-Technical
M: 9811943812

TRAVEL MANAGER

Pearl International Tours & Travel Ltd.

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904, Rohit House, 3, Tolstoy Marg

New Delhi - 110 001, India

Tel : 91 11 23442100 www.lcc-pearl.com

Contact Person : Neeraj Kumar

E-mail : neeraj.kumar@pearlmail.com