

# National Conclave on Latest Trends in Switchgear Technology and Maintenance

29-30 October 2012  
New Delhi

Venue : Conference Hall of CBIP

Organiser



In association with

**Megger**<sup>®</sup>



## ANNOUNCEMENT

Central Board of Irrigation and Power (CBIP) is organizing a National Conclave on Latest Trends in Switchgear Technology and Maintenance in association with Megger on 29-30 October 2012 at New Delhi.

## AIM AND INTRODUCTION

The present installed capacity of Indian Power Sector is about 2,02,980 MW. It is proposed to add about 200,000 MW more by 2022 to have installed capacity of India more than 400,000 MW.

The length of Transmission line at various voltages up to 765 kV is about 3,00,000 circuit kms. with transformation capacity of about 4,25,000 MVA. It is proposed to add about 2,50,000 circuit kms. transmission line and about 6,00,000 MVA by 2022. Construction work on 800 kV AC and DC lines is also in progress in our country. 1200 kV UHV transmission technology has been developed for the first time in India at Bina (Madhya Pradesh).

As above vast expansion will require latest technology in different areas and lot of development on Switchgear Technology has been carried out in respect of Design, Erection, Testing, Operation & Maintenance. To discuss the various issues connected with the subject, CBIP is organizing a National Conclave on Latest Trends in Switchgear Technology and Maintenance on 29-30 October 2012 in the Conference Hall, CBIP Building, Malcha Marg, New Delhi 110021.

In an electric power system, Switchgear is the combinations of electrical disconnect switches or circuit breakers used to control, protect and isolate electrical current system. Besides this, Switchgear is playing an important role in a power system as it is directly linked to the reliability of the electricity supply.

A malfunction in the switchgear, however, can create severe problems to the system. Additionally, malfunctions within the switchgear can also result in damage to the switchgear itself.

Most damage to electrical switchgear is caused by a combination of water, dust, high humidity and vibrations. Moisture and dust combine to form an insulating layer on surfaces, reducing heat transfer from the components and increasing component operating temperatures. Similarly, moisture and dust coat components, restricting their movement causing excessive wear and tear. Vibrations can also cause problems in the Switchgear.

## FACULTY

Eminent experts from Utilities, Manufacturing organizations and Academic field shall be drawn as faculty. The following renowned experts in field have confirmed to deliver the lecture during the conclave:

- Mr. Roberts Neimanis, Application Specialist, Megger, Sweden
- Mr. Nils Wacklen, Product Manager, Megger, Sweden.
- Mr. Simanand Gandhi Jeyaraj, Application Engineer, Megger Ltd., UK.
- Mr. B.N. Kishore, Former Vice President, Crompton Greaves Ltd. (High Voltage Switchgear Division)

## TOPICS

The National Conclave on Latest Trends in Switchgear Technology and Maintenance covers a wide range of topics. It provides a forum for professionals and specialists to share ideas, innovations and experiences on the subject. In addition to covering established methods, it also examines new techniques currently in development, including their theory and demonstrations of how they can be applied.

The following topics will be deliberated during the course of two days deliberations of the Conclave:

- Developments in HV/EHV Breakers
- Basics of Breaker Testing and Challenges in EHV Breaker Testing
- Vibration Testing
- GIS Breaker Testing
- Recommendation and Practices of Switchgear Technology as per various IEC and other standards
- First Trip Testing
- Case Studies - Covering some critical breakers.

## CALL FOR PAPERS/CASE STUDIES

Experts who desire to participate for delivering lectures on different aspects of Switchgear Technology including case studies are requested to furnish the write-ups to reach CBIP office latest by 15th October 2012.

## DATE & VENUE

The Conclave will be held on 29-30 October 2012 (Monday & Tuesday) in the Conference Hall of Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi - 110021 (Phone: +91 11 26116567/26115984; Fax: +91 11 26116347; E Mail: batra@cbip.org; cbip.batra@yahoo.com;

## REGISTRATION

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

Delegate Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Organization : \_\_\_\_\_

Mailing address : \_\_\_\_\_

Phone/Fax/E-mail : \_\_\_\_\_

Registration Fee is Rs. 10,000/- per participant. Concessional fee for CBIP, CIGRE members will be Rs. 9,000/- per participant. Service tax 12.36% extra. Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the conclave.

## OTHER ATTRACTIONS

Scope exists for organizations to be sponsor on lump sum payment of Rs. 1,00,000/- with following attendant benefits:

- Name of organization in the list of sponsors
- Organization may nominate five delegates
- One full advertisement in proceedings volume
- Distribution of literature/brochures

## SECRETARIAT

### Shri V.K. Kanjlia

*Secretary*

Central Board of Irrigation and Power  
Malcha Marg, Chanakyapuri, New Delhi - 110 021  
Tel: 91-11-26115984/26116567 Extn: 133  
Fax: 91-11-26116347 E-Mail batra@cbip.org  
cbip.batra@yahoo.com; Web : <http://www.cbip.org>

### Contact persons :

Mr. S.K. Batra, *Senior Manager - Technical*

### Notes:

All correspondence should be addressed to the "Secretary, Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi 110 021.

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 ICICI Bank Ltd.; 16/48, Malcha Marg, Chanakyapuri, New Delhi 110021; Telephone; 41680133-34-35; Account No. ; 034601000738; Account type; Special Savings Account; 9-digit code number of the bank and branch; 110229052; IFSC code: ICIC0000346

Participants will have to make their own arrangement for travel, boarding and lodging, etc.



## KEY SPEAKERS

Eminent experts on the subject from various organizations shall be drawn as faculty. The following renowned experts in field have confirmed to deliver the lecture during the Conclave.



**Mr. Roberts Neimanis** is presently with MEGGER as Application Specialist, Tockholm / Stockholm at SWEDEN. He has done Doctor of Philosophy in Electrical Engineering from Royal Institute of Technology, Stockholm, Sweden. Mr. Roberts has been Manager for the Control Centre of High Voltage Network in Riga, Latvia. Mr. Roberts started working for MEGGER Sweden (formerly PROGRAMMA) in 2001 as application specialist in the field of insulation testing and diagnostics. Mr. Roberts received his M.Sc. in Electrical Engineering from the Riga Technical University, Latvia in 1995, Tech. Dr. Sc. Eng. from Riga Technical University, Latvia in 1998, and Ph.D. from Royal Institute of Technology,

Sweden in 2001. He is currently working as application specialist in the field of high voltage breaker testing and diagnostics.



**Mr. Nils Wacklen** graduated in Electrical Engineering from Royal Institute of Technology, Stockholm, Sweden. Mr. Nils has been with MEGGER Sweden (formerly PROGRAMMA) since 1984 working as development engineer and application specialist in the field of circuit breaker testing and diagnostics. Mr. Nils is currently Product Manager for the Circuit breaker testing equipment product line.



**Mr. Simanand Gandhi Jeyaraj** is Masters in Electrical Power Engineering from University of Greenwich, UK. Mr. Simanand Gandhi Jeyaraj is currently an Application Engineer in Megger Ltd., UK with 18 years of experience in Tamil Nadu Electricity Board and in Sri Ramakrishna Engineering College, Tamil Nadu, India. His areas of expertise were testing, commissioning, and maintenance of EHV substations and protection relays. He has travelled to more than 14 countries and over 100 different Utility sites for testing, providing on-site training and application support. He is an active member of IEEE.



**Mr. B.N. Kishore** is B.E. Hons. in Electrical Engineering in the year 1964 and completed M.Sc. in Electrical Engg. in the year 1966. Worked in BHEL – Hyderabad for 12 years in various capacities in the Design and Development of High Voltage Circuit Breakers in technical collaboration with ASEA-Sweden. Trained at Ludvika Works of ASEA Sweden. Worked in Crompton Greaves High Voltage Switchgear Complex for 21 years (1980 to June 2001). Held various key positions from Chief Design Engineer to VP – Technology and made major contributions in the area of MV / HV / EHV (up to 420 kV) Switchgear Design / Development / Testing / Manufacturing etc. Trained at Mitsubishi Works in Japan

for the design and development of High Voltage Circuit Breakers. Had many opportunities to visit Kema-Holland / CESI Italy for the short circuit testing of HV Breakers, EDF France, Hitachi works-Japan, NGK-Japan, Haefley Switzerland, Cellpack Switzerland, Brush Switchgear – UK, NEI Reyrolle-UK, Hollek-Netherland etc.

Professional / Honorarium held during the service:

- Member Cigre (Paris) Study Committee 23-HV Substation Design.
- Working Group Member-representing India on International Standards (IEC) Study Committee 29 – Electrical Endurance Test on HV Breakers.
- Member-representing India on the Maintenance of International Standards (IEC) for MV and HV Circuit Breakers.
- Convener ET 08 –India – To examine the standards of HV Switchgear.
- Member of 400 kV and 800 kV Forum of India.
- Presented many technical papers in National and International conferences / seminars.

Representing KEMA since 1st July 2001.





# Central Board of Irrigation & Power

An ISO 9001 : 2008 Organization

No. 38(1000)/Power/Conclave/Switchgear/2012

Dated 14<sup>th</sup> September 2012

**To all concerned**

**Sub: National Conclave on Latest Trends in Switchgear Technology and Maintenance on 29-30 October 2012 at CBIP Conference Hall, New Delhi - Request for Nomination**

Dear Sir,

Central Board of Irrigation & Power (CBIP) has played a key role in dissemination of technical knowledge in the country & abroad relating to Power and Renewable Energy Sectors for the last more than 85 years by way of organizing conferences/ workshops/tutorials and bringing out various publications.

Keeping in view the above, CBIP now is organizing a **National Conclave on important subject i.e. Latest Trends in Switchgear Technology and Maintenance** on 29-30 October 2012 at Conference Hall, CBIP Building, Malcha Marg, New Delhi - 110021 in association with Megger.

### **Topics**

The topics for Conclave have been identified keeping in view the present-day scenario and we are sure that the deliberations during Conclave will go a long way in updating the knowledge of participants and they will have an excellent opportunity to interact and exchange their views with the International and National Experts:

- Developments in HV/EHV Breakers
- Basics of Breaker Testing and Challenges in EHV Breaker Testing
- Vibration Testing
- GIS Breaker Testing
- Recommendation and Practices of Switchgear Technology as per various IEC and other standards
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- Case Studies - Covering some critical breakers.

### **Key Speakers**

Mr. Roberts Neimanis, Application Specialist, Megger, Sweden, Mr. Nils Wacklen, Product Manager, Megger, Sweden, Mr. Simanand Gandhi Jeyaraj, Application Engineer, Megger Ltd., UK and Mr. B.N. Kishore, Former Vice President, Crompton Greaves Ltd. (High Voltage Switchgear Division) have confirmed to be the Key speakers during this Conclave.

**We seek your kind cooperation in making the event successful and request you to kindly arrange to nominate a few officers from your organization to participate in the Conclave.** A copy of the Information bulletin giving details about topics, registration fee etc. is also enclosed for ready reference please.

Thanking you,

Yours faithfully

**V.K. Kanjlia**  
Secretary

DA: As above

DA: Information bulletin

Malcha Marg, Chanakyapuri, New Delhi 110 021  
Tel : 91-11-2687 6229, 26116567, 2687 5017, 2410 2437  
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