

Online Practical Training

# Gas Insulated Substations

(Under the aegis of CIGRE NSC B3 on Substations)

14-16 July 2020 at 14:30 PM



Organised by



Central Board of  
Irrigation & Power



In association with



## KEY TAKEAWAYS

- Evolution, Basic Design, Basics of SF6.
- Comparison of different arc interrupting principles.
- Comparison of AIS V/s GIS.
- Specifications and standards.
- Basic Concepts of GIS System Engineering.
- GIS Components - Circuit Breaker, Current Transformer, Voltage Transformer, Isolator, Fast acting earth Switch, Enclosures, and Insulators.
- Different Interconnection arrangements in GIS.
- System engineering of GIS - layout, earthing, VFTO and scheme diagram etc.

## Key Speakers



**Shri Nihar Raj**

Vice President, Business Head: Power Consulting Asia, ABB India Ltd. and Chairman CIGRE NSC B3



**Shri S.K. Ray Mohapatra**

Chief Engineer, Central Electricity Authority & Chairman CBIP's Expert Group on Substations



**Shri Rajil Srivastava**

Sr. General Manager, Power Grid Corporation of India Limited and Former Chairman CIGRE NSC B3

## Participation Fee

**INR 5,000 + 18% GST per participant**

The program is limited to 200 participants. Which will be on First cum First serve basis.

## BACKGROUND

Central Board of Irrigation & Power (CBIP) a premier Institution, setup by GOI in 1927 is serving the nation in the disciplines of Power, Renewable Energy and Water Resources Sectors for more than 94 years.

It is an exchange and knowledge bank for dissemination of technical knowledge & professional experience to help Engineers/ Professionals to update their knowledge and gain practical know-how.

### CBIP'S MAIN OBJECTIVE IS:

- to disseminate technical knowledge through various modes, e.g., publication of technical documents, organizing conferences /workshops
- to provide specialized training to the professionals in the Power, Renewable Energy and Water Resources Sectors.

In this new COVID-19 situation, skill enhancement and training of professional has emerged as a very important aspect and a challenge. During 2019, CBIP has successfully completed many workshops for hands on training with excellent participation and feedback. Online training is our attempt to continue giving nearly hands on training experience to participants.

The unique features of this on line practical trainings will be high safety of participants in COVID19 situation as no travel is involved. In addition to that there will be virtual tour to manufacturing shops, Expert panel discussions with case studies, Demonstration of practical aspects through videos etc.

It is with above aim the CBIP in association with ABB Power Tec is organising on line practical training program on "**Gas Insulated Substations**" from **14-16 July 2020** (14.30 to 16.30 hrs daily). The eminent faculties from CEA, POWERGRID, ABB and other invited experts on the subject will deliver the presentations covering following topics:

- Evolution, Basic Design, Basics of SF6.
- Comparison of different arc interrupting principles.
- Comparison of AIS V/s GIS.
- Specifications and standards
- Basic Concepts of GIS System Engineering.
- GIS Components - Circuit Breaker, Current Transformer, Voltage Transformer, Isolator, Fast acting earth Switch, Enclosures, and Insulators.
- Different Interconnection arrangements in GIS
- System engineering of GIS - layout, earthing, VFTO and scheme diagram etc.

### UNIQUE FEATURES OF ON LINE PRACTICAL TRAININGS

- Virtual Instructor led Training Program
- Training with high safety of participants w.r.t. COVID19 as no travel is involved
- No travel related costs
- Learning and working balance as our sessions are planned for half day
- Flexibility to join via android / ios mobile phones
- Well proven online platform with high cyber security.
- Live message chat, Live voice chat, polls and Quiz Real time engagement
- Virtual tour to Manufacturing shops

- Experts Panel discussions with Case studies
- Working Group Discussion within participants
- Demonstration of practical aspects through videos
- E-Certificates

#### Note :

- (a) Audio/video recording is prohibited however the presentations will be send to the mail of the participants
- (b) CBIP will not be responsible for any quality and interruption of audio/video due to poor internet connectivity at the customer end
- (c) Online training session link will be provided to the participants only. Forwarding the link to other person is strictly prohibited
- (d) The participants will be required to adhere the time schedule fixed for the training

### WHO SHOULD ATTEND?

The training program is open to various utilities and industry organizations/ individuals in the field of power system.

### COVID 19 SPECIAL REGISTRATION FEE

The duration for each on line training will be of 3 days (2 hrs on each day) out of which 1hr 30 minutes will be for technical session followed by 30 minutes for question/ answer session. The Registration fee for each training will be Rs. 5,000/- per participant (for 3 days)

- 18% GST will be extra.

**The program is limited to 200 participants. Which will be on First cum First serve basis.**

### TO REGISTER

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

Title of Training \_\_\_\_\_

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

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

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

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

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

**Note :** After registration, the participants will be provided the link 1 day prior to the session to participate in the Technical session

(GST No. 07AAAJC0237F1ZU)

Payments of registration fee 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

**G.P. Patel**, Secretary, CBIP

**A.K. Bhatnagar**, Director, CBIP

Nodal Officer : Shri SK Batra, Chief Manager,

M : 9811943812 E-mail : batra@cbip.org

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