



Online Training Program On **GENERATOR & AUXILIARIES**



under the aegis of CIGRE Study Committee A1 on Rotating Electrical Machines

10-12 AUGUST, 2021 (1500-1630 HOURS)

KEY TAKEAWAYS

- Theory and Working principal of Generator
- Major factors governing Generator design
- Constructional features
- Various components and their usages
- Metallurgical & material aspects
- Operational features
- Details of Stator water system, Seal oil system, Gas system, Operational, controls and monitoring



KEY SPEAKER

Shri A K Mukherjee
Former ED, NTPC

CONTACT US

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ABOUT ORGANISERS

Central Board of Irrigation & Power (CBIP)

a premier Institution, setup by Government of India in 1927 has been serving the nation in the disciplines of Water Resources, Power & Renewable Energy Sectors for more than 93 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 and to provide specialized training to the professionals in the Water Resources, Power & Renewable Energy Sectors.

The International Council on Large Electric Systems (CIGRE) Paris

provides an international forum to engineers working in various fields of Electricity Generation & High Voltage Transmission System. CIGRE is a knowledge sharing platform with more than 10000 experts worldwide with participation from more than 90 countries. It has sixteen study committees covering different subjects of power sector. The study committee SC A1, which deals with Rotating Electrical Machines, has 75 regular members from world's leading manufacturer of turbo generators, hydro-generators, large motors, and machine diagnostics and also from utilities and leading Engineering institutes.

CIGRE India functions as one of the National Committees for CIGRE HQ (Paris). The CIGRE (India) coordinates interests of Indian members, organizes National Study Committee (NSC) meetings and recommends appropriate persons for CIGRE Study Committees.

OBJECTIVE

In view of the current scenario and with the aim to discuss and give a better understanding to the professionals and engineers about Generator and its auxiliaries, **CBIP** jointly with **CIGRE-India** under the aegis of **CIGRE SC A1** on Rotating Machines is organizing an online training program on **"GENERATOR & AUXILIARIES"** on 10th-12th Aug, 2021 (1500-1630hrs).

AGENDA

DAY-1

10th August, 2021 (1500 -1630 hours)

- ✦ Theory and Working principal of Generator
- ✦ Major factors governing Generator design
- ✦ Constructional features
- ✦ Q&A session

DAY-2

11th August, 2021 (1500 -1630 hours)

- ✦ Various components and their usages
- ✦ Metallurgical & material aspects
- ✦ Operational features
- ✦ Q&A session

DAY-3

12th August, 2021 (1500 -1630 hours)

- ✦ Details of Stator water system, Seal oil system
- ✦ Gas system, Operational, controls and monitoring
- ✦ Q&A session

UNIQUE FEATURES OF ONLINE PRACTICAL TRAININGS

- Virtual Instructor led Training Program
- Training with high safety of participants w.r.t. COVID19
- 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
- Experts Panel discussions with Case studies
- Working Group Discussion within participants
- Demonstration of practical aspects through videos
- E-Certificates

WHO SHOULD ATTEND?

The training program is open to the professionals in the plants, Industry end customers, Power plant Utilities, Technical consultants, etc.

REGISTRATION FEE

The duration for the training program will be of 90 minutes each day (1500-1630 hours) which will be followed by Q&A session.

The participation fee for full 3 days shall be:

Number of Participants	*Member Fee per nomination	*Non-member Fee per nomination
1 or more	Rs.3,000	Rs.3,600
5 or more	Rs.2,800	Rs.3,200
10 or more	Rs.2,400	Rs.2,800
15 or more	Rs.2,000	Rs.2,400
Ph.D Scholars or M.Tech Students(max age=35 years)		Rs.1,000

***18% GST will be charged extra.**

(GST No. 07AAAJC0237F1ZU)

TO REGISTER:

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

Name: _____
Designation: _____
Organization & GST Number _____
Mailing address: _____
Mobile No.: _____

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 Acc. No: 00031110004411;
Swift Code: HDFCINBBDEL;
IFSC:HDFC0000003; **MICR Code:**110240001

HOW TO JOIN

The program is limited to 200 participants & it shall be conducted in Microsoft Teams.

After registration, the participants will be provided the link 1 day prior to the session to participate on their registered e-mail ids. The link shall be open for joining on 1430 hours on 10th August, 2021.

Steps to join the program:-

For joining through laptop:-

Step-1:- Click on the link provided.
(Your internet browser will open along with 3 options)

Step-2:- Click on the option “**Continue on this browser**”
(The Microsoft Teams window will open on the browser with a field to write the name)

Step-3:- Enter the name of organization and yourself and click on “**Join Now**”
(example: CBIP-Shashank)

For joining through mobile/smartphone:-

Step-1:- First Download the MicroSoft Teams App from play store/ app store on your phone

Step-2:- Click on the link provided.
(Microsoft Teams app will open along with 2 options)

Step-3:- Click on the option “**Join meeting**”
(A window to enter the name will open on the browser)

Step-4:- Enter the name of organization and yourself and click on “**Join meeting**”
(example: CBIP-Shashank)

****Only the registered participants shall be allowed to attend the program****



ADDRESS FOR CORRESPONDENCE

Shri A.K. Dinkar, Secretary, CBIP

Nodal Officer: Shri Shashank Sharma,
Assistant Manager,
9650782428

E-mail:- shashank@cbip.org,
cbip@cbip.org
shashank271993@gmail.com;

Central Board of Irrigation & Power
Malcha Marg, Chanakyapuri,
New Delhi – 110021, Phone: 011 26115984

Note:

- **Audio/video recording is prohibited; however the presentations will be shared with participants via e-mail.**
- **Organizers will not be responsible for any quality and interruption of audio/video due to poor internet connectivity at the customer end.**
- **Online training session link will be provided to the participants only. Forwarding the link to other person is strictly prohibited.**
- **The participants must adhere to the time schedule fixed for the training**

BRIEF OF EMINENT EXPERT



✚ **MR. A K Mukherjee** is former Executive Director, NTPC.

✚ He is an Electrical Engineer having 39 years of experience in O&M of various power plants of NTPC.

✚ His domain of expertise is maintenance of various electrical equipment like Generator, Motor and Transformer etc.

✚ He has introduced Natural Frequency Testing of generator winding as maintenance practice for which he was invited to present paper in IRIS Rotating machine conference in USA & CBIP.

✚ He has also developed R&M Philosophy & Guideline for Generator. Apart from this various new monitoring & maintenance technique has been introduced by him.

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