

# 05 Days Training Program on Power Transmission System –Design, Construction, Testing & Commissioning and O&M

PRESENTATION IN **HYBRID  
MODE**

DATE-20 -24 March 2023



**ORGANIZED BY**  
Central Board of Irrigation and Power  
CBIP Centre of Excellence



**UNDER THE AEGIS OF**  
The Society of Power Engineer (India)

**VENUE**

Central Board Of Irrigation and Power  
Centre of Excellence, Plot- 21, Sector-32, Gurgaon.



## INTRODUCTION

Power transmission is an integral part of the power sector and is as vital as power generation. The huge amount of power generated in power station is to be transported over a long distance to the load centers to cater to the consumers with the help of transmission lines and transmission towers.

Expansion of Transmission and Distribution network commensurate with the addition of generation capacity and growth in demand is required, in order to extend a reliable, stable and secure power supply. This needs an optimal and economical planning of the transmission system.

Power transmission utilities in the present days are more dependent on the standard designs for constructing transmission to minimize the capital cost. Delays in PT projects have a significant adverse effect on the economic development of a country. Like most capital projects, transmission lines also face challenges during various phases including construction. The usual challenges in the construction phase of transmission lines include change in layout, land management, contractors, interfaces, financing, contract disputes etc.

Keeping all these aspects in mind, Central Board of Irrigation and Power (CBIP) is organizing a 05 days (20-24 March,2023) training program on **Power Transmission System- Design, Construction, Testing & Commissioning and O&M** which will include deliberations to understand the basic of Contractual Management, Procurement of Goods & Services, e-procurement, Statutory approvals, Construction of Transmission line in Hills & Plain, Transmission Design, best O&M Practices, Disaster Management Safety during construction of transmission line, EHV Substation, GIS Substation etc.

## PROGRAMME OBJECTIVE

The Objective of this training is to provide the know how of Advanced Management Skills and make Managers future ready to take up challenges of during the various phases including construction, design and O&M of the projects.

Participants shall be awarded a certificate of participation from Central Board of Irrigation and Power, a pioneer organization in the field of Power, Renewable Energy and Water Resources sectors and accredited training institute by Ministry of Power, Govt. of India

## WHO MAY ATTEND

- Transmission Line Managers
- Project Engineers
- Construction & Field Engineers
- Engineers from State Transmission Utilities
- Transmission Licensees
- Transmission / Sub Transmission Developers

## METHODOLOGY OF THE TRAINING

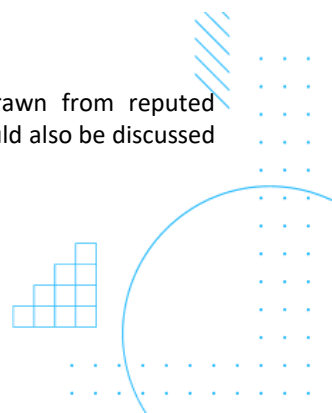
Highly interactive training sessions by subject matter experts, presentations from the experts, Case Studies and Group Discussions. The duration for the training will be for 5 days. The methodology will be Hybrid mode session, i.e., Participants can participate either physically or in virtual/ online mode. The online will be shared through MS Teams platform by link which will be provided by CBIP.

**The event is nonresidential. Participants will have to make their own arrangements for travel, boarding and lodging etc.**

Participants taking part in Physical mode will be provided training material/ tools & kits, each Candidate shall be provided a Certificate at the end of the Training Programme. Participants with Virtual mode will be provided MS Teams link to join session virtually, Recording of sessions, training study material/ PPTs and Certificate.

## FACULTY

Experienced and reputed faculty having in-depth knowledge of subject shall be drawn from reputed organizations like PGCIL, State Transmission Utility, Pvt Sector etc. The case studies would also be discussed so as to make this training program effective and meaningful.



## PROGRAM SCHEDULE

The Detailed schedule for the 05 days training program is as follows:

Day	Topic
<b>Day 1 (Monday)</b>	<ul style="list-style-type: none"><li>• Specification Finalizations including Packaging and Tendering for Awarding the Contracts.</li><li>• Procurement of Good &amp; Services including e-procurement and Inventory Management.</li><li>• Various statutory needs (forest, river crossing, sanctuary, airport etc) – Environmental Challenges in Transmission Projects.</li><li>• Statutory clearances.</li></ul>
<b>Day 2 (Tuesday)</b>	Construction of Transmission Line in Hills & Plain <ul style="list-style-type: none"><li>• Survey and Profiling of transmission Line</li><li>• Foundation work for towers</li><li>• Critical check points in tower erection</li><li>• Stringing Operation of Transmission lines</li></ul> General Overview of Tower Design <ul style="list-style-type: none"><li>• Input assumptions for tower design and its implication of tower life</li><li>• Design parameters of Transmission lines including factor of safety</li></ul>
<b>Day 3 (Wednesday)</b>	O&M Practices of Transmission Line <ul style="list-style-type: none"><li>• General overview of O&amp;M</li><li>• Condition based maintenance and new technology initiatives in Transmission line</li><li>• Best maintenance procedure including Thermo vision scanning of Transmission lines</li><li>• Hot line maintenance</li><li>• Transient Fault Analysis and interpretation in Transmission Line</li></ul>
<b>Day 4 (Thursday)</b>	Disaster Management <ul style="list-style-type: none"><li>• Emergency restoration of damaged Transmission line</li><li>• Issues encountered during natural calamity and remedial measures</li></ul> Safety during erection and construction of Transmission line Earthing System of Transmission Lines Introduction of EHV Substation
<b>Day 5 (Friday)</b>	General Operation & Maintenance of AIS Substations and its Equipment and its Importance General Operation & Maintenance of GIS Substations and its Equipment and its Importance

## REGISTRATION FEES

- For Physical mode- Rs. 20,000/- per participant + 18% GST shall be charged extra.
- For Online mode- Rs. 10,000 /- per participant + 18% GST shall be charged extra.
- 10% Discounted fee for members of CBIP & SPE, per participant, i.e.,
  - For Physical mode- Rs. 18,000/- per participant + 18% GST shall be charged extra.
  - For Online mode- Rs. 9,000 /- per participant + 18% GST shall be charged extra.

The registration fee (Physical mode) will cover the professional fees; working lunch; Tea/ coffee/ snacks during the course.

 **Group Discount facility would be available for more than 5 no. of participants from same organisation, i.e.,**

- For Physical mode- Rs. 16,000/- per participant + 18% GST shall be charged extra.
- For Online mode- Rs. 8,000 /- per participant + 18% GST shall be charged extra.

**SEATS- Only First 35 Participants will be accommodated for Physical Mode** and rest will have to participate with Virtual Mode.



## PAYMENT

All payments be made through Cheque at par/ Demand Draft drawn in favour of “Central Board of Irrigation & Power”, payable at Gurgaon

[OR]

By Bank Transfer to the following Bank Account-

Beneficiary Name	: Central Board of Irrigation & Power
PAN No.	: AAAJC0237F
GST No.	: 06AAAJC0237F1ZW
Bank Details	: Indian Overseas Bank, Sco 26, Sec-31, Gurgaon, Haryana, PIN-122001
Saving Bank Account No.	: 236701000000922
Branch RTGS/ NEFT/ IFSC	: IOBA0002367
Branch Code	: 2367

After the online payment in respect of the event, the details like UTR/ Organization name to be furnished immediately.



The workshop 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. Main banner and other publicity material related to workshop and will have the privilege of distribution of their product's pamphlets/catalogues during the event. Sponsors will also have the privilege of sending delegates exempted from payment of registration fee as indicated hereunder.

SPONSOR REWARDS	Platinum Sponsor: Rs. 1,50,000/-	Gold Sponsor: Rs. 1,00,000/-	Silver Sponsor: Rs. 75,000/-
• Delegate passes for participation in the workshop.	4	3	2
• Company logo on main backdrop and other banners.	✓	✓	✓
• Circulation of company literature during the event	✓	✓	✗
• Announcement- Thanking sponsor	✓	✓	✓
• Speaking opportunity	✓	✗	✗
• Invitation to the key person of the organization as special invitee during Inaugural session	✓	✓	✗
• Complementary advertisement in the Key Journal Published immediately after the event covering report of the event	✓	✓	✗

## ADDRESS FOR CORRESPONDENCE

**Shri. A. K. Dinkar**, Secretary, CBIP

Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi -110021

**Shri Sanjeev Singh**, Director (Energy), CBIP

Central Board of Irrigation and Power, Centre of Excellence, Plot No-21, Sector-32, Gurgaon, Haryana-122001  
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**Nodal Officer:** Shri. M. R. Chauhan, Jt. Advisor, CBIP, M: 9910378129, E-mail: [mrchauhan@cbip.org](mailto:mrchauhan@cbip.org)

Shri. Jaideep Singh, Sr. Manager (T), M: 9871718218, E-mail: [jaideep@cbip.org](mailto:jaideep@cbip.org)

### \*Note-

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.



## HOW TO REGISTER

The participants/ participating organizations, desirous of attending the above training may register themselves by Online or Offline mode, along with necessary payments. **Participants are advised to bring GST No, of their organization along with name of office to whom the invoice is to be sent.**

[CLICK TO REGISTER \(Online Application\)](#)

Or by sending the following details to CBIP by mail / email through Offline Mode

REGISTRATION FOR	
(To be filled in block letters preferably)	
1.	Name : _____
2.	Position : _____
3.	Organization : _____
4.	Address : _____
5.	Phone : _____ Fax No. _____
6.	Email : _____
Date _____	
Signature _____	

## ABOUT THE ORGANIZERS

### About CBIP

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 95 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.

### Strengths of CBIP

- A 95 years old establishment into dissemination of knowledge in Power, Irrigation and Renewable sectors.
- Almost all reputed utilities of Power, Irrigation and Renewable sectors of the country are the institutional members and at least 3000 senior officers of the level of Chief engineer and above from these sectors are the members.
- Easy availability and access to the reputed and highly experienced faculty because of above two facts.
- Has a strong base of the very senior officers with deep experience of various disciplines of Power and irrigation sector.

Has the secretariat of at least 10 international organizations and the Secretary CBIP is the secretary or the member secretary of their India chapters.

### About Society of Power Engineer (SPE India)

The Society of Power Engineers (India) is an apex body engaged in the activities of technological upliftment of the power engineers of this country by making available latest technological developments all over the world to the members. Publication & distribution of information Journal, Workshops/Seminar, group discussion are regular features of the society.

The aims and objects for which the Society is constitute to promote the advancement of power engineering and allied subjects, and their applications, and to provide facilities for the exchange of information and ideas on those subjects amongst the members of the Society and for that purpose

### Who can become Member of Society of Power Engineers (India)

- Any students' studying for Diploma in Engineering or Degree in Engineering in any Discipline having inclination to work on Power Sector.
- Any Diploma or Degree holder in any discipline having power engineering related interest.
- Any Institute which is engaged in the power engineering business or is interested in Development of power Sector.

### Membership Grade

- Student
- Associate Member
- Member
- Life Member
- Fellow Member
- Institution Member

### Membership Fee

For Student Member: Rs.500/- (including Admission Fee and annual Subscription Fee and Local Fee).

For Associate Member: Rs.700/- (including Admission Fee and annual Subscription Fee and Local Fee)

### The Benefits and Opportunities of SPE India Members are outlined below

- Members will have access of half yearly periodic Journal contains latest articles by the experts
- Members will have preference to publication of article in the Society Journal
- Members can have free online access of SPE INDIA and CBIP's international Societies technical papers / presentations and publications.
- Free online access to Telephone Directory of Key Personnel in Power, Renewable and Water resources sectors being published by CBIP
- Regular intimation about the activities and events being organized by Society and its chapters from time to time.
- 10% discount maximum up to Rs. 500/- in the participation fee for the events being organized from time to time by the Society.
- 10% concession for publishing advertisement in the periodical/Journal of the Society.
- Inclusion of one page write-up about the Organization in Journal for Institutional Members.
- Network and opportunity to interact with industry leaders and corporate officials during various events being organized by Society, which will help the student members for making their career in power sector.
- Members will receive "Certificate of Membership"
- Student Members will have opportunity to participate in online quiz being organized by Society free of cost
- Save Rs.2500 to Rs.5000 per annum while attending various events organized by SPEINDIA time to time.

**\*\*For More Details and to Become a Member of SPE India Please Click\*\***

