



TWO DAYS WORKSHOP ON

**PARTIAL DISCHARGE MONITORING FOR POWER TRANSFORMERS,
GAS INSULATED SWITCHGEAR, CABLE AND ROTATING MACHINES**

JOINTLY ORGANISED BY CBIP, ERDA & SPE



Date: 25th & 26th April, 2024

Venue -

Grand Mercure Vadodara Surya Palace
Opposite Parsi Agiary, Sarod, Sayajiganj,
Vadodara, Gujarat 390020

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ANNOUNCEMENT

Central Board of Irrigation and Power (CBIP) and Electrical Research and Development Association (ERDA) are jointly organizing Two Days Workshop on “Partial Discharge monitoring for Power Transformers, Gas Insulated Switchgear, Cable and Rotating Machines” on 25th & 26th April, 2024 at Grand Mercure Vadodara Surya Palace, Vadodara, Gujarat.

OVERVIEW OF THE WORKSHOP

In modern power systems, condition based monitoring and diagnosis is essential to ensure the effective and reliable operation of different high voltage equipment (HVE). Compared to other monitoring techniques, partial discharges (PD) measurement is considered as a key method for assessing the insulation health condition. The benefits of PD condition monitoring of HVE can be extended by proper detection, identification, and interpretation of PD signal.

Partial discharge or PD is caused by local electrical stress in the insulation or on the surface of the insulation in electrical assets. PD testing and monitoring solutions help in detecting and assessing insulation defects which can lead to failures in electrical system.

The recent remarkable changes in electric power generation, transmission & distribution and the latest development to High Voltage (HV) test and measuring techniques result in new adaptations. The program intends to deliver the state of the art as well as the future trends in testing and diagnostics of HV equipment based on long-term experience gained by the Experts in this domain.

PROGRAMME OBJECTIVE

In order to discuss and find solution to the various issues connected with the above subjects, Central Board of Irrigation & Power (CBIP) and Electrical Research and Development Association (ERDA) are jointly organizing this Interaction based Specialized Workshop on “Partial Discharge monitoring for Power Transformers, Gas Insulated Switchgear, Cable and Rotating Machines” on 25th & 26th April, 2024 at Vadodara (Baroda), Gujarat, India.

Participants shall be awarded a certificate of participation from CBIP, 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

- Managers, Engineers & Executives from Testing & Certification and Research organization
- Managers, Engineers & Executives from State Transmission & Distribution Utilities
- Testing and Commissioning Engineers
- Project Engineers, Construction & Field Engineers

ABOUT CBIP

Central Board of Irrigation and Power is a Premier Institution set up by the Government of India in the 1927. CBIP has been rendering dedicated services to the professional organizations, engineers and individuals in the country related to Power, Water Resources and Renewable Energy Sectors for the last 96 years.

Main objectives of CBIP are Dissemination of technical knowledge and information, through various modes, e.g., publication of journals, manuals, technical reports, guidelines, organizing seminars and conferences, recognition of technical excellence through bestowing awards, to provide training to the engineers/professionals, to provide consultancy services, to provide research and professional excellence, to provide linkages to Indian Engineers, Managers and Scientists with their counterparts in other countries and with international organizations, to establish a Technical database, technological developments and to provide information services to the professionals as well as Introduction of Latest Technologies in the country.

ABOUT ERDA

Electrical Research and Development Association (ERDA), a not-for-profit professional organization, was established in 1974 and registered under the Societies Act and Public Trust formed under the Charity Commissioner of Maharashtra, was promoted by the electrical industries and some utilities with support from the Government of India through CSIR and grant given by the Government of Gujarat.

ERDA is a premier applied research organization of the nation providing services to the Power Sector in three technical areas of “Testing & Evaluation”, “Field Services”, and “R&D and Expert Services” for more than 50 years. ERDA provides services like Type, Developmental, Special and Certification Testing of Electrical Products / Material / Equipment as per national and international standards, Calibration, R & D, Consultancy, Third Party Inspection, Material Identification / Characterization & Indigenization, Failure Investigation, NDT and RLA of process & power plants, Energy audit, Condition monitoring of Electrical Equipment, GPS – based survey and Energy accounting, Installation Audit.

These services are provided through its 28 state-of-the-art centres located at its head office in Vadodara and three regional laboratories located at ERDA (West) – Navi Mumbai, ERDA (North) – Gurgaon and ERDA (South) – Rajahmundry.

ABOUT 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.

WORKSHOP SCHEDULE

Date	Time	Topics Covered
25-04-2024	10:00 – 10:30	Welcome & Introduction
	10:30 – 11:30	Basic High Voltage Engineering, Methods of Protection against Over Voltage in Power System
	11:30 – 11:45	Tea Break
	11:45 – 13:00	PD test on Power Transformer
	13:00 – 14:00	Lunch Break
	14:00 – 15:00	Measurement & Interpretation Techniques of Partial Discharges
	15:00 – 15:30	Tea Break
	15:30 – 16:30	Gas Insulated Switchgears
26-04-2024	16:30 – 17:00	Summary and Question - Answer
	10:00 – 11:30	Measurement & Interpretation Techniques for PD Test on GIS
	11:30 – 11:45	Tea Break
	11:45 – 13:00	Rotating Machines
	13:00 – 14:00	Lunch Break
	14:00 – 15:00	Demonstration of Tests: Partial Discharges Measurement at ERDA Laboratory
	15:00 – 15:30	Tea Break
	15:30 – 16:30	ERDA Laboratory Visit
16:30 – 17:00	Summary and Question- Answer	

FACULTY

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

REGISTRATION FEES

- Regular Participation at Rs. 12,000/- per participant + 18% GST shall be charged extra.
- Discounted fee for Members of CBIP/ ERDA/ SPE, per participant, i.e., Rs. 10,800/- per participant + 18% GST extra.
- Group Discount facility would be available for more than 4 no. of participants from same organization, i.e.,
 - Rs. 10,000/- per participant (Non- Member Organizations) + 18% GST extra.
 - Rs. 9,000/- per participant (Member Organizations) + 18% GST extra.

The registration fee will cover the professional fees; working lunch; Tea/ coffee/ snacks and transportation facility from hotel to testing facility during the course.

Participants will be provided with training material/ tools & kits and each Candidate shall be provided a Certificate at the end of the Workshop Programme.

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

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.

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 FORM

(To be filled in block letters preferably)

1. Name : _____
2. Position : _____
3. Organization : _____
4. Address : _____
5. Phone : _____ Fax No. _____
6. Email : _____

Date _____

Signature _____

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

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Nodal Officer:

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***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.