

15<sup>th</sup> National Conference on

# Safety, Earthing and Lightning Protection System

(Under the aegis of CIGRE NSC B3 on Substations & Electrical Installation)

**Date: 15<sup>th</sup> – 16<sup>th</sup> January 2026**

**Venue: CBIP Conference Hall, New Delhi**



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## INTRODUCTION

The Central Board of Irrigation & Power in association with CIGRE-India and International Association on Electricity Generation, Transmission and Distribution (Afro-Asian Region) is organizing 15<sup>th</sup> National Conference on “Safety, Earthing and Lightning Protection System” on 15th & 16th January 2026 at CBIP Conference Hall, Chanakyapuri, New Delhi - 21.

## AIMS AND OBJECTIVES

CBIP has been organizing conferences on earthing of electric power stations every year now. The last one was held in February 2024. CBIP has now again taken initiative to organize this National Conference on “**Safety, Earthing and Lightning Protection System**” on 15th & 16th January 2026 with the aim to update the knowledge of professionals about the current techniques in Earthing Systems & advancements in Lightning Protection Systems and to discuss the various problems related thereto. Proceedings of this conference will also help the professionals in improving the performance and reliability of electrical power system, which is the need of the hour.

It is pertinent to mention that Earthing & Lightning Protection plays an important role in proper operation of generation, transmission and distribution systems. The function of earthing in an electric power system is to (i) maintain the potential of current carrying as well as non-current carrying parts of equipment, apparatus and appliances connected to the system, and (ii) to ensure safety of equipment and personnel and correct operation of protective devices during earth faults. Earthing also provides safety during lightning strikes on equipment or structures and on occurrence of induced voltages and currents on equipments of an electric system. A proper earthing system provides easy and shortest path to the flow of earth fault current without adversely affecting the continuity of service. It also ensures that a person present in the station area is not exposed to danger of electric shock.

The efficacy of an earthing system depends on various factors like resistivity of general mass of earth in and around the area where earth grid is buried and also that of surface layer of soil, duration and magnitude of fault current and grid current, shock duration, the maximum safe current that a human body can tolerate and the permissible values of dangerous voltages that shall arise due to the flow of grid current. Earthing of fence is another issue of importance.

The function of a lightning protection system is to protect structures from fire or mechanical destruction and to prevent that persons in buildings from injury or fatal accident. It protects the internal electrical components of a building, helping to prevent fires or electrocution.

## TOPICS

Various topics of interest have been identified for deliberation during this conference.

- Types of earthing and design parameters
- Latest International concepts of Earthing
- New concepts of Earthing – SIGMA Earth; dissipating faults of variable frequencies
- IEEE 80 2000 (Grounding substation earthing)
- Earthing of generating plants, modern electric grid substations, transmission lines, distribution lines, generating plants, and load distribution centers
- Use of computer software for earthing design
- Current for design of earthing system
- Earthing of electronic equipment in power stations
- Role of earthing in protection of installations and equipment from lightning
- Soil resistivity measurements and interpretation
- Requirements of earthing in hilly and corrosion prone areas
- Testing, installation and inspection & maintenance together with their periodicity
- Functions of an external & internal Lightning Protection System.
- Lightning Protection System – Past, Present & Future.
- Advancements in the Lightning Protection System.
- Importance of Lightning Protection System.
- Designing of Lightning Protection System.
- Case studies.

## CALL FOR PAPERS

Eminent experts from State Utilities, Manufacturing organizations and Academic field have been invited to deliver expert lectures during the conference. The Professionals Experts who desire to participate by delivering lectures on different aspects of Earthing including case studies are requested to furnish the write-ups to reach CBIP office latest by 1st January 2026.

## DATES AND VENUE

The Conference will be held on 15th & 16th January 2026 in the CBIP Conference Hall, Malcha Marg, Chanakyapuri, New Delhi-21. The conference timing will be 9.30 am to 5.00 pm on both the days.

## WHO SHOULD ATTEND

The conference will be of special interest to:

- Planners, Independent power producers, Operators, Consultants, Electrical Contractors
- Researchers / Academicians, Manufacturers, Power Utilities / Corporations, State Govt. / SEBs, etc.

## REGISTRATION FEE

All those who wish to participate in the conference are expected to register in advance by sending the details through email to the organizers along with payment of registration fee as indicated under:

1. Non – Member fee is Rs. 12,000/- per participant
2. Discounted fee for Members of CBIP/CIGRE-India is Rs. 10,000/- per participant
3. Special Discounted fee for Students is Rs. 2,500/- per student

**GST : 18% extra. GST No. : 07AAAJC0237F1ZU**

**Note :** Participating Organisations/ Individuals are required to send the GST Number and full address of their organisation to CBIP secretariat in advance for preparation of Tax Invoice for arranging payment of Registration Fee by them. The conference is non-residential.

The registration fees includes, working lunch, tea during the Conference, a copy of the conference proceedings. The participants will have to make their own arrangements for boarding and lodging, transport etc. at New Delhi.

## SPONSORSHIP OPPORTUNITIES

The conference 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 conference 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 :

| Platinum Sponsor :<br>Rs. 3,00,000/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Gold Sponsor :<br>Rs. 2,00,000/-                                                                                                                                                                                                                                                                                                                                                                       | Silver sponsor :<br>Rs. 1,00,000/-                                                                                                                                                         |
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| <ul style="list-style-type: none"><li>• 10 delegate passes for participation in the Conference</li><li>• Speaking Opportunity</li><li>• Invitation to the key person of the organization as special invitee during Inaugural session</li><li>• Circulation of Company Literature during the event</li><li>• Company logo on main backdrop and other banners</li><li>• Complimentary Advertisement in the Key Journal Published immediately after the event covering report of the event.</li><li>• Announcement -Thanking sponsor</li></ul> | <ul style="list-style-type: none"><li>• 05 delegate passes for participation in the Conference</li><li>• Company logo on main backdrop and other banners</li><li>• Circulation of Company Literature during the event</li><li>• Announcement - Thanking sponsor</li><li>• Complimentary Advertisement in the Key Journal Published immediately after the event covering report of the event.</li></ul> | <ul style="list-style-type: none"><li>• 03 delegate passes for participation in the Conference</li><li>• Company logo on main Backdrop</li><li>• Announcement – Thanking sponsor</li></ul> |

## PAYMENTS

All payments should be made by NEFT/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, 209-214, Kailash Building, 26 Kasturba Gandhi Marg, New Delhi 110 001

Saving Bank Account No. : 00031110004411

Swift Code: HDFCINBBDEL

IFSC: HDFC 0000003

MICR Code: 110240001

## REGISTRATION FORM

(To be filled in block letters preferably)

Delegate \_\_\_\_\_  
(Surname) (First Name)

Designation \_\_\_\_\_

Name of Organisation \_\_\_\_\_

Organisation GST No. \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ PIN \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Dated \_\_\_\_\_ Signature \_\_\_\_\_

*Registration Form, duly filled in, is to be mailed to the following address:*

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

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

**Contact Person : Shri A.K. Srivastava**, *Advisor, CBIP* M : 9650998042

**Shri S.K. Batra**, *Consultant, CBIP* – M : 9811943812, E-mail : batra@cbip.org

Central Board of Irrigation & Power (CBIP), Malcha Marg, Chanakyapuri, New Delhi -110 021

Phone: 011-26115984/ 26116567; E-mail: cbip@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.