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IEEE PES-IAS Delhi Chapter
Organized by

CENTRAL BOARD OF IRRIGATION AND POWER

National Seminar on

Design of Earthing Systems

December 18 – 19, 2003

Hotel Le-Meridien, Windsor Place, New Delhi

ANNOUNCEMENT

The Central Board of Irrigation and Power is organizing a National Seminar on "Design of Earthing Systems" on 18-19 December 2003 at Hotel Le-Meridien, Windsor Place, New Delhi. It has been technically sponsored by the IEEE PES-IAS Delhi Chapter.

INTRODUCTION

Purpose of earthing in an electric power system is to limit, with respect to the general mass of earth, the potential of current carrying conductors, which are part of the equipment, and non-current carrying metal works, associated with the equipment, apparatus and appliances connected to the system.

Earthing plays an important role in generation, transmission and distribution for safe and proper operation of electric system. As is well known the earthing systems are intended to protect equipment and personnel involved with all electrical equipment from the dangerous over-voltages and leakages. With the power systems becoming more and more complex the fault levels in the system have also gone up. This has resulted in bestowing greater attention to the design of earthing systems. Added to this, the technology development from time to time and better understanding of the various parameters involved in the design of the earthing systems have lent greater importance to revise earlier considerations and concepts.

The objective of designing safe grounding system is to provide easy and shortest path to the flow of fault current without exceeding the operation and equipment limits and adversely affecting the continuity of service. It is also to ensure that a person present in the station yard is not exposed to danger of electric shock.

An effective earthing system depends on various factors like resistivity of surface layer of soil, duration and magnitude of fault current, maximum safe current that a human body can tolerate and the permissible earth potential rise that may take place due to the fault current.

To address various issues involved in the earthing systems the Central Board of Irrigation and Power is organizing a National Seminar on "Design of Earthing Systems" on 18-19 December 2003 at Hotel Le-

Meridien, Windsor Place, New Delhi. Various topics of interest have been identified for deliberation during this period.

TOPICS

- Earthing and its necessity
- Earthing and IE rules
- Types of earthing and design parameters and use of computer software
- Role of earthing in protection of installations and equipment from lightning
- Earthing of transmission lines, distribution lines, substations, generating plants and at distribution load point
- Soil resistivity and earthing
- Requirements for earthing in hilly and corrosion prone area, etc.
- Testing and inspection with its periodicity and maintenance thereof
- Case studies.

WHO SHOULD ATTEND

Senior officers of power utilities/corporations, state govts / SEB's, nodal agencies, energy planners, private entrepreneurs, manufacturers, development consultants, research/academic institutions, construction companies and financial institutions, etc.

CALL FOR PAPERS

Full length papers are invited in English on the subjects mentioned above. The paper should not normally exceed 4000 words on 10 typed A-4 size pages including text, figures, photographs, tables, etc. and should be prepared in conformity with the guidelines for preparation of papers.

It will be understood as conditions of acceptance of papers that the author or one of the authors in the case of multiple authors will attend the seminar for interaction with the participants.

Guidelines for preparation of papers

The full text of paper (three copies - one original and two photocopies) prepared on Standard Bond Paper (good quality paper) of A4 (210 mm x 297 mm) size, after having been scrutinized and accepted, will be printed as received by the offset process. Therefore, the text of the paper must conform strictly to the following requirements and be free from errors.

- | | |
|--|---|
| Top/bottom margin | : 25 mm (Top margin on first page 35 mm) |
| Left/right margin | : 25 mm |
| Typing area | : 160 mm x 230 mm single space, single column |
| Total pages | : 8-10 pages including figures, tables, photographs, etc., if any |
| Font type | : Helvetica/Times Roman |
| Title | : 14 point BOLD CAPITALS |
| Author's name | : 10 point Bold Upper-Lower (Do not prefix name with Mr./Ms./Dr./Prof.) |
| Affiliation
(designation,
organization and
place) | : 10 point italics |
| Main headings | : 10 point BOLD CAPITALS |
| Sub-headings | : 10 point Bold Upper-Lower |
| Text | : 10 point normal |
| Print | : Laser print or letter quality. Dot-matrix is NOT acceptable. |

The paper title, name(s) of author(s), and affiliation, center justified, should be typed in a space of 50 mm from the top margin on the first page. The paper should begin with a synopsis of not more than 200 words describing the aims of the work, methods, results obtained and conclusions.

Type the headings, sub-headings and paragraphs aligned with the left-hand margin. Both-side justified text is preferred. Use double space between paragraphs, and between section headings/sub-headings and paragraphs. Do not number paragraphs, but number sectional and sub-sectional headings except synopsis, in conformity with established convention.

An IBM compatible computer floppy (size 3½") in conformity with the above is also required to be sent. The floppy should be prepared by using MS Word (suitable for Windows).

Figures should be drawn in black Indian ink on translucent paper or acetate material (Gateway Tissue) with lettering of appropriate size using stencils. The figures should be placed nearest to the first reference in the text. Photographs on glossy paper may be included, if absolutely necessary.

Papers can be sent by e-mail also, together with figures, graphs and charts, if any.

CUT OFF DATE

Last date for submission of paper	31 st October 2003
Communication of acceptance of paper	14 th November 2003

DATES AND VENUE

The seminar will be held on 18-19 December 2003 at Hotel Le-Meridien, Windsor Place, New Delhi.

TENTATIVE PROGRAMME

Registration for the seminar will start at 0830 hrs. on 18th December 2003 at the venue of the seminar. The technical sessions will be from 0930 to 1730 hrs on both the days with lunch-break and two tea-breaks.

REGISTRATION

The registration fee payable by the delegates including authors of papers, for participation in the seminar is as follows:

Fee per delegate	Rs. 3500
In case of minimum 4 nominations	Rs. 3000 per delegate from same organization

The registration fee includes registration kit, one copy of proceedings, working lunch and tea only in between the sessions. The delegates shall have to make their own arrangements for boarding, lodging and transport. Spot registration facilities to a limited extent will be available.

Cancellation of Registration / Non Attendance

Fee once paid will not be refunded normally. In exceptional cases, if a registrant is unable to attend the event and claims refund by 18 November 2003, fee will be refunded after deducting an administrative charges of 20 per cent. After this date, no request for refund will be entertained.

However, the registered delegate, who had paid the registration fee, but could not attend the event and had not claimed refund, would be sent a complete set of proceedings, and other related publications issued on the occasion of the event.

PAYMENT AND CORRESPONDENCE

All payments for the seminar, i.e., for registration fee, sponsorship and advertisement, etc., may be made through Demand Draft in favor of "Central Board of Irrigation and Power", payable at New Delhi.

Name of the seminar should be mentioned under subject in all the correspondence related to this seminar.

CALL FOR ADVERTISEMENTS

A limited space for insertion of advertisements of various organizations in the proceeding volume is being provided. The interested organizations are required to send the advertisement material, i.e., art work/negative/positive for colour or black and white advertisement along with payment as detailed below:

Positions	Amount (Rs.)
Back cover page	10,000
Second and third cover page	8,000
First opening page	6,000
Full page (22 cm x 15 cm)	5,000

For printing in colour, 25% extra per colour will be chargeable.

SPONSORSHIP OPPORTUNITIES

The seminar provides an effective opportunity for sponsoring companies to promote their products/services to a focused audience, besides networking with utility engineers during tea/coffee and lunch intervals. Sponsors are assured of full visibility with printing of their names on proceedings, banners and other publicity material related to seminar and will have the privilege of distribution of their product's pamphlets/catalogues during the seminar. Sponsors will also have the privilege of sending delegates exempted from payment of registration fee as indicated hereunder:

Category	Fee	Delegates free	Free advertorial in the seminar proceedings
Co-organizer	Rs. 150,000	5	5 pages
Sponsor	Rs. 100,000	3	3 pages
Cosponsor	Rs. 50,000	2	2 pages
Supporter	Rs. 30,000	1	1 page

OFFICIAL LANGUAGE

The official language of the seminar is English.

ADDRESS FOR CORRESPONDENCE

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Website : www.cbip.org; www.ewh.ieee.org/r10/delhi/des-ns.pdf

**National Seminar
Design of Earthing Systems**

**December 18-19, 2003
Hotel Le-Meridien, Windsor Place, New Delhi**

REGISTRATION FORM

(Fill the form in block letters or with typewriter)

1. Name in Full (*Prof./Dr./Mr./Ms.*)

_____ (Surname) _____ (First Name)

2. Designation

3. Name and address of organization

4. Address of correspondence

Phone _____

Fax _____

E-mail _____

5. Bank Draft No. _____ for Rs. _____ towards registration fee in favor of "Central Board of Irrigation and Power" payable at New Delhi is enclosed.

Dated _____

Signature _____