

Operation & Maintenance of Transformers and Substations

One Day Workshop

At Hotel Le Meredien, R.B.M. Road, Pune, on 6th November 2004 - 9.00 a.m. to 5.30 p.m.

Jointly organised by



Institution of Electrical & Electronics Engineers

PES / IAS Chapter, Bombay Section, Pune Subsection



Indian Electrical & Electronics Manufacturers' Association

Your Link to Electricity

CONTEXT

Substations and Transformers form the vital link between consumers and utilities. The link influences voltage variations, transients, interruptions and long duration shutdown or failures and thus decides the reliability and quality of power supply.

Many of the failures of substations and transformers can be attributed to poor maintenance. The maintenance of transformers and other substation equipment is a difficult and involved task. It is utmost important to systematize the maintenance by better understanding the behavior of each component, using modern predictive techniques and optimizing the schedules.

OBJECTIVES

The workshop is designed to review the operational and maintenance requirements of transformers and substations, discuss new technologies involved and share the experiences from the field. The workshop will also provide an opportunity to make observations about individual experiences and interact with the experts.

The workshop will be useful to operation / maintenance engineers, planners, supervisors, consultants and contractors, who are associated with the operation, maintenance and / or erection of transformers and substations.

PROGRAMME

The programme will consist of lectures and presentations by the experts and discussions on the following topics.

- ◆ Conventional and new types of transformers.
- ◆ Optimum design and layout of substations
- ◆ Substation automation, use of intelligent electronic devices, data logging, performance recording.
- ◆ Preventive, predictive and failure maintenance of transformers and substations.

- ◆ Earthing provisions in IS and electricity rules, Tests and Standards, Routine checks.
- ◆ Bushings and insulation: Types, class, standards, tests, cleaning and maintenance.
- ◆ Transformer Oil: specifications, standards, initial and in operation tests, reconditioning, reclamation.
- ◆ Loading, temperature rise, overload protection, life cycle.
- ◆ Tap-changer: Types, operation, maintenance requirements of contacts, oil, control and accessories.
- ◆ Maintenance of protective equipment, measuring equipment, panels and other accessories.

FACULTY

The faculty for the programme will include eminent experts drawn from the Industry, SEBs and other major users of the equipment.

SPONSORSHIP OPPORTUNITIES

The workshop organising Committee welcomes Sponsorship from the industry. Sponsorship Fees are Rs. 10,000/-, which includes two free delegates and distribution of product pamphlets to the participants.

REGISTRATION

The programme fee per participant is Rs. 2,500/- (Rupees Two Thousand Five Hundred Only) which includes Programme kit with study material, lunch and tea/snacks. Participants, who are members of IEEE & IEEMA will pay Rs. 2,000/- only. The fee is payable by a crossed demand draft / cheque drawn in favour of "IEEMA SAWTEC" payable at Mumbai.

Registration is **limited to 40 participants** on first-come-first-serve basis.

For registration contact:

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Forthcoming IEEE / IEEMA joint Workshops in the year 2004

We are glad to announce following one day workshops, planned to be organized from August 2004 till December 2004: Fees per delegate for participation in any one of the workshops is Rs. 2,500/- (Rs. 2,000/- for IEEMA/IEEE members).

Topic	Date in year 2004	Venue
Operation and Maintenance of Power Capacitors	October 9	Le Meredien, Pune
Operation and Maintenance of Transformers and Substations	November 6	Le Meredien, Pune
Operation and Maintenance of L.T & H.T.Switchgear	December 4	Le Meredien, Pune