



# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)

Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



## POWER & ENERGY DIVISION

### *Continuing Professional Development Programme on* **Gas Insulated Substations – Design features, Construction, Testing, Operation and Maintenance**

24 – 26 September, 2019

#### GAS INSULATED SUBSTATION



(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

**Centre for Promotion of Professional Excellence**

## **INTRODUCTION**

With growing urbanization and growth of cities, there is rapid and concentrated load growth in cities especially in the crowded commercial centers with high rise buildings. Paucity of space to construct conventional substations is a main constraint since availability of space is scarce besides being very costly. GIS substations on the contrary need very less space compared to conventional substations. So, in these areas even the basements of the buildings can be planned to build new GIS substations, to cater these urban loads since Gas Insulated Substations are the ideal options for these situations.

With the developments in SF6 Gas insulated Switchgear we are able to build compact Substations.

## **OBJECTIVE**

The scope of the course is to provide an insight into the selection of GIS switch gear and familiarize the participants with the various intricacies related to construction, Operation and maintenance of the GIS Substations.

## **COURSE COVERAGE**

- Introduction to GIS and GIS Concepts
- Design Features of GIS
- GIS Components
- Installation and Commissioning of GIS
- Evaluation of Standards, Type Testing and Site Testing
- Operation and Maintenance of GIS
- Condition Monitoring of GIS
- Very fast Transient over Voltage Phenomena (VFTO) in GIS
- SF6 Gas Insulated Switchgear
- Gas Handling Procedures and Safety Issues
- Field Visit to GIS

## **METHODOLOGY**

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The classrooms are provided with latest audio – visual teaching aids. The ambience in the campus and classrooms facilitate in effective learning by participants.

## **FACULTY**

Apart from Core Internal Faculty, Consulting Firms, Government Organisations, Manufacturing, Academic and Research Institutions etc. will share the sessions.

## **TARGET PARTICIPANTS**

Power Engineers and Managers from Power Utilities both Private and Public, Generation and Transmission Corporations, Organizations connected with Planning, Research Development and all Distribution Companies.

## **PROGRAMME VENUE, DATES & TIMINGS**

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, Telangana, India.

## **DATES**

**24 – 26 September, 2019**

## **TIMINGS**

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

## **COURSE DIRECTOR**

**R V Chalapathi**

Sr. Faculty - Power & Energy Division, ESCI

## **COURSE FEE**

**Residential Fee** is Rs.15,000/- (Residential) per participant. Fee includes Course Material, Course Kit, and Twin-sharing / Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

## **DISCOUNTS**

**Non-Residential Fee:** 10% discount on course fee is allowed for non-residential participants.

**Group Discount:** 10% discount for three or more participants if sponsored by the same organization.

**(All discounts are applicable only if fee is received at ESCI a week before the commencement of the programme)**

**GST @18% (as applicable)** is to be paid extra over and above the training fee. ESCI's **Provisional ID No. 36AAATT3439Q1ZV, PAN Card No. AAATT3439Q.**

The course fee is to be paid in favour of **“IE (I) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT) to ESCI – SB A/c No. 33705165550** with The SBI, Manikonda Branch, Gachi Bowli, Hyderabad – 500 032 by **NEFT / RTGS / IFSC Code No: SBIN0011076 – MICR No: 500002107.** While using EFT method of payment, please ensure to communicate us your company name, ESCI invoice reference and programme title.

Online registration is available on ESCI website. To register, manually please send your nominations (**10 days** prior to date of commencement of the programme) giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

### **Head, Power & Energy Division**

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone 040– 66304170 - 4175, Fax: 040 – 23000336, 66304103

Email:pe.esci@gmail.com / pe@escihyd.org; Website: www.escihyd.org

**CERTIFICATE:** A certificate of participation will be awarded to each participant on conclusion of the programme.

## **GENERAL INSTRUCTIONS**

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab driver.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00 hrs a day prior to the commencement & check out at 12:00 hrs a day after completion of the programme)
- Overstay charges of @ Rs.990/- per day / per head including hospitality (Bed Tea / Coffee to Dinner) will be charged.
- Well developed Information Centre and Internet facilities are available to the participants free of cost.