

## Two Days Workshop on Selection, Installation & Maintenance of "LV & HV SURGE PROTECTION SYSTEMS"

**DATE:**  
21<sup>st</sup> & 22<sup>nd</sup> October 2013

**Venue:**  
**The Atria Hotel,**  
No 1, Palace Road, Bangalore - 560 001  
Tel: 080 22205205, Fax: 080 22256850

Organized by :



**INDIAN INSTITUTION OF PLANT ENGINEERS**  
(Karnataka Chapter)

147/6, Malleshwaram Arcade, II Floor, III Main,  
Margosa Road, Malleshwaram, Bangalore - 560 003.  
Ph.: 080-2346 2301, Mob.: 0-99165 33275  
E-Mail : seciipekc@gmail.com

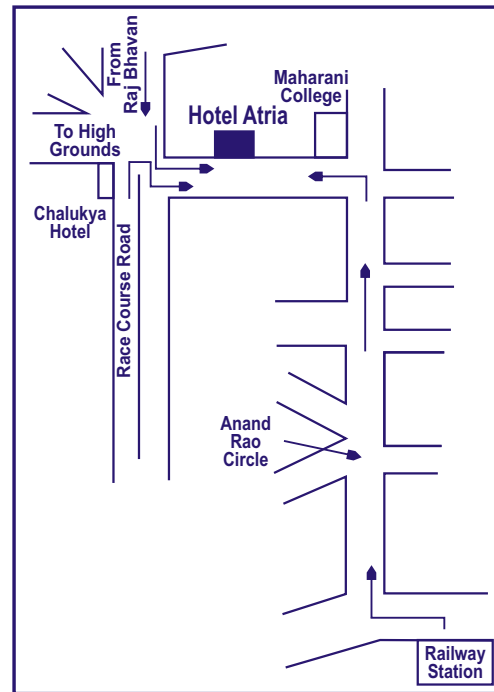
In association with



**POET CONSULTANTS PVT LTD**  
(Power Engineering & Technology Consultants)

G.R. Arcade, 338/A, Dr. Siddaiah Puranik Road, 3rd Stage,  
4th Block, Basaveshwara Nagar, Bangalore - 560079  
Tele/Fax : 080-23225333 / 23236820  
vijayan.m@poetconsultants.in [www.poetconsultants.in](http://www.poetconsultants.in)

**Conference Venue Location Map :**  
**Venue: The Atria Hotel,**  
No.1, Palace Road,  
Bangalore 560 001  
Tel: 080 22205205  
Fax: 080 22256850



**Distance from Rly. Station - 3 kms.**  
**From Airport - 35 Kms.**

### How to Register?

Please send your nomination in the Enrollment Form by E-mail / Post.  
You can also inform over Phone to the following

Mr. R.C. Shekar,  
Secretary, IPE: 09538997059  
Mr. Srinivasa,  
Executive Officer, IPE : 09916533275  
Mr. M. Vijayan,  
POET Consultants Pvt. Ltd.: 08971468674

### Delegate Fee:

₹ 7500/- per delegate + Service Tax 12.36% extra  
(Total Rs. 8427-00)

₹ 7000-00 plus Service Tax @ 12.36% for IPE  
Members (Both Individual & Institutional)

Demand Draft/ Cheque to be drawn in favour of  
"INDIAN INSTITUTION OF PLANT ENGINEERS"  
payable at Bangalore.

**Accommodation:** Outstation Participants will  
have to arrange their own accommodation.

### Call for Advertisements:

A limited space for insertion of Advertisement  
in the proceedings of the Workshop has been  
provided. The interested Organisations are  
requested to send their Advertisements well in  
advance along with payment as detailed below:  
Full Page (A4 Size) : Rs 5000-00

### All Correspondence to be addressed to:

**Mr. R.C. Shekar, Secretary**  
**INDIAN INSTITUTION OF PLANT ENGINEERS**  
(Karnataka Chapter)  
# 147/6, Malleshwaram Arcade, 2nd Floor,  
3rd Main, Margosa Road, Malleshwaram,  
Bangalore - 560 003.  
Ph: 09538997059, 09916533275  
Email: seciipekc@gmail.com

## Two Days Workshop on Selection, Installation & Maintenance of "LV & HV SURGE PROTECTION SYSTEMS"

**DATE:**  
21<sup>st</sup> & 22<sup>nd</sup> October 2013

**Venue:**  
**The Atria Hotel,**  
No 1, Palace Road, Bangalore - 560 001  
Tel: 080 22205205, Fax: 080 22256850

Organized by :



**INDIAN INSTITUTION OF PLANT ENGINEERS**  
(Karnataka Chapter)

147/6, Malleshwaram Arcade, II Floor, III Main,  
Margosa Road, Malleshwaram, Bangalore - 560 003.  
Ph.: 080-2346 2301, Mob.: 0-99165 33275  
E-Mail : seciipekc@gmail.com

In association with



**POET CONSULTANTS PVT LTD**  
(Power Engineering & Technology Consultants)

G.R. Arcade, 338/A, Dr. Siddaiah Puranik Road, 3rd Stage,  
4th Block, Basaveshwara Nagar, Bangalore - 560079  
Tele/Fax : 080-23225333 / 23236820  
vijayan.m@poetconsultants.in [www.poetconsultants.in](http://www.poetconsultants.in)

### About IPE (Karnataka Chapter)

Indian Institution of Plant Engineers (IPE) with its Head Quarters at Chennai has been engaged for over 40 years in professionalization of Plant Engineering, improving the performance and efficiency of Plant & Machinery of the Indian Industry and Service Sector. Through its wide network of Chapters, Centers and Divisions, it has been conducting technical, educational, industrial and training programs and taking up different activities for betterment of plant performance in the country.

The Karnataka Chapter, with its office in Bangalore was founded in the early 1970s. It has organized many national and international programs, workshops, training courses and exhibitions for plant and project engineers, managers, executives and for the technical personnel at different levels on contemporary subjects.

### Chairman Dr. Ing. B.V.A. Rao

Professor Emeritus (Mech),  
Chairman-National Design & Research Forum,  
Indian Institution of Plant Engineers (Karnataka) &  
Indian Montessori Centre.  
President, Hymamshu Jyothi Kala Peetha, Bangalore,

### Vice Chairman Dr. S.Seetharamu,

Addl. Director, Central Power Research Institute,  
Bangalore

### Secretary Mr. R. C. Shekar,

Mob: 09538997059, Tel: 080-2322 2330  
GM Manufacturing (Retd) Kennametal India Ltd.,  
Bangalore & Consultant

### About POET CONSULTANTS PVT LTD (PCPL).

POET (Power Engineering & Technology) Consultants Pvt Ltd., an ISO 9001 certified company established in 1997, provide Engineering Consultancy Services to all types of power projects viz., Thermal Power Plants, Hydro Power Plants, IC Engine Power Plants, Combined Cycle Power Plants, Co-Generation Power Plants, Non Conventional Energy Projects, Substations & Transmission Lines, Switchyards and also Industrial/ Infrastructure Projects. POET Consultants also undertake projects related to Power System Studies, Corporate Training, Electrical Safety, Project Management Activities, Review Consultancy, Energy Conservation, Plant Betterment, R & D and IT Enabled Services, Renovation & Modernisation, Remaining Life Assessment Studies, Failure Analysis, Pre-bid Engineering Services and Inspection Services. PCPL are pioneers in training their client's engineers in various facets of engineering and has been undertaking on site and off site training programs to meet their clients' requirements.

### Introduction to the Program Selection, Installation & Maintenance of "LV & HV SURGE PROTECTION SYSTEMS"

High Voltage Surge Protection is increasingly becoming important in view of the electric power networks becoming complex and with increasing transmission voltages. Gas Insulated Switchgear (GIS) is being used more and more and hence the selection of Lightning Arrestor is all the more important along with application of insulation co-ordination. Monitoring and maintenance of surge arrestors are equally important.

All types of organizations depend heavily on electric and electronic equipment for their smooth and efficient functioning. With the proliferation of electronic equipment, today's modern offices and homes also are full of complex and sensitive electronic equipment. In the course of operation, these equipments are subjected to various quality problems in power supply such as voltage and frequency fluctuations, momentary interruptions, black out, voltage/current surges etc. Of these, voltage/current surges can be most destructive. It can take as little as one surge lasting for a few microseconds to damage the devices. Protection against surges is thus absolutely essential to ensure life and performance of electrical and electronic equipment

Lightning protection of structures and application and coordination of associated Surge Protection Devices are becoming focal points of designers in view of increasing emphasis on safety and reliability requirements. The program focuses on the basis of selection, application, and maintenance of surge protection systems. It will take the participants through the causes for surges in the power supply system, need for surge protection, selection of the appropriate type of surge protection and the installation, operation and maintenance of different types of Surge protection Devices (SPD)

### Objectives To make participants aware of -

- Surge fundamentals: lightning, switching, faults, ferro-resonance, and others
- Damages and losses caused by surges and need for surge protection
- Assessment of risk due to lightning and taking decision regarding correct level of lightning protection
- Standards and Code of Practice applicable for surge protection
- Selection of the most appropriate type of surge protection: Shielding, lightning rods, arresters, Surge protection devices (SPD)
- Different arrester types: Station, transmission line, distribution, secondary,
- What the ratings of an arrester really mean.
- Fundamentals of Separation Distance

Fundamentals of insulation co-ordination  
Failures of Surge protection equipment: How to avoid, assess, and test in the field  
Trends in surge protection

### Organizations that will benefit from the program

Organizations such as Research Centers, Data Centers, Petro-chemicals, Refineries, Pharmaceuticals, Power plants, Cement plants, Sugar mills, Textile mills, all other Process & manufacturing industries, Hospitals, Airports and utilities, Mining Industry, Organizations where explosive materials are manufactured, stored etc.

### Who should attend?

Power System planners and Managers, Plant Managers, Maintenance Engineers/Supervisors, Facility Managers/Planners, Engineers responsible for equipment selection, Operation and Maintenance.

### Faculty

Mr. R. Venkatadri Managing Director,  
POET CONSULTANTS PVT. LTD  
Mr. M.Vijayan - Consultant, POET CONSULTANTS PVT. LTD  
The faculties have more than 40 years' experience in consultancy and electrical industry

There will also be faculties from the Industry to share their experience.

### Course co-coordinators Mr. M.Vijayan, Consultant

Poet Consultants Pvt Ltd  
Mob 8971468674, LL 080 23225333

Mr. R.CSekhar  
Secretary IPE Mob 09538997059

Date: 21st and 22nd October 2013  
Time: 0900 hrs. To 1700 hrs.

Venue: THE ATRIA HOTEL,  
No. 1, Palace Road, Bangalore 560 001

| Delegate Fee | ServiceTax @ 12.36% | Total     |
|--------------|---------------------|-----------|
| ₹ 7500-00    | ₹ 927-00            | ₹ 8427-00 |

₹ 7000-00 plus Service Tax @ 12.36% for IPE Members (Both Individual & Institutional)

IPE Service Tax No: AAAAI 1619NSD002  
IPE PAN Number: AAAAI1619N

The program, being a non-residential one, the fee covers only the course material, seminar proceedings, tea / coffee and lunch.

## ENROLMENT FORM

Date:

### Mr R.C.Shekar

Secretary.  
Indian Institution of Plant Engineers.  
(Karnataka Chapter)  
# 147/6, Malleshwaram Arcade, II Floor, III Main,  
Margosa Road, Malleshwaram,  
Bangalore - 560 003.  
Email: seciipekc@gmail.com,

Mr. R.C Shekar, Secretary: 9538997059  
Mr. Srinivasa, Executive Officer : 9916533275  
Mr. M.Vijayan, POET Consultants : 8971468674

Kindly enroll the following delegates for the **Two Days Workshop on Selection, Installation & Maintenance of "LV & HV SURGE PROTECTION SYSTEMS"** to be held on **21<sup>st</sup> & 22<sup>nd</sup> October 2013 at Atria Hotel, Bangalore 560 001.**

Name (in block letters) & Designation.

.....  
.....  
.....  
.....

Address of the Organization

.....  
.....  
.....  
.....

Phone:  
Email:

Enclosed is a Demand Draft/ Cheque no ..... dated. .... For Rs..... drawn in favour of "INDIAN INSTITUTION OF PLANT ENGINEERS" payable at Bangalore.

Date:

Signature.