

**Tutorial  
&  
7<sup>th</sup> International Conference on  
POWER SYSTEM PROTECTION  
AND AUTOMATION**

**CONFERENCE**

**Venue**

**SCOPE Auditorium, SCOPE Complex, Lodhi Road, New Delhi**

**16-17 February 2018**

**TUTORIAL**

**Venue**

**CBIP Conference Hall, Malcha Marg, New Delhi**

**15 February 2018**

*Organised by*

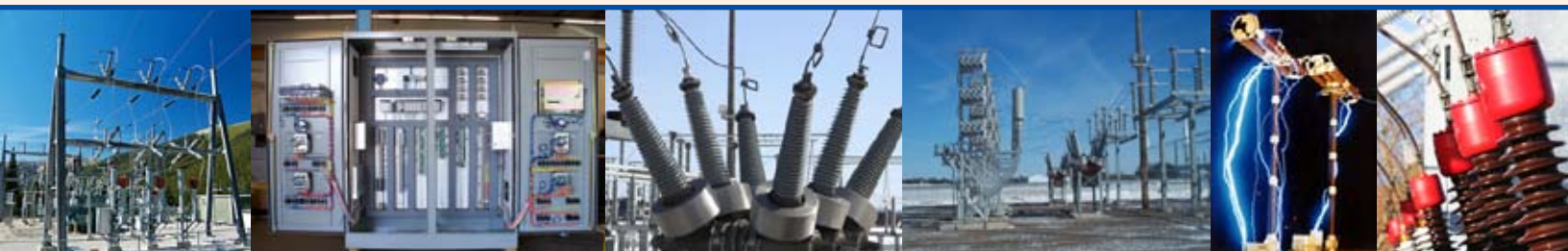


**CENTRAL BOARD OF IRRIGATION & POWER**

*In association with*



**CIGRE-INDIA**



## ANNOUNCEMENT

The Central Board of Irrigation & Power, in association with CIGRE India is organizing Tutorial, 7th International Conference and Exhibition on “Power System Protection and Automation”, 15-17 February 2018 at New Delhi, India.

## AIM OF THE CONFERENCE

CBIP has been organizing International Conferences on “Power System Protection and Automation” in every 3-4 years. The last one was held in February 2014 which was much appreciated by delegates who had come from over India and abroad. CBIP has now again taken initiative to organize this International Conference and Exhibition on “Power System Protection and Automation” on 15-17 February 2018 with the aim to update the knowledge of professionals about the current techniques and to discuss the various problems related thereto.

## SCOPE OF THE CONFERENCE

The topics of interest are given below:

### 1. Protection and Monitoring of Main Plants and Transmission Circuits

- (i) General Requirement of Protection system, Philosophy and Application of Primary and Back-up Protection  
Innovative Protection Schemes for Generators, Transformers Shunt reactors and Shunt capacitors
- (ii) Busbar Protections
- (iii) Protection of transmission lines and coordination of transmission system protection
- (iv) Protection of hybrid line /cable
- (v) Detection of High Resistance Earth Faults in Transmission System
- (vi) Protection & control of FACT devices and impact on protection system
- (vii) Impact of HVDC transmission system on existing protection system
- (viii) Adaptive Protection of Power System Elements, Basic Needs and Benefits

### 2. Conventional Instrument Transformers and Novel Sensors

- (i) Specifying Conventional Current and Voltage Transformer requirements for line and equipment protections.
- (ii) Applications of Optical Sensors for Digital Protection Relays and Metering
- (iii) Design Consideration of CT/PT and advantages of Optical CT/VT/Merging Unit

### 3. Substation Automation and Remote Control

- (i) Current and Future Trends of IT in Substation Control, Protection and Automation including network of future smart grid

- (ii) Guidelines for Specification and Evaluation of Substation Automation Projects based on IEC 61850
- (iii) Experiences and benefits with Substation Automation Projects based on IEC 61850
- (iv) Impact of process bus IEC 61850-9-2 on protection and automation
- (v) SAS Architecture and implementation of IEC 101 and IEC 104 communication protocols
- (vi) Acceptable functional integration in Substation protection & automation systems
- (vii) Life cycle management of protection & control system
- (viii) Cyber security issues with remote control from Remote LDC

### 4. Monitoring, Metering, Recording and Overall Power System Protection

- (i) System wide Protection Policies and Co-ordination Problems
- (ii) Disturbance Recording, Fault Location and Analysis
- (iii) Metering Management inside the Substation
- (iv) Impact of renewable energy sources and new generation on protection and automation of substations
- (v) Wide area monitoring, control and protection technologies including PMUs
- (vi) Performance of protection systems during stressed conditions

### 5. Asset and Information Management, Maintenance, Training and Education

- (i) Review of Performance of Protection and Control System through Analysis of Collected Data
- (ii) Digital communication for power system control and monitoring
- (iii) Diagnostic Testing, Maintenance and Setting of Numerical Relays and Control System
- (iv) Designing Appropriate Training and Educational Programs for Digital Protection and Electronic Control
- (v) Criteria for Refurbishment of Protection and Control System
- (vi) Innovations in Power System Simulators and Testing Techniques
- (vii) Basic Networking for Electrical Engineers, Networking Techniques and Methods used in Switchyard Automation System
- (viii) Innovations in asset management, tools and techniques  
Cyber Security : IT Security Vs Power Network Security – A Comparison

### 6. Case Studies on Protection Performance and Analysis

- (i) Faults in Generating Units, Transformers, Bus-bars and Shunt Reactors

- (ii) Transmission Line Faults, Unsuccessful High Speed Autoreclosures
- (iii) System Black-outs, Grid Collapses and System Restoration; Automation System Shutdown,
- (iv) Case History of Grid Failures in Developed World

## CALL FOR PAPERS

Authors who wish to contribute a paper related to the above mentioned topic are requested to send an abstract of 500-1000 words.

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

## CUT OFF DATE

All abstracts must reach by 31<sup>st</sup> December 2017.

Abstract should contain:

- A descriptive title
- The name(s) and affiliation(s) of the author(s)
- The address for correspondence (including e-mail, telephone and fax numbers)
- The text must include introduction (Objective), methods, results and conclusions

## TUTORIALS

To avail the benefit of presence of experts from India & abroad at the above conference, Tutorials are also being planned on 15 February 2018 at Conference Hall of Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi preceding this International Conference. Experts from Powergrid, Doble Engg., USA, Omicron, Austria, ABB, SEL & Megger are likely to depute experts as faculty during this tutorial.

## WHO SHOULD ATTEND

Professionals from of Power Utilities/Corporations, State Govt./SEBs, Nodal Agencies, Energy Planners, Private Entrepreneurs, Manufacturers, Development Consultants, Research/Academic Institutions, Construction Companies and Financial Institutions, etc.

## CALL FOR ADVERTISEMENTS

A limited space for insertion of advertisements in the Conference proceedings is available at the following rates:

Position	Charges for Colour Advertisements	
	SAARC countries (INR)	Other countries (US\$)
Back cover page	50,000	765
Second or third cover page	35,000	550
Full page (A4)	25,000	400

Note : Material required in Pdf format or Coreldraw file.

## DATES AND VENUE

**Tutorial – 15 February 2018** - CBIP Conference Hall, Malcha Marg, Chanakayapuri, New Delhi 110 021

**Conference – 16-17 February 2018** - SCOPE Auditorium, SCOPE Complex, Lodhi Road, New Delhi

## CLIMATE

The maximum temperature at Delhi in the second and third week of February ranges from 20-23°C and minimum temperature from 4-7°C. Relative humidity maximum 55-60% and minimum 12-14%.

## INDIA — THE HOST COUNTRY

India's ancient culture, rich heritage and living tradition of performing arts can provide conferences with quality. Its numerous art forms including folk dances, each with its own individual identity can be lively relaxation after hectic business sessions. It would set any participant on a new mission of discovery of India's sights and sounds.

## NEW DELHI - THE HOST CITY

The Capital City of modern India has behind it centuries of history, which has enriched its culture. Broad tree-lined avenues and vistas suddenly give in to narrow alleys of cobble stones - taking you to an age of kings, princes, valour and bravery. Small shops huddled together, groan under the burden of age; small "dhabas" (roadside restaurants) selling freshly prepared delicacies; a wonderful collection of curious, handicrafts, jewels and jewellery. All within a few metres of fast-food restaurants serving everything from pizzas and hamburgers to colas and lemonades; glitzy shopping plazas; air-conditioned designer boutiques. This reflects the true spirit of New Delhi. Delhi is one of the world's best shopping centers. From handicrafts and antiques to all modern utilities — Delhi's shopping centers offer you everything under the sun. Delhi has all the modern facilities for hosting Conferences. It has a number of good hotels, which offer the best of the two worlds - international luxury combined with oriental hospitality.

## REGISTRATION

The perspective participants and authors willing to attend or make presentation in the above conference may register themselves by sending the following details to CBIP alongwith the requisite fee as mentioned.

**Note:** GST will be chargeable 18% extra as applicable.

The registration fee covers the cost of registration kit, Conference proceedings and lunch & tea in-between technical sessions. The participants will have to make their own arrangements for travel, boarding and lodging.

## REGISTRATION FORM

Delegate Name..... Designation .....

Organisation.....

Address for Correspondence.....

..... Phone..... Fax..... Email .....

Willing to attend Tutorial..... and Conference ..... (Please tick)

Cheque at par/Bank Draft No. .... Dated ..... for INR/US\$.....

Drawn on ..... bank is enclosed.

### REGISTRATION FEE

S. No.	Event	Registration fee for the participants from India & other SAARC Countries (in INR)			Participants from other Countries (in US\$)
		General Participants	CBIP & CIGRE Members	Students	
1	Tutorial	6,000	5,000	1,000	100
2	Conference	12,000	10,000	2,500	300

### SPONSORSHIP & PRIVILEGES

The conference provides an 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. The details of Fee and privileges category wise are indicated hereunder:

Sl. No	Sponsorship Category	Fees		Privileges
		INR	US\$	
1	Platinum	5,00,000.00	8,000	<ul style="list-style-type: none"> <li>• Wide publicity as Platinum sponsor</li> <li>• Company logo on Backdrop and all publicity materials</li> <li>• Advertisement and two pages editorial in proceeding</li> <li>• 10 delegates exempted from Registration fee.</li> <li>• Distribution of brochures etc. to the delegates.</li> </ul>
2	Gold	3,00,000.00	5,000	<ul style="list-style-type: none"> <li>• Wide publicity as Gold sponsor</li> <li>• Company logo on Backdrop and on all publicity materials</li> <li>• Advertisement and one page editorial in proceeding</li> <li>• 05 delegates exempted from Registration fee.</li> <li>• Distribution of brochures etc. to the delegates</li> </ul>
3	Silver	1,00,000.00	1,600	<ul style="list-style-type: none"> <li>• Company logo on Backdrop as well as on all publicity materials for the event</li> <li>• 02 delegates exempted from Registration fee</li> </ul>

### MODE OF PAYMENT

All the payments for the event (registration fee, sponsorship etc. to be made by the following methods:

- Banker's cheque payable to : Central Board of Irrigation and Power, New Delhi
- Bank transfer : Bank charges if any are to be borne by the participants

**Beneficiary Name (Payee Name & address) : Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi - 21**

**PAN No. : AAAJC 0237F ; Service Tax Number : AAAJC 0237F ST001**

**Complete Bank Details : Bank Name: HDFC Bank ; Saving Bank Account Number : 00031110004411**

**Branch & Address: 209-214, Kailash Building, 26, Kasturba Gandhi Marg, New Delhi 110001;**

**Branch /RTG/NEFT IFSC: HDFC0000003 MICR Code: 110240001 Swift code: HDFCINBBDEL**

All the payments details for the event to be furnished along with the registration form and Name of the event should be mentioned under subject in all the correspondence relating to this event.

### For more details please contact Conference Secretariat

**Mr. V.K. Kanjlia, Secretary,** Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi-110021, India

**Contact person – Mr. S.K. Batra, Chief Manager (Tech.) (Mobile No. 9811943812)**

**Phone: +91-11-26115984/1294 Fax: 91 11 26116347 E-mail : batra@cbip.org; cbip@cbip.org Website: www.cbip.org**

