

International practices
on usage of insulators in EHV/UHV
transmission system



Conference
November 12, 2018
New Delhi

Information Bulletin



organized by



sponsored by



GLOBAL INSULATOR GROUP

Announcement

The Central Board of Irrigation & Power (CBIP) and CIGRE India jointly with Global Insulator Group (GIG), Russia & SMARTEC, an International Consulting Organization in India are organizing this Conference on **'International Practices on Usage of Insulators in EHV/UHV Transmission System'** on 12th November 2018 at Hotel Le Meridien, New Delhi.

Aim of the Conference

India is the 3rd largest energy consumer in the world and consumption is poised to grow at a rapid pace to exceed the World average by 2040. Transmission Industry in India has played a major role in establishing National Grid i.e. **One Nation One Frequency One Grid**. This has also set up a vibrant Electricity Market benefitting the common consumer to have affordable power. In the recent years, the transmission congestion has reduced considerably, one of the reasons being significant addition of interregional transmission capacity and total transfer capacity, allowing smooth power flow across regions/country. Overall investment in power sector across generation, transmission and distribution is likely to be to the tune of USD 250 Billion over the next decade. The thrust on electrification of all the households is further pushing the power demand along with focus on green energy and cross border interconnections.

Energy resources and load centers are wide spread across the country and mostly located away from load centers. Considering the gigantic capacity addition program with renewable energy resources as well as conventional generation and to ensure reliable delivery of most perishable commodity to the end consumers, development of high capacity transmission corridor as well as flexible transmission & distribution system along with Smart Grid Solutions are essential.

With the development of very high capacity transmission corridor to optimise the Right of Way requirement such as 765kV D/C E UHV AC, +/- 800/1100 kV UHV DC & 1200 kV UHV AC, 400 kV EHV AC Multi Circuit having 4 Circuits in Tower, the reliability of the transmission system is of paramount importance. Any outage of critical transmission line would result in outage of electricity of a large area resulting inconvenience to the people and huge financial and industrial loss. Thus, the reliability of transmission system needs to be built at every stage from the preparation of technical specification, design & engineering, manufacturing, quality of raw material, testing, installation as well as operation & maintenance stage of the project. Transmission Lines do have very long life over 50-60 years, thus selection all item/component to be incorporated in such system is very critical to have maximum reliability & minimum maintainability for such a long life. Large scale/total replacement of any item during the life of the asset may be cumbersome and sometimes may be difficult and would be uneconomical. Only fragile component in a transmission line is the insulators. The insulation management of a transmission line is the key element on reliability & maintainability. This determines the life of the assets. Though the cost of insulating system of a transmission system is small i.e. about 5% of the entire transmission construction cost but is the most critical component in a transmission system in order to provide reliability and longevity of the system.

Keeping in view the importance of the subject and also to disseminate the development being taken in the recent past by the various organization in the World on the transmission technology particularly insulators keeping in view increase in pollution, the Central Board of Irrigation & Power (CBIP) and CIGRE India jointly with Global Insulator Group (GIG) and SMARTEC are organizing this Conference on **"International Practices on Usage of Insulators in EHV/UHV Transmission System"** on 12th November 2018.

The broad objective for the conference is to provide a platform to debate and discuss the global practices, issues /challenges & mitigation measures being adopted in the usage of insulators. The program will focus on current advances in the operation, manufacturing and application of various types of insulators in EHV/UHV transmission systems.

Topics

This conference will cover comprehensively all areas; technical specification, design & engineering, manufacturing, quality of material, testing, installation as well as operation & maintenance of Insulators including international practices.

International Experts from USA, CANADA, RUSSIA, EUROPE and INDIA shall present various Papers in the following topics/area:

1. Insulators selection for operation in severe contamination conditions
2. Performance comparison of line type insulation
3. Monitoring of puncture and flashover in Transmission Line
4. Loss reduction on transmission lines through the extension of design of disc insulators
5. Pollution performance on different insulators
6. International Practices on Usage of Insulators in EHV/UHV Transmission System
7. Performances of Insulators with Silicon coating

Date AND Venue

The Conference will be held on **12th November 2018** (Monday) at Hotel **Le Meridien, Windsor Place, New Delhi**. The Conference timings will be **09.30 AM to 5.30 PM**. The registration will start at 9.00 AM on 12th November 2018.

Who Should Attend?

The Conference will be of special interest to Central Govt. / State Govt. SEBs, Power Utilities/Corporations, Transmission Utilities, Regulators, Researchers/Academicians, Manufacturers, Planners, Operators, Consultants, Experts, EPC Contractors of Transmission line & substations, etc.

Registration Fee

There will be no Registration Fee for participation in the Conference. However, registration will be through invitation and on first come first served basis. Spot registration facilities will be available but only to a limited extent. The participants desirous of attending the Conference are required to fill the registration Form.

Official Language

The official language of the Conference is English

Conference on
International Practices on Usage of Insulators in EHV/UHV
Transmission System

12th November 2018, Hotel Le Meridien, New Delhi

REGISTRATION FORM

(To be filled in block letters preferably)

Delegate _____
(Surname) (First Name)

Designation _____

Name of Organization _____

Mailing Address _____

City _____

State _____ PIN _____

Phone _____ Fax _____

E-mail _____

Dated _____ Signature _____

CONFERENCE SECRETARIAT

Shri V.K. Kanjlia, *Secretary*

Shri P.P. Wahi, *Director*

Central Board of Irrigation and Power

Malcha Marg, Chanakyapuri, New Delhi 110 021, India

Tel : 91-11-26115984/26116567 Fax: 91-11-26116347

Registration Form, duly filled in, is to be mailed to the following address:

Contact Person : Shri S.K. Batra, Chief Manager (Tech.), M: 9811943812

Email : batra@cbip.org; cbip.batra@yahoo.com; Web-site: <http://www.cbip.org>

Note:

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.