INTERNATIONAL CONFERENCE
INNOVATIONS & BEST PRACTICES IN TRANSMISSION SYSTEMS

11-12 July, 2013

Venue: Jacaranda Hall, India Habitat Centre, New Delhi
INTRODUCTION & ANNOUNCEMENT
The increasing demand for power requires construction of new power plants and additional transmission lines. Planning and erecting new transmission lines have become a major problem in many countries, not only because of environmental impacts but also because of limited space in densely populated areas. Thus new technologies have to be developed and introduced. In last few decades many concepts have emerged in overhead power line designs mainly considering growing environmental constraints despite increase in power demand. One of the concerns is the Right of Way or area of the land that is allocated for transmission line which depends on voltage and technical specification of the line. New types of support structures for a transmission line are to be developed in order to reduce the dimension of the line, both in the horizontal and vertical directions. Thus technology of compact transmission lines is being increasingly adopted by power industry to effectively make use of the RoW.

With the ambitious power development program in the country, higher capacity lines have become essential with establishment of high capacity power stations and power pools. Bulk power transmission not only facilitates reduction in number of new lines to be constructed but also offers relief for ever increasing right of way constraints. Besides construction of a large number of 765 kV single circuit and double circuit transmission lines, implementation of +/- 800 kV UHVDC lines has been undertaken by POWEGRID for bulk transmission of power through long distance. A 1200 kV test station including 1200 kV test line has been established recently by POWERGRID with collaboration of various domestic manufacturers in the country and construction of an upgradable 1200 kV line is under progress.

Since the power systems is vast expanding including its transmission lines, there is necessity of introduction of helicopter maintenance on the lines as well as using robotic tools for carrying out maintenance.

Keeping in view the importance of the subject and to disseminate the information on the best practices and innovation in transmission systems amongst the national and international professionals on the subject, Central Board of Irrigation & Power jointly with CIGRE India in association with POWERGRID and Bentley Systems are organizing an International Conference on, ‘Innovations & Best Practices in Transmission Systems’ on 11-12 July 2013 at India Habitat Centre, Lodhi Road, New Delhi.

TOPICS
Various topics of interest have been identified for deliberation during the International Conference:
- Geospatial Workflows in Transmission ROW
- Reliability Centered Maintenance (RCM) for Operational Excellence
- Substation Engineering the 21st Century Utility
- Minimizing the Impact of New Overhead Lines
- Reliability and Design Optimization
- Conductors, Installation and Long Term Performance
- Maintenance Procedures of EHV Transmission lines
- Probable Causes of Failure of the Transmission Line Components
- Condition Monitoring of EHV Transmission Lines
- Counter Measures for Pollution
- Insulator-washing/Cleaning
- Emergency Restoration of Damaged Transmission Lines
- Helicopter Maintenance Techniques
- Composite/Polymer Insulators
- Hotline Maintenance
- Prevention Maintenance Schedules of Transmission Lines
- Case Studies

CALL FOR PAPERS/CASE STUDIES
Experts who desire to participate for delivering lectures on different aspects of Innovations & Best Practices in Transmission Systems including case studies are requested to furnish the write-ups to reach CBIP office latest by 30th June 2013.

DATES AND VENUE
The Conference will be held on 11-12 July 2013 in the Jacaranda Hall, India Habitat Centre, Lodhi Road, New Delhi - 110 003.

WHO SHOULD ATTEND
The Conference will be of special interest to Power Utilities/Corporations, State Govt. /SEBs, Researchers/Academicians, Manufacturers, Planners, Operators, Consultants, Electrical Contractors etc.
REGISTRATION FEE

The registration fee for attending the Conference is given below:

<table>
<thead>
<tr>
<th>SAARC Countries per participant</th>
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The perspective participants, desirous of attending the Conference may register themselves by sending the following details to CBIP along with necessary payments:

Delegate Name : __________________________________________________________
Designation : ______________________________________________________________
Organization : ______________________________________________________________
Mailing address : ____________________________________________________________
Phone : ___________________ Fax : ___________________ E-mail : ___________________

Payments should be made by cheque at par/Demand Draft drawn in favour of “Central Board of Irrigation and Power”, payable at New Delhi or by transfer the amount to HDFC Bank; Branch & Address: G-3/4, Suryakiran Building, 19 Kasturba Gandhi Marg, New Delhi 110001; Saving Bank Account No: 0003111000441; Branch /RTG/ NEFT IFSC: HDFC0000003; MICR Code: 110240001; Swift code: HDFCINBBDEL

Registration fee once paid will not be refunded however change of nomination is accepted. Participants will have to make their own arrangement for travel, boarding and lodging, etc.

OTHER ATTRACTIONS

Scope exists for organizations to be sponsor on lump sum payment with following attendant benefits:

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<tr>
<th>Sl. No.</th>
<th>Category</th>
<th>Fee in Rs.</th>
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<tr>
<td>1</td>
<td>Gold Sponsorship</td>
<td>3,00,000</td>
<td>10</td>
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<tr>
<td>2</td>
<td>Silver Sponsorship</td>
<td>2,00,000</td>
<td>6</td>
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<tr>
<td>3</td>
<td>Support</td>
<td>1,00,000</td>
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Benefits:

- Name of organization in the list of sponsors
- Organization may nominate delegates as mentioned above
- One full page advertisement in proceedings volume
- Distribution of literature/brochures

ADVERTISEMENT IN PROCEEDINGS VOLUME

A limited space will be made available on first come first served basis, for advertisement to the organizations, involved in the concerned field, in the proceedings of the Conference. The interested organizations are required to send the advertisement material, i.e., Art Work/Negative/ Positive along with payments as detailed below:

(i) Inner Pages Rs. 25,000/-
(ii) Second or Third Cover Rs. 30,000/-

S.T. extra 12.36%

ADDRESS FOR CORRESPONDENCE

All correspondences relating to the event should be addressed to:

**Shri V.K. Kanjlia**
Secretary
Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi - 110 021
Tel: 91-11-26115984/26116567 Extn: 133 Fax: 91-11-26116347
E-Mail batra@cbip.org, cbip.batra@yahoo.com; Web : http://www.cbip.org
Contact person : Mr. S.K. Batra, Senior Manager - Technical
Eminent experts from POWERGRID, BHEL and other organizations will be making presentation during the conference. Shri Gopal ji, General Manager-Engg. Transmission Line Group, and Shri Anish Anand, Addl. General Manager-Engg. Transmission Line Group, Power Grid Corporation of India Ltd. have tentatively confirmed their presentation besides, renowned experts from Bentley Systems.

This is a unique Conference which is going to cover almost all the major issues and concern on the subject. The details of topics and the experts are given below:

Streamlined Design of Brownfield and Greenfield Substations: For many utilities and their engineering contractors, the substation design process has remained virtually unchanged since Computer-Aided Drafting (CAD) replaced manual 2D drawing methods. This CAD-centric approach has over time proven to be manually intensive and prone to error. In recent years new intelligent substation design technology has been introduced to modernize substation design and enable a significant increase in engineering efficiency. This session will explore the benefits of intelligent substation which combines the physical and electrical design disciplines while providing productivity tools specifically for electric substation design by Mr. John Zwerlein - Director, Sales Support, Electrical Products, Bentley Systems Inc. USA

Mr. Zwerlein has spent his entire 25 year career in the electrical CAD/CAE industry. He began in a startup company that developed promise electrical design software and distributed it worldwide. Later, he became an entrepreneur, participating in the development of an electrical design tool on top of AutoCAD that eventually became AutoCAD Electrical. Now, Mr. Zwerlein has joined forces with his electrical colleagues at Bentley Systems to continue the development of Bentley Substation, promise, and Bentley Raceway and Cable Management.

Geospatial workflows in Transmission RoW Studies: This presentation will provide the role of mapping and geospatial workflows in the design of a transmission corridor. The most notable and challenging issue the transmission sector is facing today is the Right of Way (ROW). It is the need of the hour to develop high intensity transmission corridor in an environmentally friendly manner including protection of flora and fauna. The presentation will focus on defining geospatial workflows which would aid transmission corridor selection. Workflows discussed during the session assume that some level of mapping is available to the engineers to arrive at corridor alternatives. Geospatial workflows include topographic mapping, surveying, geotechnical, remote sensing and cadastral studies. The speaker for this presentation will be Mr. MSV Rao - Solutions Architect, Bentley Systems India.

Mr. Rao works as Solutions Architect at Bentley Systems. He has spent over 20 years in CAD/GIS industry. He has been involved in software development, implementation and configuration processes. In his current role, Mr. Rao is focused on building and configuring solutions by interacting with industry experts. His past projects include solutions for public utilities like water, gas, and electricity. His current project focuses on consuming Geotechnical and geological Information available through detailed investigations on Hydro Power projects and using this information to assist tunnel engineers in planning.

Reliability Centered Maintenance (RCM) for Operational Excellence: Reliability Centered Maintenance focuses on understanding the “asset health” to determine what maintenance work should be performed and when something should be done. It enables preemptive intervention before a failure occurs, whereby failure would mean that the equipment is not delivering required performance regardless of whether it is actually broken down or not. The session will help utilities better align their reliability strategy with the business goals, identify physical assets contributing to these goals, prioritize them as per criticality or relative risk and establish targeted performance requirements, which will help utilities move to the next level in maintenance effectiveness, i.e., doing the right work at the right time on the right equipment.

Mr. Vishal Adyanthaya, Technical Manager, Bentley Systems India will going to present this paper during the conference. Mr. Adyanthaya has spent his 15 year career in the Plant, Electrical & Building CAD/CAE industry. Fascinated by the impact created by Automation tools in improving the day-to-day quality of life and engineering assets, Mr. Adyanthaya along with his technical colleagues wants to spread the awareness of software solutions for Asset Performance Management and Engineering.

Asset Information Management for Planning & Disaster Management: Today, while most utilities do not have basic information with respect to their assets, there are some who have this information available but in disparate systems with each of these systems acting as “islands”. In order to facilitate an informed decision, it is important to be able to find the right information and at the right time. Bentley Geospatial Server brings together information in spatial databases, drawings, business documents and other forms through a unique Federated Information Management approach. Information in enterprise data bases, legacy and departmental systems, and project based data in virtually any format is accessible to users through a spatial interface. For a transmission utility, this is an easy and quick way to access information about their asset which in turn enables better decisions, leading to estimated better returns on capital investment.

Mr. Rajathurai, Technical Manager- Geospatial has been with Bentley’s Geospatial practice for over 10 years. He has managed key project implementations in areas of mapping, municipal, defense, and water utility in India. The scope of these projects varied from mapping to GIS analysis to utilities and web-based GIS. With an M.Tech (Remote Sensing & GIS) and overall 13 years in industry, Mr. Rajathurai has presented several technical papers at various geospatial conferences around the globe.
To

All concerned


Dear Sir,

CIGRE India and Central Board of Irrigation & Power jointly with POWERGRID & Bentley Systems are organizing International Conference on ‘Innovations & Best Practices in Transmission Systems’ on 11-12 July 2013 at Jacaranda Hall, India Habitat Centre, New Delhi 110003 with the aim to spreading the latest technological developments & innovations in the field.

The topics for Conference as mentioned in the Information Bulletin have been identified keeping in view the present-day scenario. Eminent experts from CEA, POWERGRID, BHEL, Bentley Systems & other reputed Organizations are going to present the papers/case studies during this International Conference on the subject. Following experts have so far confirmed their participation during this international conference:

1. Shri Gopal ji, General Manager–Engg. Transmission Line Group, POWERGRID
3. Mr. John Zwerlein - Director, Sales Support, Electrical Products, Bentley Systems Inc. USA
4. Mr. MSV Rao - Solutions Architect, Bentley Systems India
5. Mr. Vishal Adyanthaya, Technical Manager, Bentley Systems India
6. Mr. Rajathurai, Technical Manager- Geospatial, Bentley Systems India

We are sure that the deliberations during conference will go a long way in updating the knowledge of participants and they will have an excellent opportunity to interact and exchange their views. We seek your kind cooperation in making the event successful and request you to kindly arrange to nominate a few officers from your organization to participate in the Conference. The registration fee for attending the Conference is given below:

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Service Tax 12.36% extra. A copy of the Information bulletin giving details about topics, registration fee etc. is also enclosed for ready reference please.

Thanking you,

Yours faithfully,

V.K. Kanjlia
Secretary

DA: Information bulletin