



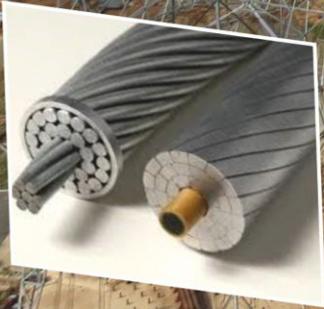
ट्रांसमिशन लाइन टावरों / खंभों और उनके सहायक उपकरणों के  
डिजाइन और परीक्षण में नवीनतम विकास पर  
राष्ट्रीय सम्मेलन

14 और 15 दिसंबर, 2023



**National Conference on  
Latest Developments in Design & Testing of  
Transmission line towers/poles & its accessories**

14<sup>th</sup> & 15<sup>th</sup> December, 2023



आयोजक:

यांत्रिक इंजीनियरी प्रभाग

केन्द्रीय विद्युत अनुसंधान संस्थान

प्रो.सर सी.वी.रामन रोड़, पो.बा.सं.

सदाशिवनगर, बेंगलूर - 560 080, भारत

वेबसाइट: <http://cpri.res.in>

ORGANIZED BY

**Mechanical Engineering Division**

**Central Power Research Institute**

Prof. Sir. C.V. Raman Road, P.B.No.8066,

Sadashivanagar, Bengaluru – 560 080, India

Website: <http://cpri.res.in>

## ABOUT CPRI

Central Power Research Institute (CPRI) is the power house of Indian electrical industry set up in 1960 by the Government of India, functions as a National organization for applied research in power engineering, assisting the electrical industry in product development and quality assurance. CPRI also serves as an independent laboratory for testing and certification of power equipment up to and including UHV class. CPRI is a member of International bodies such as STL (Short Circuit Testing Liaison) of Europe, DLMS UA, DNP User group, Modbus & OPC foundation and is accredited by ASTA-UK, UCAIUG. Over the period, CPRI officers have gained lot of practical knowledge concerning to testing and operational problems of the industry. CPRI is a leading provider of Training and Continuing Education to Utilities, PSUs, across the country for the past six decades. Mechanical Engineering Division of CPRI, Bangalore is equipped with State - of the - Art Testing and R&D facilities and has been rendering consultancy services on new design, design validation of transmission line towers/poles and tower like structures to various power utilities, industries as per national and international standards.

## ABOUT THE CONFERENCE

The transmission lines are the connecting links between the generating stations and distribution systems, as well as links between transmission systems. Extensive transmission networks have come into existence for transporting bulk power from generating stations, many 400 kV AC and few 765 / 800 kV AC & 500 kV HVDC transmission systems are already working satisfactorily

in our country plans are already afoot in the country to introduce 1200 kV AC ( Eight conductor bundle configuration ) transmission lines. India has massive transmission network expansion programme and several EHV/UHV transmission lines are planned in the years ahead, which would form an integral part of the national grid. In addition, all our efforts have to be put in to ensure that the existing EHV/UHV transmission lines perform satisfactorily with no down time so that additional investment in transmission system network could be judiciously planned. The difficulties experienced by the power utilities in finding the required corridor for new transmission lines and increased demand for power can be met by Up-rating or Up-grading the existing transmission lines with HTLS conductors. Efficient use of available Right of Way ( ROW) by adopting new techniques for line compaction have become one of the primary objectives of transmission system planners. Keeping all these facts in view, Mechanical Engineering Division (MED) of CPRI is organizing a two-day national level conference on "Latest Developments in Design & Testing of Transmission line Towers/Poles & its accessories" during 14th & 15th December 2023 at CPRI, Bengaluru in order to enrich the Indian Power Sector with latest knowledge on overhead power transmission line tower/pole design, testing and evaluation, O&M of transmission lines etc. This two day conference is intended to provide a common platform for designers, manufacturers, power utilities, engineers and consultants to discuss the latest developments in design & testing of overhead transmission line support structures and its components. The deliberations in the conference would greatly benefit the participants.

## CALL FOR PAPERS

The conference will cover recent trends in overhead transmission lines and its components of EHV/UHV class. Technical papers are invited on the topics given below :-

- ❑ Towers - Square base, Rectangular base, Narrow base, Guyed, Multi-circuit towers, Slim towers
- ❑ Poles - Steel Pole, Concrete poles ( RCC/PCC ), FRP poles
- ❑ Conductors - ACSR, AAAC, HTLS (High Temperature Low Sag ), Invar, carbon composite
- ❑ Insulators - Ceramic, Glass, composite insulator, silicone rubber insulator
- ❑ Earth wire - Galvanized Steel wires, Optical Ground Wire ( OPGW)
- ❑ Vibration dampers, Spacer dampers, line hardware fittings
- ❑ Tower foundation, Pole foundation
- ❑ Compact transmission lines with Insulated cross arm, New type of support structures
- ❑ Wind effects on transmission line towers, conductors/wires, insulators etc.
- ❑ Up-grading/Up-rating of existing transmission lines
- ❑ Failure investigation of transmission line towers/poles and its components
- ❑ Efficient use of ROW ( Right of Way ) issues in urban and forest areas
- ❑ New materials for overhead transmission line components
- ❑ O&M of transmission lines, Hotline maintenance, Robotic inspection of overhead transmission lines
- ❑ RLA studies / Tower Audit of transmission lines
- ❑ Ageing, Fatigue and Corrosion issues of conductors, steel towers, power line structures, sub station structures etc.

## PAPER SUBMISSION AND PRESENTATION

Official language of this conference is English. Authors intending to present papers are invited to submit the paper on any of the above mentioned topics. Authors are required to submit the full length paper limited to 8 pages in single column in MS word format by soft copy through E-mail ( mail ID: msraj@cpri.in, vijayakumar@cpri.in ). The paper shall be in TITLE case & Bold. The paper should be on A4 size in single column in Times New Roman Font 12, colour Black, single line spacing with margin 1.25 inch on left and 1 inch on remaining three sides. Along with full length paper, authors are requested to furnish a resume limited to 15 lines with name of the organization, country, position, telephone No. etc. At least one author of each accepted paper must register for the conference and pay the registration fee before the paper is released for publication or scheduled for presentation in a technical session during the conference. The accepted/selected papers will be submitted for possible publication in Springer Journal / Journal of CPRI.

## IMPORTANT DATES

Call for papers	:	01 <sup>st</sup> September 2023
Last date for submission of paper	:	24 <sup>th</sup> November 2023
Notification of Acceptance of paper	:	30 <sup>th</sup> November 2023
Registration for participation	:	03 <sup>rd</sup> October – 04 <sup>th</sup> December 2023
Conference Dates	:	14 <sup>th</sup> & 15 <sup>th</sup> December 2023

**VENUE: S.J. AUDITORIUM, CPRI Bengaluru**

## WHO SHOULD ATTEND

An excellent opportunity for State Electricity boards/Power Transmission Corporations, Power Utility Engineers, Designers & Practicing Engineers, Consultants, Large power consumers/industries, Manufacturers, Service providers, Researchers, Academic Institutes etc.

## REGISTRATION

The perspective participants, desirous of attending the conference may register themselves by sending the details to CPRI along with necessary payments. Use the registration form enclosed and send it along with the payment. The conference timing will be 9.00 AM to 5.30 PM. The registration will start at 8.00 AM on 14th December 2023. Registration fee shall cover the registration kit/ Proceedings and Tea/ coffee / lunch during the Conference. All payments should be made by ONLINE MODE. The registration fee for attending the conference is given below:

Sl. No	Institutions	Registration Fee
1	Private/General delegate	Rs. 10,000/- + 18 % GST extra.
2	State Government/Central Government/ Public Sector / Power Sector Utilities	Rs. 7000/-+ 18 % GST / per delegate
3	Group Discount for an Institution /Organization/ Private Sector for nomination of a) Minimum 3 participants b) Minimum 4 or more participants	Rs. 4500/-+ 18 % GST / per delegate Rs. 4000/-+ 18 % GST / per delegate
4	Faculty Members of Educational Institutions	Rs. 5000/- + 18 % GST / per delegate
5	Students of Educational Institutions	Rs.3000/- + 18 % GST / per delegate

## Mode of payment

Note: The conference fee are to be paid in advance through ON-LINE mode with the following link

[https://cpri.res.in/online-testing/pay\\_online](https://cpri.res.in/online-testing/pay_online) Please select "Advance payment" Kindly provide the TAN No. of the company and the TDS certificate also to be submitted if the TDS is deducted at source. The PAN, GST and SAC details of CPRI, Bengaluru are given below

PAN No.	AAAAC0268P
GST No.	29AAAAC0268P1ZF
SAC	998346

**Bank charges if any shall be borne by the delegates / organizations**

## Sponsorship

We invite stakeholders to make use of the opportunity of this event to enhance their business opportunities by way of sponsorship.

Category	Amount, Rs.	Privileges		
		Free delegates	Name/Logo	Free Advertisement in the proceedings
Platinum	5,00,000/- (plus GST @18%)	10	Conference Venue, conference kit	4 pages
Gold	3,00,000/- (plus GST @18%)	06	Conference Venue, conference kit	2 pages
Silver	1,00,000/- (plus GST @18%)	03	Conference Venue, conference kit,	1 page

**Shri. B. A. Sawale,**  
Director General, CPRI

Conference Chair  
**M. Janardhana,**  
Additional Director, CPRI, Bengaluru

Program Organizing Chair  
**Dr. M. Selvaraj,**  
Joint Director, CPRI, Bengaluru

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Shri. S. Ganesh Kumar, Chief Administrative Officer	Shri. C. Raja, Accounts Officer, CPRI

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(भारत सरकार की सोसाइटी, विद्युत मंत्रालय/(A Government of India Society, Ministry of Power)

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