



# NATIONAL SEMINAR ON



## Asset Management of Power Plant Equipment (Thermal & Hydro)



Venue : CPRI - CCAR Seminar Hall, Bangalore.  
3<sup>rd</sup> November 2023.

**Organized by**  
**Materials Technology Division,**  
**Central Power Research Institute,**  
**Prof. Sir C. V. Raman Road, Sadashivanagar,**  
**Bangalore – 560 080.**

## About CPRI

Central Power Research Institute (CPRI) was set up in 1960 by the Government of India to function as a National organization for applied research in power sector and to serve as an independent body for the testing and certification of power equipment. Most of the test facilities at CPRI have been accredited as per ISO / IEC 17025 / BIS norms etc. Over the years, CPRI officers have gained substantial amount of practical knowledge concerning to testing and operational problems of the Indian power plants and industries. CPRI also provides the consultancy services on various needs of the power sector besides offering Customized Training Programs. It has been extending its services for over five decades to industries in their quest for innovation, new product development, import substitution, quality assurance etc.

The Materials Technology Division (MTD) of CPRI is equipped with advanced and sophisticated test facilities in the area of Materials characterization and evaluation, Destructive & Non-Destructive testing. Division has core group in the highly expertize area and provides consultancy services for Power plants for Condition assessment, Remaining life evaluation, Failure & root cause analysis of all the engineering components and also involved in knowledge dissemination through Conferences, Workshops and training programs in these areas.

## Background

Most of the hydropower plants in India are installed during late 60's and these power plants are still under continuous service. Over a period of time, the equipment of these power plant undergo degradation due to various reasons such as frequent startups and shutdown of plant, operating above design limits, materials degradation like corrosion, erosion, growth of flaws etc. Condition assessment of such critical power plants components including civil structures plays a vital role in enhancing the performance and availability of the plants. The Renovation and Modernization program of aged units has been taken up by various utilities since last decade. The condition assessment of the plant components through RLA studies has an important role. The rapid change scenarios in the area of inspection technologies and its applications will influence on diagnosis techniques and condition assessment programs are highly challenging and needs the experience sharing platform.

## Seminar Objectives

The objective of the seminar is to exchange knowledge, experience and concerns on the topics related to trends in condition assessment of hydro power plant equipment like, turbine, generators, transformers, penstock, water intake system etc to provide insight understanding to manufacturers, utilities, Industries and academic institutions. The present seminar covers the technological advancements in various NDT technologies, Diagnostic techniques including case studies of several hydro plants. The seminar will provide a common platform to review the recent advances and futuristic trends, share operational experiences and discuss requirements of reliable power equipment of world class quality. The program covers lectures from technical experts in the allied area, manufacturers and academicians followed by technical discussions.

## Topics Covered

- Condition assessment of water intake system and water conduit system of Hydro Power Plants.
- Condition assessment of Turbine/Generators of Thermal and Hydro Power Plants.
- Condition assessment of Auxiliary equipment of Thermal and Hydro Power Plants.
- Non Destructive Evaluation methods and its applications towards Power plant equipment.
- Condition assessment of Barkers, insulators, switch yard Equipment.
- Condition assessment of civil structure of Hydro Power station. .
- RLA and R & M activates in Hydro Power Stations.
- Coal quality influence on boiler operation and performance.
- Coal combustion and Boiler performance.

## Who Can Attend

The Seminar is intended for practicing engineers, professionals working in utilities, Engineers working in manufacturing, and electrical industries, R&D/Academic Institutions, power utilities including State Electricity Boards, and Prospective users and Practicing Engineers in Hydro Power Stations, Hydro consultants etc.

## Travel and Accommodation:

- Bangalore is well connected by Road, Rail and Air.
- Participants have to make their own travel arrangements.
- Guest house accommodation on twin share basis can be provided on chargeable basis subject to availability.
- CPRI is situated in between Mekhri Circle and Indian Institute of Science (commonly known as Tata Institute), opposite to Sadashivanagar Police Station, Bangalore.

## Invitation For Technical Papers

It requested to all professional to submit your experiences and ideas in the form technical papers. The selected papers will be published in the seminar proceedings.

Last Date for submission of Technical Paper: **23<sup>rd</sup> October, 2023.**

## Registration and Fee details

All the participants have to register for the Seminar. The details of the registration fee per delegate are as indicated below. The registration fee includes the registration kit, refreshments working lunch excluding accommodation.

Participant Details	Fee per participant
State Govt./ Central Govt. / Public sector/ Govt. Power sector Utilities	Rs. 3,500/- plus 18 % GST
Faculty members of Educational institutions	Rs. 3,500/- plus 18 % GST
Students of Educational institutions	Rs. 2,500/- plus 18 % GST
General Registration Fee - Private organizations	Rs. 5,000/- plus 18 % GST
Group discount for private organizations	
(a) Minimum 3 participants (10% discount).....	Rs. 4,500/- plus 18 % GST
(b) Minimum 4 or more participants (20% discount)	Rs. 4,000/- plus 18 % GST
Foreign Delegates Registration fee per participant	Rs. 10,000/- plus 18 % GST

- ❖ Delegates should register with fee along with GST @18% by way of crossed Demand Draft drawn in favor of Accounts Officer, CPRI, payable at Bangalore or CPRI has implemented online payment through CPRI Website via SBI E Payment Gateway. The link for making online payment via CPRI website

**[https://cpri.res.in/online-testing/pay\\_online](https://cpri.res.in/online-testing/pay_online)**

Beneficiary Name: Central Power Research Institute, Bangalore.

- ❖ Participants are requested to register themselves by filling and mailing the attached registration form along with payment details on or before 1<sup>st</sup> November 2023.

<b>Amount</b>	<b>Details of Sponsorship</b>
<b>Rs.1,00,000/-</b>	Promotional & presentation opportunities (Gold) with free registration for 4 Delegates, printing logo on banners, Distribution of product brochure with kits to delegates, sponsor logo placed at Buffet lunch and tea session.
<b>Rs. 50,000/-</b>	Promotional & presentation opportunities (Silver) with free registration for 2 Delegates, printing logo on banners, Distribution of product brochure with kits to delegates, sponsor logo placed at Buffet lunch and tea session.

### **IMPORTANT DATES :**

Last Date for submission of Technical Paper: **23<sup>rd</sup> October, 2023.**

Confirmation of Acceptance of Paper : **25<sup>th</sup> October, 2023.**

Late Date for Registration : **01<sup>st</sup> November, 2023.**

<b>Organizing By</b>	
<b>Dr. T. Mallikharjuna Rao , Additional Director, HOD</b>	<b>Program Chair</b>
<b>Mr. G. Kishore Kumar , Joint Director</b>	<b>Program Coordinator</b>

### **Address for Correspondence:**

All correspondence related to this programme may be addressed to

**Dr. T. Mallikharjuna Rao.**

Email: [tmrao@cpri.in](mailto:tmrao@cpri.in) / [kishorekumar@cpri.in](mailto:kishorekumar@cpri.in)

Materials Technology Division,  
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**CENTRAL POWER RESEARCH INSTITUTE**  
PROF. SIR. C.V. RAMAN ROAD, PO BOX 8066,  
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**REGISTRATION FORM**

**National Seminar on**  
**“Asset Management of Power Plant Equipment”**  
**03<sup>rd</sup> November 2023.**

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Mr. Ms. Mrs. Dr. Prof. Others (please specify) \_\_\_\_\_

Full Name of the Participant \_\_\_\_\_

Designation \_\_\_\_\_ Nationality \_\_\_\_\_

Full address of Organization \_\_\_\_\_  
(for correspondence) \_\_\_\_\_

PIN Code: \_\_\_\_\_

Phone/Fax Nos.:(Please Mention STD Code)

Office: \_\_\_\_\_ Res(Optional): \_\_\_\_\_

Fax: \_\_\_\_\_ Mobile/Cell: \_\_\_\_\_

E-mail: \_\_\_\_\_

Enclosed is a Demand Draft No: \_\_\_\_\_ dated \_\_\_\_\_ for Rs. \_\_\_\_\_ Drawn on  
\_\_\_\_\_ bank towards delegate fee drawn in favour of “Senior Accounts Officer, CPRI”

Payable at “Bangalore.” Or Other Payment mode: online payment via CPRI website.

Date: \_\_\_\_\_

Signature \_\_\_\_\_

Note: Kindly mention your Name, Name of the Company and Name of the Workshop behind the Demand Draft

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Completely filled forms & DD shall be sent to:

**Dr. T. Mallikharjuna Rao, Addl. Director /**  
**Mr. G. Kishore Kumar, Joint Director,**  
**Materials Technology Division,**  
**Central Power Research Institute,**  
**Prof. Sir C V Raman Road, PO Box 8066,**  
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**Mobile 91-94228 26022 / 94490 25480**  
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**[kishorekumar@cpri.in](mailto:kishorekumar@cpri.in)**

**Delegates may also transfer the fee by ONLINE Transfer:**  
CPRI has implemented online payment through CPRI  
Website via SBI E Payment Gateway.  
The link for making online payment via CPRI website  
**[https://cpri.res.in/online-testing/pay\\_online](https://cpri.res.in/online-testing/pay_online)**  
Beneficiary Name:  
Central Power Research Institute, Bangalore

<http://www.cpri.res.in/training>

Kindly use separate form for each participant, downloaded/photocopies of this registration form is acceptable.