

# CENTRAL BOARD OF IRRIGATION & POWER



*Invites you to join the*

## WEBINAR ON

# KNOWLEDGE BASED MAINTENANCE

*for Thermal Power Plants*

**1<sup>st</sup>-2<sup>nd</sup> February, 2021 (1500-1630 hours)**



**Shri Pankaj Bhartiya, Former CenPEEP, NTPC**

## KEY TAKEAWAYS

- *Overview of Maintenance strategies*
- *Introduction of Concept of RCM and Risk Evaluation and Prioritization*
- *Basic concepts*
- *Implementation methodology*
- *Case studies on typical power plant applications and key predictive maintenance technologies*

## CONTACT US

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## BACKGROUND

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Central Board of Irrigation & Power (CBIP) a premier Institution, setup by Government of India in 1927 is serving the nation in the disciplines of Water Resources, Power & Renewable Energy Sectors for more than 93 years.

It is an exchange and knowledge bank for dissemination of technical knowledge & professional experience to help Engineers/ Professionals to update their knowledge and gain practical know-how.

## PROGRAM OBJECTIVES

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Demands of changing business scenario, competitive pressures, and regulatory requirements require a re-look at the maintenance strategy in power generating utilities. Increased size of the plants and advancements in technology throws newer challenges for the maintenance programs and strategies. Also, there has been a lot of development in the tools and technologies available today.

Therefore, there is a need to identify maintenance requirements of a machine in its current operating context and define maintenance strategies accordingly. These strategies must focus on specific equipment needs. The plant managements today have evolved a maintenance road map having various steps. Each step includes elements of experiential learning and evaluation of maintenance requirements.

In view of the above, CBIP is organizing a webinar on “**KNOWLEDGE BASED MAINTENANCE**” from 01-02 February, 2021 (1500-1630 hours). This program focuses on maintenance road map and various stages of maintenance. It will help participants understand predictive maintenance, proactive maintenance, reliability centered maintenance and risk evaluation & prioritization. It will also enable participants understand the needs of these programs, and interrelationships between various maintenance strategies.

Program would provide participants with an overview of Knowledge based maintenance model, share latest developments in strategies being followed and the most effective predictive maintenance tools and technologies.

### Note:

- Audio/video recording is prohibited however the presentations will be shared with participants via e-mail.
- CBIP will not be responsible for any quality and interruption of audio/video due to poor internet connectivity at the customer end.
- Online training session link will be provided to the participants only. Forwarding the link to other person is strictly prohibited.
- The participants must adhere to the time schedule fixed for the training.

## AGENDA

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The program is divided into 2 days:-

### DAY 1 (01<sup>st</sup> February 2021)

- Overview of Maintenance Strategies
- Basic concepts
- Types of maintenance
- Implementation methodologies

### DAY 2 (02<sup>nd</sup> February 2021)

- Predictive maintenance technologies
- The basic concepts
- Applications and case studies

## UNIQUE FEATURES

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- Virtual Instructor led Webinar
- Training with high safety of participants w.r.t. COVID19
- No travel related costs
- Learning and working balance as our sessions are planned for half day
- Flexibility to join via android/iOS mobile phones
- Well proven online platform with high cyber security
- Live message chat, Live voice chat, polls and Quiz
- Real time engagement & Experts Panel discussions with Case studies
- Working Group Discussion within participants
- Demonstration of practical aspects through videos & E-Certificates

## WHO SHOULD ATTEND?

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Executives working in Operation, Maintenance, Design, Erection and Efficiency divisions of Boiler & Turbine and Generator and Chemist / Chemical Engineers.

## REGISTRATION FEE

The duration for the webinar will be of 90 minutes each day (1500-1630 hours) which will be followed by Q&A session.

The participation fee for the program (for full 2 days) shall be:-

Number of Participants	*Member Fee per nomination	*Non-member Fee per nomination
1 or more	Rs.2,200	Rs.2,500
5 or more	Rs.2,000	Rs.2,200
10 or more	Rs.1,800	Rs.2,000
15 or more	Rs.1,600	Rs.1,800
Ph.D Scholars or M.Tech Students(max age=35 years)		Rs.500

**\*18% GST will be charged extra.**

**(GST No. 07AAAJC0237F1ZU)**

**The program is limited to 200 participants.**

### TO REGISTER:

The perspective participants, desirous of attending the webinar may register themselves by sending the following details to CBIP along with necessary payments:

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Mailing address:** \_\_\_\_\_

**Mobile No.:** \_\_\_\_\_

Payments of registration fee 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,

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

**Saving Bank Acc. No:** 00031110004411;

**Swift Code:** HDFCINBBDEL;

**IFSC:**HDFC0000003; **MICR Code:**110240001

## ADDRESS FOR CORRESPONDENCE

**Shri A.K. Dinkar, Secretary, CBIP**

**Shri A.K. Bhatnagar, Director, CBIP**

Nodal Officer: Shri Shashank Sharma,  
Assistant Manager

Mobile No.: 9650782428;

E-mail:- shashank@cbip.org,

shashank271993@gmail.com;

**Central Board of Irrigation & Power**

Malcha Marg, Chanakyapuri,

New Delhi – 110021

Phone: 011 26115984/26116567

## HOW TO JOIN

The program shall be conducted in **Microsoft Teams**. After registration, the participants will be provided the link 1 day prior to the session to participate on their registered e-mail ids. The link shall be open for joining on 1430 hours on 01<sup>st</sup> Feb., 2021.

### For joining through laptop:-

**Step-1:-** Click on the link provided.

*(Your internet browser will open along with 3 options)*

**Step-2:-** Click on the option “**Continue on this browser**”

*(The Microsoft Teams window will open on the browser with a field to write the name)*

**Step-3:-** Enter the name of organization and yourself and click on “**Join Now**”  
(example: CBIP-Shashank)

### For joining through mobile/smartphone:-

**Step-1:-** First Download the MicroSoft Teams App from play store/ app store on your phone

**Step-2:-** Click on the link provided.

*(Microsoft Teams app will open along with 2 options)*

**Step-3:-** Click on the option “**Join meeting**”

*(A window to enter the name will open on the browser)*

**Step-4:-** Enter the name of organization and yourself and click on “**Join meeting**”  
(example: CBIP-Shashank)

**\*\*Only the registered participants shall be allowed to attend the program\*\***

## KEY SPEAKERS

**SHRI PANKAJ BHARTIYA**, is Director at EPS Pvt. Ltd, and is having over 35 years of experience in the power sector. He holds a bachelor’s degree in Mechanical Engineering from National Institute of Technology (NIT) Kurukshetra. He worked for 17 years in the field of Efficiency and Reliability, at NTPC corporate group, CenPEEP (Center for Power Efficiency and Environmental Protection). At CenPEEP, he was responsible for the development and implementation of Efficiency Management System and Strategies, as well as Reliability Strategies such as Predictive Maintenance, Reliability Control mechanisms and Risk Based Maintenance Strategies. He was also responsible for development of corporate strategy for implementation of PAT (Perform Achieve Trade) for NTPC.