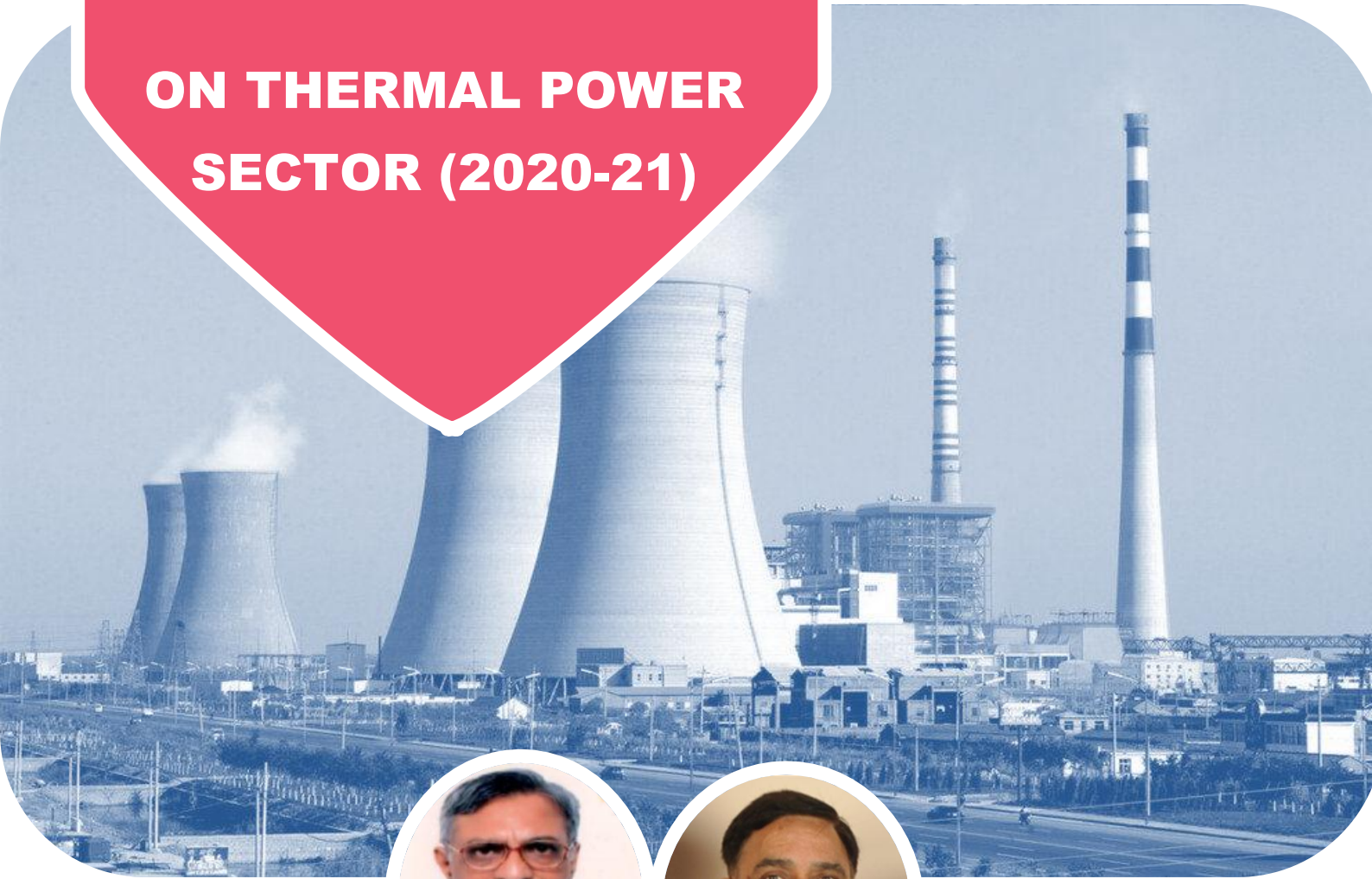


WEBINARS

ON THERMAL POWER SECTOR (2020-21)



Shri Pankaj Bhartiya
Ex GM, NTPC Ltd.



Shri DK Agrawal
Ex ED, NTPC Ltd.

KEY SPEAKERS

CONTACT US



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TOPICS

- Knowledge Based Maintenance
(22-23 Feb., 2021)
- Performance assessment of Turbine & Auxiliaries and Approach for Diagnosis
(01-02 Mar., 2021)
- Optimisation of Auxiliary Power Consumption
(08-09 Mar., 2021)

BACKGROUND

Central Board of Irrigation & Power (CBIP)

a premier Institution, setup by Government of India in 1927 has been 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.

CBIP's main objective is to disseminate technical knowledge through various modes, e.g., publication of technical documents, organizing conferences /workshops and to provide specialized training to the professionals in the Water Resources, Power & Renewable Energy Sectors.

OBJECTIVE

In the present scenario efficiency improvement of power plants has become prime concern which requires requisite corrective action at the appropriate time. Accordingly **CBIP** is organizing a series of webinars on the following topics in the upcoming months:-

- + **Knowledge Based Maintenance** (22-23 Feb., 2021)
- + **Performance assessment of Turbine & Auxiliaries and Approach for Diagnosis** (01-02 Mar., 2021)
- + **Optimization of Auxiliary Power Consumption** (08-09 Mar., 2021)

UNIQUE FEATURES

- 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

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.

REGISTRATION FEE

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

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

Number of Participants	*Member Fee per nomination	*Non-member Fee per nomination
1 or more	Rs.2,000	Rs.2,500
5 or more	Rs.1,800	Rs.2,000
10 or more	Rs.1,500	Rs.1,700
15 or more	Rs.1,200	Rs.1,500
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

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 at 1430 hours on the day of the program.

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****

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

KEY SPEAKERS

SHRI PANKAJ BHARTIYA is Former General Manager, NTPC Ltd. Presently he 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.

SHRI D K AGRAWAL is Former Executive Director. NTPC Ltd. Presently he is Director at EPS Pvt. Ltd. and is having over 37 years of national & international experience in various spheres of power sector with TCE and NTPC Ltd. He holds a bachelor's degree in Mechanical Engineering from Banaras Hindu University (BHU), Varanasi. He has worked for 4 years in erection & commissioning, 14 years in the field of Efficiency and Reliability, at NTPC corporate group, CenPEEP (Center for Power Efficiency and Environmental Protection). He has also worked on other bilateral projects with JICA (Japan) and with many SEBs for Efficiency & Reliability pilot projects for capacity building and technology transfer, leading to improvements in plant efficiency and reliability.

Post superannuation, he is working as an independent consultant and is engaged by one of the leading IPP and state Utility for establishing Energy & Efficiency Management System across the organization. He is also working as an independent adviser to SEB's & IPP's in Efficiency and Reliability area.

Webinar 1

KNOWLEDGE BASED MAINTENANCE

(22-23 Feb., 2021)

PROGRAM OBJECTIVES

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 22-23 February, 2021 (1500-1630 hours). This program focuses on maintenance road map and various stages of maintenance. It will help participants understand predictive maintenance, pro-active maintenance, reliability centered maintenance and risk evaluation & prioritization. It will also enable participants understand the need 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.




AGENDA

The program is divided into 2 days:-

DAY 1 (22nd February 2021)

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

DAY 2 (23rd February 2021)

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

WHO SHOULD ATTEND?

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

Webinar 2

PERFORMANCE ASSESSMENT OF TURBINE & AUXILIARIES & APPROACH FOR DIAGNOSIS

(01-02 March, 2021)

PROGRAM OBJECTIVES

In the present scenario efficiency improvement of power plants has become prime concern. The achievement of aforesaid potential requires very close monitoring of performance and use of latest state-of-the-art analytical tools, techniques, system etc to arrive at requisite corrective action at the appropriate time. Performance of Steam Turbine & Auxiliaries has got significant impact on the overall performance of the unit.

In view of the above, CBIP is organizing a webinar on “**PERFORMANCE ASSESSMENT OF TURBINE & AUXILIARIES & APPROACH FOR DIAGNOSIS**” from 01-02 March, 2021 (1500-1630 hours). This program provides the participants an overview of the methodology and identification of performance deviations of various parameters. The program covers the concept of sub-system for effective diagnosis of problems. It also deals with related case studies. This program has been specially made for executives working in the area of Efficiency, Operation & Maintenance.

This program is based on the practical experiences and case studies at power Stations. The program covers the latest systems & practices adopted by the utilities for performance assessment and diagnosis. At the end of the programme the participants will be able to use state of the art techniques for performance assessment of Steam Turbine and Auxiliaries & enforcing the overall performance.

AGENDA

The program is divided into 2 days:-

DAY 1 (01st March 2021)

-  Performance Monitoring an Essential Tool for Overall Heat Rate Improvement
-  Turbine Cycle Performance Testing & Optimisation

DAY 2 (02nd March 2021)

-  HP & IP Turbine Efficiency
-  Turbine Cycle Heat Rate – A Case Study

WHO SHOULD ATTEND?

Middle Level Executives associated with Efficiency, Operation and Maintenance of Steam Turbine & Auxiliaries of Power Plant

Webinar 3

MONITORING AND OPTIMISATION OF AUXILIARY POWER CONSUMPTION

(08-09 March, 2021)

PROGRAM OBJECTIVES

Auxiliary Power in coal fired power stations accounts for 5.7% (500MW Units) to 13% (30MW Units) of the Gross Generated power at plant full load. The excessive power due to factors such as coal quality, high steam flow, internal leakage/ingress in equipment, partial loading of Unit due to low load requirement, inefficient drives, distribution network losses, reduced power quality, ageing etc is quantified. An experimental study has shown that 85.7% APC in excess of the design value can be traced to higher equipment's margin, partial load operation, coal quality and its indirect effects. The APC can be optimised even below the design value by operational optimisation, overhaul of equipment's, revamping, design modifications etc.


In view of the above, CBIP is organizing a webinar on “**MONITORING AND OPTIMISATION OF AUXILIARY POWER CONSUMPTION**” from 08-09 March, 2021 (1500-1630 hours). The program covers in detail the techniques and strategies for restoration of APC to the design value and further improvement. The program covers the concept of sub-system for effective diagnosis of problems. It also deals with related case studies. This program has been specially made for executives working in the area of Efficiency, Operation & Maintenance.

This program is based on the practical experiences and case studies at power Stations. The program covers the latest systems & practices adopted by the utilities for performance assessment and diagnosis. At the end of the programme the participants will be able to use state of the art techniques for Optimisation of Auxiliary Power.

AGENDA

The program is divided into 2 days:-

DAY 1 (08th March 2021)

-  An Approach for Auxiliary Power Consumption (APC) Optimisation
-  Monitoring & Tracking APC

DAY 2 (09th March 2021)

-  APC Optimisation at Partial Load
-  APC Optimisation Initiatives & Benefits - Case Study

WHO SHOULD ATTEND?

Middle Level Executives associated with Efficiency, Operation and Maintenance of Power Plant