

Tutorial Course on

Best Practices in O&M of Thermal Power Stations

20th - 21st July 2017

**Conference Hall, CBIP
Malcha Marg, Chanakyapuri, New Delhi**



Organised by

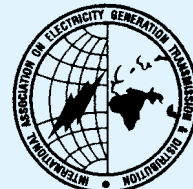


**Central Board of
Irrigation & Power**

in association with



**Society of Power
Engineers (India)**



**International Association on Electricity
Generation, Transmission and Distribution
(Afro-Asian Region)**

ABOUT CBIP

The Central Board of Irrigation & Power (CBIP) has been serving the nation with great distinction as a premier institution for dissemination of knowledge and exchange of professional experiences in the field of Power Generation, Transmission and Distribution of electricity, renewable energy besides various fields of Water Resources. The objective is achieved by the Board through various modes like organizing conferences, Workshops, Imparting Training and preparation of Manuals etc. CBIP has been Conducting long term training programs such as 52 weeks PGDC (Thermal) and 26 weeks PGDC (T&D) program at its Centre of Excellence, Gurgoan. The CBIP Centre of Excellence, Gurgoan is recognized by Ministry of Power, Govt. of India as category-1 Training Institute.

Keeping in view the new initiatives of Govt. of India in renewable energy sector, CBIP is also conducting regular 4 weeks program on “Design Installation and Maintenance of Solar PV” and also conducting programs for TOT and TOA on behalf of SCGJ and PSSC. With the above aim and to help the Indian Engineers to update their knowledge and help them to gain practical know how CBIP is organizing an Tutorial Course on “Best Practices in O&M of Thermal Power Stations” on 20th-21st July, 2017 at Conference Hall, CBIP Building, Malcha Marg, New Delhi.

PROGRAM OVERVIEW AND OBJECTIVE

The good O&M practices at thermal power stations have significance not only in terms of achieving high levels of performance parameters but also for ensuring the good health of the equipment at the power stations. Over the years, the power stations show deterioration in their performance due to ageing factor. The conditions of such power plants get further deteriorated if proper O&M practices are not followed during the operation stage. Best O&M practices are also needed to sustain performance of rehabilitated power plants.

High availability requires strong focus on maintenance. Systematic preventive maintenance, annual overhauling program follows reliable suppliers and recommendations supplemented by our experience/monitoring of key components. Condition based predictive maintenance uses intelligent measurements and assessments of several key data.

PROGRAMME PROFILE

Best O&M Practices in Thermal Power – Boiler, Turbine and Balance of plants.

- Basics of Thermal Power Station.
- Operation Management system
 - Daily Review.
 - Weekly Review.
 - Monthly Review.
 - Tripping Analysis.
 - Efficiency Monitoring & Analysis.
 - Overhaul Facilitation from operation.
 - Operation practices to reduce tripping and analysis.
 - Unit re-commissioning activity and monitoring.
- Maintenance Management system
 - Short and long-term Preventive Maintenance.
 - Predictive Maintenance based on condition monitoring.
 - Overhaul Preparedness.
 - Unit wise overhauling engineering declaration.
 - Overhauling scope of work preparedness.
 - Execution activity chart preparation.
 - Identification of spares, work contract and other resources for overhauling and its monitoring for ensuring availability before start of overhauling.
 - Five years Rolling plan for unit overhauling.
 - Pre-Unit overhauling preparedness.
 - Overhauling, activity monitoring based on activity chart.

Performance Improvements plan /Quality Maintenance

- BTL reduction action plan on short term and long term basis.
- Checklist for maintenance activities.
- Checklist for operation activities.
- Protocol for unit overhauling.
- Trouble shooting.
- Best operation and maintenance practices for Milling system.
- Best operation and maintenance practices of Boiler, Turbine and Balance of Plants.
- Weather Specific Precautions like summer, monsoon and winter preparation.

Energy Efficiency and performance Testing

- Energy efficiency technology for effective reliability and practices
- Pre-Overhauling and post overhauling performance testing.

METHODOLOGY

The program would be delivered through classroom sessions, case studies, and interactive group discussions

PRESENTATIONS BY EXPERTS

The lead faculty for this program shall be Shri R.S. Yadava, Former General Manager, NTPC, Shri Shankar Bandyopadhyay, Former Executive Director, NTPC and Dr. D. Banerjee, Former AGM, NTPC along with Invited eminent experts from manufacturing organizations, power utilities; academic & consulting institutions who shall be sharing their in-depth experiences with the participants.

WHO MAY ATTEND

Executives working in operation, maintenance, design, erection and efficiency divisions of boiler, turbine and balance of plants in thermal power stations.

DATE AND VENUE

The program will be held on 20th -21st July, 2017 (Thursday and Friday) in the Conference Hall, CBIP, Malcha Marg, Chanakyapuri, New Delhi-110021.

ABOUT FACULTY



Shri R.S. Yadava, former General Manager (Operation Services), NTPC is Mechanical Engineering Graduate from R.I.T Jamshedpur, Ranchi, Chartered Engineer of Institution of Engineers (India) and Level-D Certified member of IPMA. He has 1 year experience of teaching in Kamala Nehru Institute of Science and Technology, Sultanpur and about 35 years of professional working experience in various thermal power stations of NTPC in various positions including 4 years in Renusagar Power Company Ltd.



Shri Sankar Bandyopadhyay, Former ED (CENPEEP), NTPC is Mechanical Engineering Graduate from BE College, Howrah (now BESU), M. Tech in Thermal Engineering from IIT Delhi and MBA in Finance from IGNOU, Chartered Engineer of Institution of Engineers (India), Qualified auditor for ISO-9001, Lead auditor ISO -14001 & Auditor for OHSAS -18001, and BEE certified Energy Auditor Cum Energy Manager. He has experience of about 38 years in NTPC in major areas of O&M, such as Operation, Commissioning, PG test, Efficiency, Commercial, Maintenance Planning (MTP), Energy Conservation, R&M and O&M contracts.



Dr. Debdas Banerjee, former Addl. General Manager, Centre for Power Efficiency & Environmental Protection, NTPC Ltd. is Ph.D from IIT Bombay and has about 36 years of experience in various fields, out of which he has about 26 years experience in R&D and CENPEEP, NTPC. He has mainly worked in Boiler Performance & gap analysis through off-line monitoring of process parameters, Performance assessment of Air Heater, Mill, ESP & their computations, Combustion optimization in power plant, optimization of Coal blending in Power Station, Assessment of combustion reactivity of Non-Coking coal. He is faculty for training programmes of Power Management Institute of NTPC and also guest faculty of IIT Dhanbad & NPTI.

Some more experts are expected to deliver lectures on the subject during Tutorial Course.

REGISTRATION FEES

The perspective participants, desirous of attending the Tutorial Course may register themselves by sending the details to CBIP along with necessary payments.

The registration fee for attending the Tutorial Course is given below:

(i) Rs. 12,000/- per participant.

(ii) Discounted Fees of Rs. 10,000/- per participant for members of CBIP

Taxes as applicable shall be charged extra (proposed GST on Training is 18%).

Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the Tutorial Course. Participants will have to make their own arrangement for travel, boarding and lodging, etc. All 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, Address: 209-214, Kailash Building, 26, Kasturba Gandhi Marg, New Delhi 110001; Saving Bank Account No. : 00031110004411; Swift Code: HDFCINBBDEL; IFSC: HDFC 0000003; MICR Code: 110240001.

CONTACT PERSON AT CBIP

Mahesh Kumar. *Joint Advisor*

Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi-110021

M : 9871997542 E-mail : mahesh@cbip.org

Tutorial Course on Best Practices in O&M of Thermal Power Stations

20th - 21st July 2017, New Delhi

REGISTRATION FORM

(To be filled in block letters preferably)

Delegate _____
(Surname) (First Name)

Designation _____

Name of Organisation _____

Mailing Address _____

City _____

State _____ PIN _____

Phone _____ Fax _____

E-mail _____

Dated _____ Signature _____

Registration Form, duly filled in, is to be mailed to the following address:

Shri V.K. Kanjlia

Secretary, Central Board of Irrigation and Power, Malcha Marg, Chanakyapuri, New Delhi 110 021, India

Tel : 91-11-26115984/26116567 Fax: 91-11-26116347

Email : mahesh@cbip.org M: 9871997542; Web-site: <http://www.cbip.org>

Note:

- Photocopies of the registration form can be used for additional requirements, if any.
- Spot registration facilities will also be available, provided the prior information is received.