

**3rd Conference on
Operation & Maintenance
and
Renovation, Modernization,
Upgrading and Life Extension of
Hydro Power Plants**

22-23 August, 2017

Venue : CBIP Conference Hall, Chanakypuri, New Delhi



**Excellent Opportunity for O&M and RMU Engineers
to Enrich Knowledge and Share their Experiences**

Organised by



Central Board of Irrigation & Power

in Association with



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

INTRODUCTION

The Central Board of Irrigation and Power (CBIP) in association with International Association on Electricity Generation, Transmission and Distribution (Afro-Asian Region) (AARO) is organizing Conference on “Operation & Maintenance and Renovation, Modernization Upgrading and Life Extension of Hydro Power Plants” on 22-23 August 2017 at Conference Hall of CBIP, Malcha Marg, Chanakyapuri, New Delhi 110021.

AIM & OBJECTIVE

The aim of Operation and Maintenance of hydro power stations is to reduce failure rate by ensuring smooth operational levels of the power utility. It becomes very important to achieve high reliability factors by avoiding costly failures, eliminating avoidable outages. While discussing about operating conditions of the equipments, starting/stopping of the units shall be planned to be minimum to increase the life of equipments.

Periodic physical inspection of HPPs and condition including silt deposition, rusting/erosion of conduit system is very much essential to find out various changes due to aging factor, stresses developed due to water hammer etc. The records of all physical inspections should be maintained by noting all the details.

It would be beneficial to arrange training to O&M staff to refresh their knowledge and to give advanced technical information to improve work quality & quantity.

In addition the equipment spares should be planned and availability of drawing and literature ensured. The condition monitoring of all equipment is a must for reliable working.

As regards maintenance, this can be done by adopting planned preventive maintenance and condition monitoring of its components for all vital areas of the power project.

Best Practices in Operation & Maintenance of Hydro Power station needs to contribute to minimize the downtime of individual generating Units & Plant so that it is available for generation whenever grid demands. The challenges need to be accepted and efforts made by O&M engineers to successfully overcome them.

Renovation & Modernization of old power stations is also a dire necessity. Capacity addition through RM&U of old power stations is an attractive proposition in the present scenario, when most of the SEBs/Power Utilities on account of their financial conditions are not in a position to invest in creation of new generating capacity.

Normally the life of hydro electric power plant is 30 to 35 years after which it requires renovation. While renovating the machine, care should be taken to replace old items/equipments by the new technological alternatives.

Modernization is a continuous process and can be a part of the renovation programme. The reliability of a power plant can certainly be improved by using modern equipments like static excitation, microprocessor based controls, electronic governors, high speed static relays, data logger, vibration monitoring, silt content in water, etc.

Moreover, the work of RMU cannot be studied in isolation as O&M practices being followed by the Power Stations have direct bearing on the RMU works.

To discuss various issues connected with the subject the CBIP has planned to organize two days Conference on “Operation & Maintenance and Renovation, Modernization Uprating and Life Extension of Hydro Power Plants”.

DATES AND VENUE

The Conference will be held on 22-23 August 2017 (Tuesday & Wednesday) in the Conference Hall of Central Board of Irrigation & Power, Malcha Marg, Chanakyapuri, New Delhi 110021.

TOPICS

Following topics of interest have been identified for deliberation during the workshop

- Operation and Maintenance of Hydro Power Plants
- Best Practices for all Equipments of Hydro Power Plants
- Condition Monitoring of Hydro Power Plants
- Operation and Maintenance of Generator & Auxiliaries
- Operation and Maintenance of Transformers & Switchgears
- Silt Problems – Latest Innovations in Epoxy Coatings & Metallurgical Developments for Turbines/Runners
- Case Studies on O&M
- Overview, Need and Scope of Renovation, Modernization, Uprating and Life Extension of Hydro Power Plants
- Strategy of RMU & LE Programme and Methodology for Implementation
- General Guide Lines while Checking Feasibility of Uprating and Approach for Selecting R&M Activities
- Essential Studies for Refurbishment & Uprating of Generator, Turbine and Auxiliaries
- Case Studies on RMU works.

FACULTY

Eminent experts from the organizations like Central Electricity Authority; CPRI; NHPC; SJVNL; BBMB; BHEL; THDC; NTPC; DVC; Tata Power; JP Power, Jindal Power etc. besides State Generation/Hydro Power Corporations are expected to make presentations during the Conference.

CALL FOR CASE STUDIES

Experts who desire to participate for making presentations/case studies on the above subject are requested to furnish the write-ups to reach CBIP office latest by 10th August 2017.

WHO SHOULD ATTEND

The Conference will be of special interest to the executives involved in hydropower development from Power Utilities/ Corporations, SEBs, State Govts., IPPs, Energy Planners, Private Entrepreneurs, Developers, Manufacturers, Consultants, Construction Companies, Industry Associations, Technical & Training Institutions etc.

REGISTRATION FEE

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

Delegate Name : _____
Designation : _____
Organization : _____
Mailing address : _____
Phone/E-mail : _____

The registration fee for attending the Conference is given below:

(i) Rs. 12,000/- per participant. (ii) Rs. 10,000/- per participant for members of CBIP, CIGRE, AARO and SPE.

GST as applicable extra.

The Conference is non-residential. The Conference timing will be 10.00 AM to 5.00 PM on both the days. The registration will start at 9.00 AM on 22 August 2017 at the venue of the Conference.

Registration fee shall cover the registration kit, and Tea/ coffee / lunch during the Conference. 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

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