

# Marching Ahead

## **B.B.M.B. marches ahead with renovation, modernization & uprating of Bhakra Power Houses**

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Each Generating unit of Bhakra Left Bank Power House is having original designed capacity of 90 MW. These were subsequently up-rated to 108 MW and is being uprated from 108MW to 126 MW. The present Generation capacity of this Power House is 540 MW (5X108 MW) is now being up-rated to 630 MW (5X126 MW). The contract of Renovation, Modernization & uprating has been awarded to M/s Sumitomo Japan, M/s Hitachi, Japan & M/s Andritz, Austria for the approximate cost of Rs. 490 Crores. R,M & U of 5 Nos. Units is being done in systematically manner and shall be completed by April/May,2020.

## **Supervisory Control and Data Acquisition (SCADA) System**

BBMB is in process of extending local SCADA of all the generating units at Bhakra (L) Power House to BBMB, SLDC, Chandigarh, which would enable Remote Monitoring and Control of generating units besides allowing the following operations:-

- The start/stop sequence of the Generating Unit can be remotely executed from BBMB SLDC, Chandigarh which shall result in proper monitoring of operations.
- All the parameters of Generating Unit available at respective Power Plants shall also be available at BBMB SLDC which will result in the enhanced monitoring of the generating unit as per the system requirement.

## **Effects of Climate Change**

To understand the effects of climate change on our reservoir inflows BBMB has created a Climate Change Cell, to study the effect of changing climate on the catchments & to make projections for future scenario.

## **Finite Element Analysis of Bhakra Dam**

The Finite Element Analysis of Bhakra Dam is being carried out with the help of Central Water Commission, New Delhi. The Central Water Commission team has recently visited Bhakra Dam for this purpose. The mathematical (2D and 3D) model is being developed using latest software. The expected output of model will be as under:

- i) The maximum permissible deflection of Bhakra Dam at different locations and its comparison with the present values.

- ii) The maximum permissible stresses/settlement at the toe of dam and its comparison with the present values.
- iii) The effect on dam, if filled, upto its top in the event of passing high floods (PMF).

### **Video Conferencing in BBMB Schools**

BBMB is going to provide Video conferencing facilities in Sr. Secondary Schools under its administration at Nangal, Sundernagar and Talwara. This will provide exposure to students to the latest available education facilities.

### **Solar Power Plant**

As a part of its contribution to Renewable Energy initiatives of Ministry of New & Renewable Energy, Govt. of India, BBMB is installing roof top Solar PV plants, Ground Mounted Solar PV plant and floating Solar PV plant at Nangal.

### **Modern Trends in the field of Transmission System**

BBMB has taken up the work of conversion of all its conventional sub-station gradually into remote operated ones. Work of providing Sub-station Automation System alongwith remote control in respect of BBMB sub-stations located at Hisar, Charkhi-Dadri, Ballabgarh and Samaypur has already been initiated.

### **Tree Plantation**

Plantation in catchment area in big way. 5 to 6 lakh trees are to be planted in the catchment area so that our reservoir get protected from the inflow of silt. It will also help to protect environment and increase Green Belt of the country. BBMB is procuring seeds & preparing plants in their Poly Houses for their mission. We will also donate plants to local plots and Mahila Mandal as per their requirement.

### **Information Technology ( I.T.) Initiative**

BBMB is going for I.T. solution by Implementing Enterprise Resource Planning (ERP) in the near future.