

MANGDUM SANGRA HYDROELECTRIC PROJECT (19 MW)

MANGDAM SANGRA HYDROELECTRIC PROJECT

CLIENT:

Jammu & Kashmir State Power Development Corporation Limited

LOCATION:

Kargil, Jammu & Kashmir



SCOPE OF SERVICES:

AEMPL has been engaged to provide Engineering Consultancy Services for preparation of Detailed Project Report for Mangdum Sangra HEP, Kargil as per the guidelines of Alternate Hydro Energy Centre, Ministry of New and Renewable Energy, Government of India

PROJECT DESCRIPTION:

Mangdum Sangra Hydro Electric Project has been contemplated as a run of the river scheme situated in the Kargil district of Jammu & Kashmir. The barrage site is located on River Suru. The Project will utilize a gross head of 82.76 m and design discharge of about 27.70 cumecs for generation of 19 MW.

The Project comprises a 10 m high barrage, a rectangular fore-bay type power intake on the left bank, Surface de-silting basin, 4.0 m diameter horse shoe shaped head race tunnel of length 2.8 km, circular surge shaft of 10 m diameter & height 54 m, a single 358 m long 3.10 m diameter pressure shat/buried penstock, a surface power house on the left bank of River Suru housing 2 units of 9.5 MW. A 60 m long tail race channel conveys back into River Suru after power generation.

The following works have been completed by M/s Aquagreen Engineering Management Private Limited for Mangdum Sangra HEP

- Site survey and investigations.
- Review of the PFR prepared by JKSPDCL.
- Review the Construction & Equipment Planning.
- Preparation of Detailed Project Report as per AHEC/MnRE guidelines including study on alternatives
- EIA/EMP report for availing NOC from State Pollution Control Board
- Mathematical Modeling of the Reservoir Sedimentation