PROJECT DESCRIPTION SHEET –

NIMU CHILLING HYDROELECTRIC PROJECT (24 MW)

NIMU CHILLING HYDROELECTRIC PROJECT

CLIENT:

Jammu & Kashmir State Power Development Corporation Limited

LOCATION:

Leh, Jammu & Kashmir

SCOPE OF SERVICES:

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

PROJECT DESCRIPTION:

Nimu Chilling Hydro Electric Project has been contemplated as a run of the river scheme situated in the Leh district of Jammu & Kashmir. The barrage site is located on River Zanskar just before its confluence with the mighty Indus River. The Project will utilize a gross head of 45 m and design discharge of about 59 cumecs for generation of 24 MW.

The Project comprises a 14.5 m high barrage, a rectangular fore-bay type power intake on the left bank, 5.6 m diameter horse shoe shaped head race tunnel of length 8.9 km, circular surge shaft of 22 m diameter & height 39.5 m, a single 200.0 m long 4.0 m diameter pressure shat/buried penstock, a surface power house housing 3 units of 8 MW. A 24 m long tail race channel conveys back into the existing reservoir of Nimo Bazgo HEP after power generation.

The following works have been completed by M/s Aquagreen Engineering Management Private Limited for Nimu Chilling 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
- Site specific seismic parameter studies by IIT-Delhi
- Mathematical Modeling of the Reservoir Sedimentation