

DURBUK SHYOK HYDROELECTRIC PROJECT (19 MW)

**DURBUK SHYOK 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 Durbuk Shyok HEP, Leh as per the guidelines of Alternate Hydro Energy Centre, Ministry of New and Renewable Energy, Government of India

**PROJECT DESCRIPTION:**

Durbuk Shyok 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 Shyok Gong/Tnagtse Nala which is the left bank tributary of the Shyok River. The Project will utilize a gross head of 221.5 m and design discharge of about 12 cumecs for generation of 19 MW.

The Project comprises a 12 m high barrage, a rectangular fore-bay type power intake on the right bank, 3.0 m diameter horse shoe shaped head race tunnel of length 5.2 km, circular surge shaft of 6 m diameter & height 65.15 m, a single 940 m long 1.75 m diameter pressure shaft/buried penstock, a surface power house on the left bank of River Shyok housing 2 units of 9.5 MW. A 75 m long tail race channel conveys back into River Shyok after power generation.

The following works have been completed by M/s Aquagreen Engineering Management Private Limited for Durbuk Shyok 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