

PROJECT DESCRIPTION SHEET – 24 MW BHILANGNA-IIB SMALL HYDROELECTRIC PROJECT

BHILANGNA-IIB SMALL HYDROELECTRIC PROJECT

CLIENT:

UJVN Limited,
Uttarakhand.

LOCATION:

Tehri Garhwal District,
Uttarakhand.

SCOPE OF SERVICES:

AEMPL engaged to provide Engineering Consultancy Services for the Review and Preparation of Detailed Project Report of Bhilangna-IIB Small Hydroelectric Project.

PROJECT DESCRIPTION:

Bhilangna-IIB SHEP is being developed by UJVN Limited, a Government of Uttarakhand enterprise. The project is proposed as a run-of-river scheme on the river Bhilangna in Tehri Garhwal District of Uttarakhand.

The project envisages construction of an ungated ogee weir across Bhilangna River to divert 24.93 cumecs flow into a water conductor system comprising Head Race Tunnel of size 3.5m, Horse-shoe shaped and 2.07km long; Surge Shaft of 11.0m dia and 38m high; Pressure Shaft of 2.8m dia and 62m long, Buried Penstock of same size and about 247m long, Branch Penstock of 1.6m dia and 35m long each and a surface Power House of size 45m (L) x 12.5m (W) x 27.0m (H) housing total three generating units of horizontal axis Francis Turbines. The flow after generation shall be diverted into River Bhilangna through a 6m wide tail race channel.

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