

# PROJECT DESCRIPTION SHEET – 2 X 1.5 MW CHATTEN HYDROELECTRIC PROJECT

## CHATTEN SMALL HYDROELECTRIC PROJECT

### CLIENT:

M/s N.T Lachenpa, Govt. Contractor, Sikkim Power Development Corporation Limited (SPDCL)

### LOCATION:

Chatten Village, North District, Mangan, Sikkim



### SCOPE OF SERVICES:

AEMPL engaged to provide Engineering Consultancy Services for Chatten Small Hydro Power Project which includes the following components detailed design and preparation of construction drawings. They are

1. Trench Weir
2. Intake Structure
3. De-silting Tank
4. Surge Shaft
5. Y-Junction Penstock
6. Power House

### PROJECT DESCRIPTION:

Chatten Small Hydro Electric Project has been contemplated as a run of the river scheme situated in the Chatten Village, Mangan District, North Sikkim. The trench weir is located across Chyagachu River. The Project would utilize a net head of 258.74 m and design discharge of 1.5 Cumecs for generation of 3 MW.

The Project comprises of trench weir, 1 No. of intake channel along with De-silting arrangement on right bank of Chyagachu River, one number of head race pipe of 800mm (ID), 4m diameter surge tank, 1 no. of 429m long main surface penstock which bifurcates into two numbers of 40m long branch penstock, Surface power house housing 2 units of 1.5 MW and 1 No. of 1.5 (W) x 1.2 (H) m rectangular-shaped, 110m long Tail Race Channel.