

## PROJECT OVERVIEW & INSTITUTIONAL ARRANGEMENT

This monthly progress report covers a progress status of the project and work accomplished upto **Chaitra, 2081**. It represents all the key information of the project activities that have been implemented so far in the project. In order to ensure the project was achieving its intended goals and objectives, the interventions were carried out with their corresponding outputs and indicators in this report.

Buku Kapati Hydropower Project is a run-of-river project located in Goli-03 of Okhaldhunga and Solukhumbu district. The project site is located approximately 200km North of Kathmandu and 38km south from Jiri. The project comprises of diversion weir with Undersluice, intake & gravel trap, approach canal, spillway arrangements followed by settling basin, headrace tunnel, surge-tank followed by penstock pipe and powerhouse, tailrace canal and switchyards. The generated power will be connected to 33/11kV Banti Sub-station. The company has to construct 6 km long 33 kV transmission lines from powerhouse to the Banti substation.

The project's comprises of two headworks; one at Buku Khola at an elevation of 1845.00mash other at Kapati Khola at an elevation of 1907.40 to meet the discharge requirement during dry season. Headworks site and Powerhouse site is located at Bhusinga VDC. The 7 km access road from Goli (Solukhumbu) to headworks site and 5 km from headworks to Powerhouse has been completed.

### salient features

The salient features of the project, Buku Kapti Hydropower Project, has been presented hereunder.

Type of Project:	Run-of-water
Districts:	Solukhumbu and Okhaldhunga
River:	Buku Khola and Kapti Khola
PPA:	2074/10/11
Generation License Approval:	2074/05/14
Maturity of License:	2021/05/07
Headrace pipe material:	Steel
Penstock Pipe Material:	Steel
Powerhouse:	Surface
Powerhouse Dimension:	33mX15mX12m (LXBXH)
Turbine:	Horizontal Axis Pelton
No. of Units:	Two
Unit Discharge:	1.20m <sup>3</sup> /s
Rated Efficiency:	90%
Generators (No. of Units):	Two
Type:	Synchronous 3 Phase
Efficiency:	97%
Transformer :	
Phase:	Three
Voltage Level:	11kv/33kv
Type:	Outdoor
Transmission Line Voltage:	33kv

Length:	11 Km up to Bampti Bhandare (Being Constructed by NEA)
Installed Capacity:	5,000 KW
Annual Dry Energy:	8.6073 GWh
Annual Wet Energy:	19.8470 GWh
Annual Energy:	28.124 GWh