



Ghunsa Khola Hydroelectric Project (77.5 MW)



Background

GKHEP developed by Remit Hydro Limited (RHL), represents a Run-of-the-River (RoR) hydropower scheme designed to harness the potential of Ghunsa Khola. The project is in the Taplejung District with installed capacity of 77.5 MW and total annual energy generation of approximately 460 GWh. This Hydropower Project has achieved a significant milestone by securing the License for Production of Electricity, Environment clearance and the PPA (being finalized). The project benefits from a well-established network of access roads, including the 242 km HO-7 highway leading to Phungling Bazaar and the North-South Olangchungola road, further enhanced by RHL's construction of two Bailey bridges at Ranipul and Handrung (in Tamor River), ensuring seamless accessibility to the project site and its powerhouse.



Sector:
Hydropower



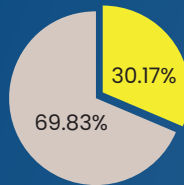
Location:
Taplejung district,
Koshi Province



Land Required:
34.5 hectares

Salient Feature:

- Scheme: Run of River (RoR)
- Installed Capacity: 77.5 MW
- Energy: 459.04 GWh



■ Wet Energy: 320.51 GWh
■ Dry Energy: 138.53 GWh

Features/ Components

- Diversion weir (32m wide)
- Two side intakes
- Two radial gates under sluices, each measuring 3.5m x 4.5m
- Two connecting tunnels, 3.10 x 3.10 meters, with lengths of 153.50m and 120.70m
- Two desilting chambers, each 62m long and 11.5m wide
- 4.208 km-long headrace tunnel guiding flow towards power generation unit
- Powerhouse cavern with Pelton turbines and generators
- 55.6m high surge shaft for pressure regulation

Project Outcome



Ensuring Energy Security



Achievement of Sustainable Development Growth and Green Growth



Promote Tourism and Development



Enhancing local infrastructure, including access roads & bridges

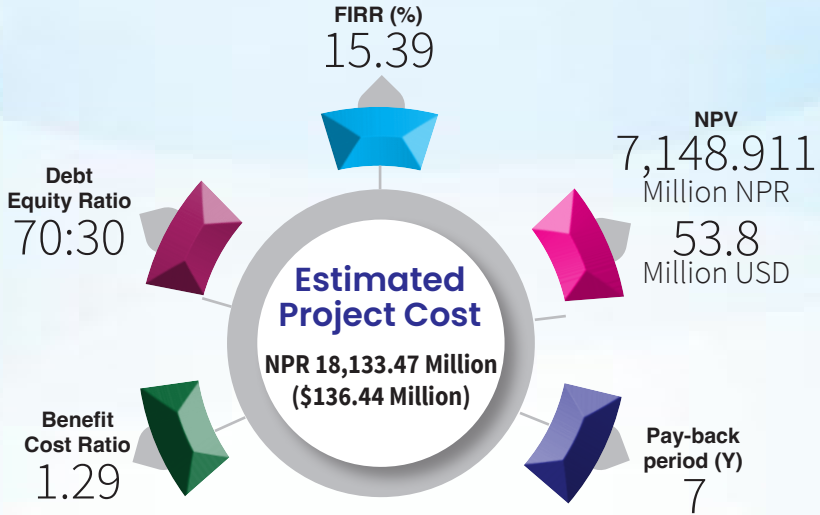


Increment in local economic ventures



Employment Opportunities

Financial Indicators



Note: 1 USD = NPR 132.9

Project Modality & Requirement



Public
Private
Partnership
(PPP model)

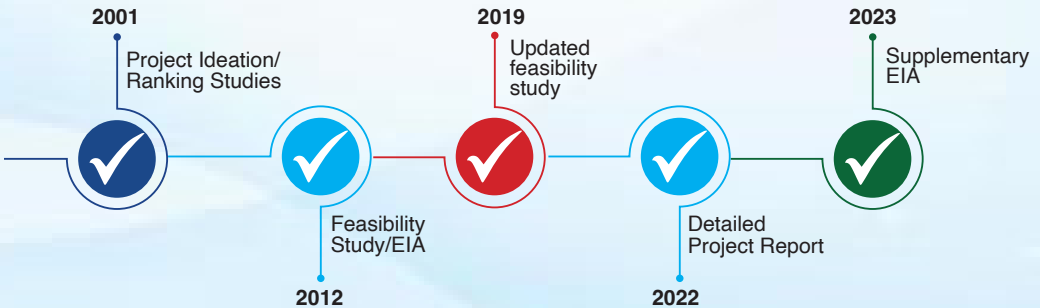
Build
Own
Operate
Transfer
(BOOT)

Project Seeking Finance

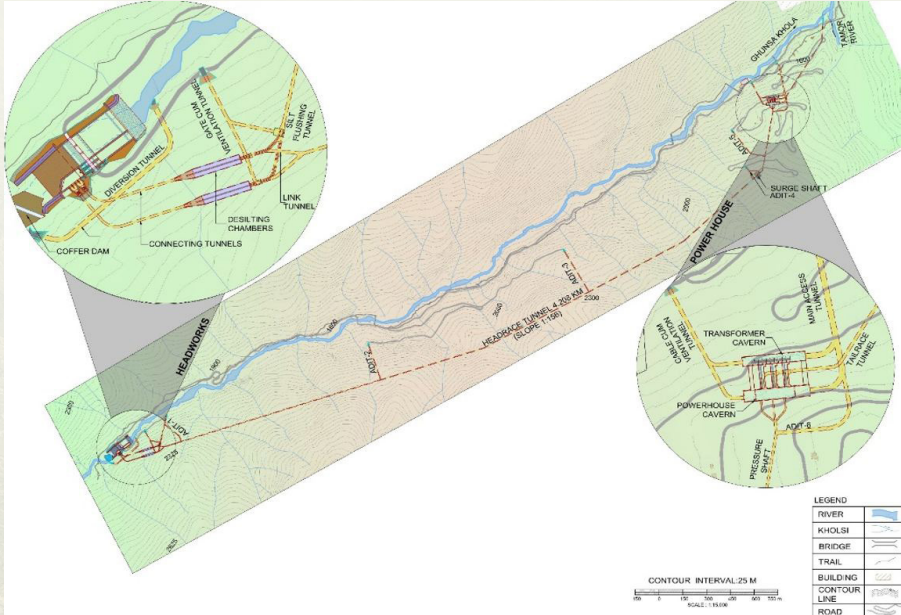


Seeking lenders to finance 70% of the total project cost as a debt

Project Implementation Timeline



Project Layout



Ghunsa Khola HEP Project Layout

Relevant Agencies

- Nepal Electricity Authority (NEA)
- Hydroelectricity Investment and Development Company Limited (HIDCL)
- Vidyut Utpadan Company Limited (VUCL)
- Remit Hydro Limited (RHL)

About the Agency

Agency: Remit Hydro Limited

Remit Hydro Limited, as the project owner, leads innovation in Nepal's hydroelectric sector, reflecting the government's vision for diversified investments and expanded opportunities. By developing projects like GKHEP, RHL supports national goals of GDP growth and sustainable development, aiming to empower local communities and ensure energy security. Through strategic infrastructure investments, RHL fosters economic stability and aligns with Nepal's aspirations for energy independence. GKHEP's integration into the "Janatako Jalawidhyut Karyakram" underscores its significance in Nepal's energy strategy and its potential for socio-economic development. RHL remains committed to reshaping the energy landscape, driving progress, and securing a prosperous future for Nepal.

Website: <https://remithydro.org.np/>
Email: info@remithydro.org
Phone: +977-01-4581780

