



Chepe A Hydropower Project (7 Mw)



Connecting Location/Transmission:

- Option I : Chipleti (33 kv-5km) (Under construction)
- Option II : Paluntar (33 kv-10 km)
- Option III : Balekhu (132 kv-7 km) (Under process)

Project Management Team

- 1. Er. Hari Ram Parajuli**, PhD, Post Doc : Chairman
More than 22 years of experience in the field of Civil / Structural Engineering, Life Line Risk Management.
- 2. Mr. Tuk Pd Neupane** : Managing Director
More than 22 years of experience in the field of Mechanical Engineering & Heavy Equipment Business
- 3. Er. Tilak Raj Bhattarai** : Director
More than 23 years of experience in the field of Hydropower Engineering
- 4. Er. Shyam Thapa** : Director
More than 23 years of experience in the field of Civil / Structural Engineering
- 5. Er. Rameshwar Lamichhane** : Director
More than 25 years of experience in the field of Procurement / Contract Management, Project Management
- 6. Er. Laxman Aryal** : Director
More than 18 years of experience in the field of Hydropower Engineering

Project Status

- ✓ Power Purchase Agreement (PPA) : Signed.
- ✓ Initial Environmental Examination (IEE) : Approved
- ✓ Land acquisition : Completed
- ✓ Detail design : Completed
- ✓ Access road construction : Under process
- ✓ Camp house : Under process
- ✓ Tendering and selection of contractor : Under process
- ✓ Financial closure : Under process

Connection Date : July 20, 2022

Bank Information

- 1.** A/C Name : Champawati Hydropower Pvt. Ltd.
Bank : Everest Bank Limited
Bank Branch : Balaju, Kathmandu
A/C No. : 02000105200469
- 2.** A/C Name : Champawati Hydropower Pvt. Ltd.
Bank : NIC Asia Bank
Bank Branch : Thapathali, Kathmandu
A/C No. : 5441496653524001



चम्पावती हाइड्रोपावर प्रा.लि.
CHAMPAWATI HYDROPOWER PVT. LTD.

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Background

Champawati Hydropower Pvt. Ltd. (CHPL) is a power sector development company having the distinction setting up of its first small hydropower project named Chepe A Hydropower Project (Chepe A HPP) in Chepe River which borders Gorkha and Lamjung Districts. The company was established in 2010 A.D.

CHPL has set sights on achieving operational power generation capacity of 7 MW by July 2022. This would go for more power development once the Company forays into development of medium hydropower projects.

Project Features

1. Project Details

Development region	: Western Development Region
District	: Gorkha and Lamjung District
Water source	: Chepe Khola
Type of scheme	: RoR
Gross head	: 91 m
Design discharge	: 10.0 m ³ /s
Install capacity	: 7 MW
Annual energy	: 39.3 GWh (Dry-11.8, Wet-27.5)

2. Hydrology

River	: Chepe Khola
Catchment area	: 189.00 km ² (at Intake)
Design flood	: 674 m ³ /s (at intake - 100 years)
Environmental flow	: 0.28 m ³ /s



Project Management & Design Discussion



Public Meeting

3. Headworks	:	Free flow weir
4. Connecting Canal	:	155 m RC closed conduit
5. Desilting Basin	:	RC rectangular, 4 bays
6. Headrace Pipe	:	2.3 m dia., 3250m welded MS
7. Surge Tank	:	Circular concrete lined
8. Penstock Pipe	:	1.9 m dia., 400m welded MS
9. Power House	:	Surface & out door substation
10. Tail Race	:	Rectangular
11. Turbine	:	2 Nos Francis
12. Generator	:	2 Nos synchronous, 3-phase

Project Access Route

Route 1 (Powerhouse site)	Paluntar - Harmi-Pandebesi (31 Km)
Route 2 (Headwork site)	Dhamilikuwa - Bolangkhol - Kuyele (40 Km)
Route 3 (Powerhouse site)	Paluntar - Nayabazzar - Thalajung - Pandebesi (30 Km)

13. Financial Analysis

Project cost with IDC (NRs)	:	1,310,000,000
Loan equity ratio	:	70:30
Loan interest rate	:	11%
Internal Rate of Return (IRR)	:	15.2%
Return on Equity (RoE)	:	21.2%
Simple payback period	:	5.9 yrs
Discounted payback period	:	9.4 yrs
B/C ratio	:	1.37
Debt service coverage ratio	:	1.75
Cost per kilowatt (\$1 = NRs 115)	:	1623.00

Why to invest in this project ?

- ✓ Easy access
- ✓ Easy to construct
- ✓ Good financial indicators
- ✓ Attractive project



PPA Signing Ceremony