



# Tiptyang Hydroelectric Project

Hydro Support Pvt. Ltd.



# BACKGROUND

The Tiplyang Kaligandaki Hydroelectric Project, situated on the Kaligandaki River in Myagdi District, consists of two upstream projects: the Middle Kaligandaki HEP (66.3 MW) and Mistri 2 HEP (12 MW), forming a combined cascade. Its goal is to harness the river's energy potential to generate electricity for Nepal's national grid, aiming to enhance the country's energy security and meet growing electricity demand. The project's cascade configuration optimizes power generation by utilizing tailwater from both upstream projects. With agreements secured for power purchase and grid connection with Nepal Electricity Authority, it ensures the sale and transmission of electricity generated. Besides addressing Nepal's need for additional power generation capacity, the project contributes to environmental sustainability, reduces reliance on imported electricity and fossil fuels, and fosters local socio-economic development through employment opportunities and infrastructure improvement.

## RELEVANT AGENCIES

- Investment Board Nepal
- Nepal Electricity Authority
- Ministry of Forest and Environment
- Provincial Ministry of Physical Infrastructure Development  
*Gandaki Province*

# FEATURES / COMPONENTS

## LICENSES AND AGREEMENTS

The project has obtained essential licenses and agreements from the Department of Electricity Development (DoED)/Ministry of Energy, including Survey License, Generation License, and Power Purchase Agreement (PPA) with Nepal Electricity Authority (NEA).

## DETAILED DESIGN AND APPROVAL

Detailed design and feasibility studies have been conducted, ensuring the project's technical and environmental feasibility. Environmental Impact Assessment (EIA) has been completed and approved by the Ministry of Forest and Environment.

## GRID CONNECTION

A connection agreement has been secured for the evacuation of generated energy into the national grid, ensuring efficient distribution and utilization of electricity across Nepal.

## CONSTRUCTION TIMELINE

Construction of the project is scheduled to commence in 2024, with the aim of achieving commercial operation by 2029. The project adheres to a set timeline and milestones to ensure timely completion and operation.



# BENEFITS



## Job Creation

During the construction phase, the project creates employment opportunities for local communities, including laborers, engineers, and technicians. Additionally, once operational, the project provides long-term employment opportunities in maintenance, operation, and administration.

## Infrastructure Development

The construction of the hydroelectric project requires the development of infrastructure such as roads, bridges, and transmission lines, which not only supports the project but also improves accessibility and connectivity in the region, benefiting local communities.

## Regional Development

The construction and operation of the project stimulates economic activity in the region, creating opportunities for local businesses, suppliers, and service providers, and attracts investment in infrastructure and tourism.

## Energy Stability

The project will enhance the stability and reliability of Nepal's energy supply, reducing the risk of power outages and blackouts and providing a consistent source of electricity for domestic and industrial consumers.

## FINANCIAL INDICATORS

Estimated Project Cost (NPR)
Project IRR (%)
Pay-back period (years)
Discounted pay-back period (years)
Debt to Equity Ratio
Loan Interest Rate (%)
Net Present Value (NPV)(‘000 NPR)
Debt Service Coverage

Work in Progress ( WIP)  
Yet to be finalized.

# PROJECT IMPLEMENTATION MODALITY

The project will be developed through private investment along with foreign investment.



## PROJECT IMPLEMENTATION TIMELINE

- **Survey License acquired**  
*2070.12.28 B.S.*
- **Generation License**  
*BS 2079/03/05 (as 58MW) License  
upgraded to 86 MW from 58MW: BS 2079/12/23*
- **Grid Connection Agreement**  
*2075.09. 02 B.S. (17 December 2018 A D)*
- **EIA Study**  
*BS 2078-12-09*
- **Detailed Project Report (DPR)**  
*Prepared by Feedback Infrastructure Services Nepal Ltd. (May 2018)*
- **Updated Feasibility Study/ Detailed Design**  
*Prepared by Hydro Tunnelling and Research Pvt. Ltd. on going*
- **Power Purchase Agreement (PPA)**  
*2080.05.10 B.S. (5 September 2023 A D)*

## ABOUT THE AGENCY

Hydro Support Private Limited (HSPL), backed by Nepal's IME Group, was registered under Nepal's Company Act in January 2008. Tiblyang Kaligandaki Hydroelectric Project (86 MW) is among the projects developed by HSPL.

### Vision:

To be a leading force in Nepal's renewable energy sector, driving innovation in hydropower development and contributing to the nation's energy independence and sustainable development goals.

### Mission:

To utilize Nepal's hydroelectric potential for generating clean and sustainable energy, meeting the increasing demand for electricity, fostering economic growth, and promoting environmental stewardship.

### Objective:

To develop and operate sustainable hydropower projects, addressing Nepal's energy requirements and creating employment opportunities in local communities.

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