



Middle Kaligandaki Hydroelectric Project (66.3 MW)

Hydro Support Pvt. Ltd.



BACKGROUND

The Middle Kaligandaki Hydroelectric Project, located in Myagdi district, Nepal, has a capacity of 66.300 MW and spans three key sites: Headworks at Suke Bagar, Water Conveyance System along the Kaligandaki River, and Powerhouse at Pokhare Bagar. Its primary objective is to utilize the river's hydroelectric potential for clean and renewable energy generation, aiming to enhance Nepal's energy security and meet regional electricity demands. By leveraging abundant water resources, the project reduces reliance on imported energy, promotes domestic production, and improves energy access, particularly in remote areas. Aligned with Nepal's vision for economic growth and poverty reduction, it establishes a foundation for long-term energy sustainability and resilience.

RELEVANT AGENCIES

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

FEATURES / COMPONENTS

HEADWORKS

Located at Suke Bagar, Annapurna Rural Municipality, this site serves as the point where water is diverted from the Kaligandaki River into the project's system. It typically consists of intake structures, Diversion weir with under sluices, approach canal/ culvert and Desilting Basin.

POWERHOUSE SITE

Situated at Pokhare Bagar, Annapurna Rural Municipality, The powerhouse accommodates three electricity generating units consisting of Turbines, Generators and accessories & panels.

ENVIRONMENTAL MITIGATION MEASURES

The project includes measures to mitigate potential environmental and social impacts through environmental management plan (EMP).

WATER CONVEYANCE SYSTEM

This system generally conveys clean water to the generating units in the powerhouse for electricity generation. It consists of horseshoe-shaped tunnel, surge shaft, vertical shaft, penstock etc.

SAFETY MEASURES

The project keeps safety of people and environment in its priority and implement different safety measures, including emergency response plans, warning systems, and dam safety protocols to ensure the protection of both project workers and nearby communities.



BENEFITS



Economic Development

By generating electricity, the project stimulates economic growth through job creation, investment opportunities, and increased revenue generation for the government.

Regional Development

The construction and operation of the project stimulate economic activity in the region, creating opportunities for local businesses, suppliers, and service providers, and attracting 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.

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.

Increased Energy Supply

The project will contribute to Nepal's energy security by adding significant capacity to the national grid, reducing dependence on imported fossil fuels and mitigating the risk of energy shortages.

Project Outcome

The project will generate about 407 GWh of electricity annually, out of which dry energy is about 130 GWh and wet energy is 277 GWh. The total revenue generation is about 2,422 million NPR annually.

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**
2070/07/15 BS
- **Generation License**
2076/01/15 BS
- **Grid Connection Agreement**
2075/11/30 BS
- **EIA Study**
2076/03/09 BS
- **Feasibility Study/ Detailed Project Report (DPR)**
2017/06 BS
- **Power Purchase Agreement (PPA)**
2080/03/06 BS
- **Detailed Design**
2024/01 BS
- **Required Commercial Operation Date (RCOD)**
2085/03/07 BS

ABOUT THE AGENCY

Hydro Support Private Limited (HSPL) is a company promoted by a well-known conglomerate business house of Nepal IME Group and registered under the company act of Nepal. The IME Group has a wide range of business activities such as banking, green energy/hydropower, tourism, auto mobile etc. The Company is Incorporated under the Companies Act 2006 in 2008 with the objectives of carrying out hydroelectric business generating power from renewable sources for sustainable and affordable clean energy supply.

Vision: HSPL will contribute meaningfully to Nepal being a prosperous nation through the development of clean and renewable energy.

Mission: Our mission is to endeavor to provide the highest returns to its shareholders by developing hydro power as well as other energy related businesses.

Objectives: Our objective is to promote, develop/acquire renewable energy projects in an efficient, responsible and sustainable manner to optimize stakeholder's value.

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