



# Budhigandaki Corridor (Philim – Gumda – Ratamate) 400 kV Transmission Line Project



## Background

The proposed Budhigandaki Corridor (Philim -- Gumda – Ratamate) 400 kV Double Circuit Transmission Line Project lies in Dharche Rural Municipality, Sulikot Rural Municipality, Ajirkot Rural Municipality and Aarughat Rural Municipality of Gorkha District of Gandaki Province, Tripura Sundari Rural Municipality and Nilkantha Municipality of Dhading District and Tarkeshwar Rural Municipality and Belkotgadhi Municipality of Nuwakot District of Bagmati Province. The project connects various hydropower projects along the corridor to Gumda and Ratamate hub substations, including Budhigandaki Storage Hydropower Project and others, facilitating their timely contribution to the national power supply.



**Sector:**  
Energy



**Location:**  
Gotkha, Dhading and  
Nuwakot districts



**Land Required:**  
396.4 hectares

## Objectives

To enhance power evacuation from the Budhigandaki and Daraudi river corridors, improving transmission efficiency, reducing losses, and ensuring reliable electricity supply.

### Salient Feature:

- Length: 85.06 Km
- Number of Circuits: 2 (Double)
- Conductor: ASCR "Quad Moose"
- No. of Towers: 254
- Average Span: 335.023 m
- Starting Point: Philim Substation
- Ending Point: Ratamate Substation

### Substation Component:

Bay extension at Ratamate Substation and newly proposed substation at Pokhatar (Gumda)

Location: Gumda  
Land Required: 9.16 hectares

### Objectives

Ratamate substations bay extension will be carried out while new 400/132 kV GIS substation at Pokhatar (Gumda) will be constructed.

### Salient Features:

- 400 kV/132 kV GIS

## Project Outcome



Increase in Electricity  
Distribution in the National Grid.



Reliable flow of electricity to  
facilitate the demands in the  
Valley



Increase in financial activities  
in the project area.



Employment opportunities  
for the locals

## Financial Indicators



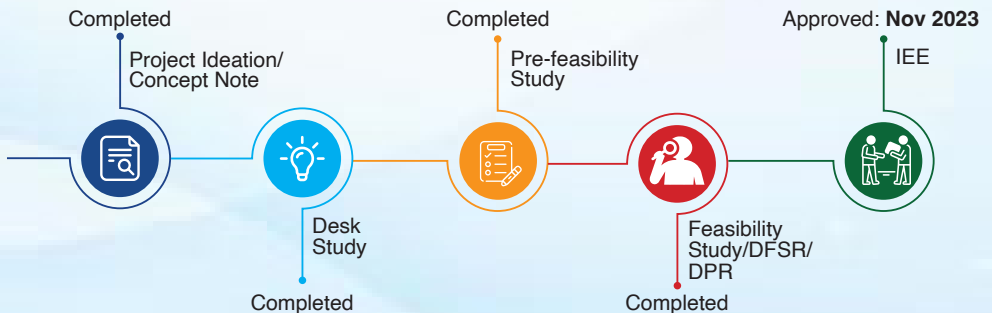
## Financing Requirements

### Project Seeking Finance

Project Financing Plan		
Source	Amount (Million USD)	Share of Total (%)
Equity (GoN and NEA)	32.75	20.00%
Remaining for Lending	131.00	80.00%

Seeking lenders to finance 80% of the total project cost as a debt.

## Project Implementation Timeline



# Project Layout

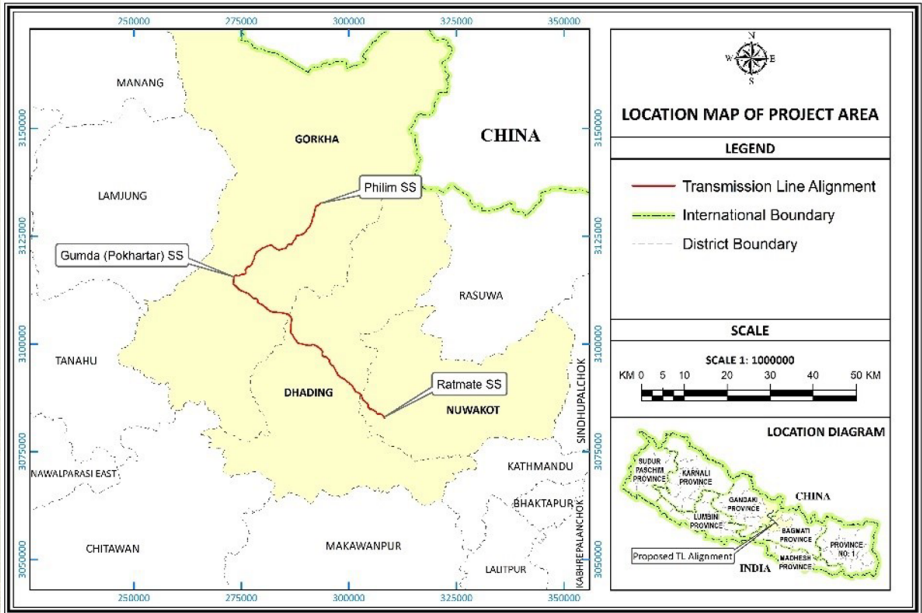


Fig1. project layout

## Relevant Agencies

- Ministry of Energy, Water Resource and Irrigation (MoEWRI)
- Nepal Electricity Authority (NEA)

## About the Agency

### Nepal Electricity Authority (NEA):

The Nepal Electricity Authority (NEA) is Nepal's government-owned utility overseeing electricity generation, transmission, distribution, and sales. It aims to provide reliable, affordable, and sustainable energy solutions, fostering national development and enhancing citizens' lives. Its mission is to ensure reliable electricity supply, promote renewables, and maintain environmental sustainability. Its objectives include expanding access, improving infrastructure, promoting renewables, driving economic growth, ensuring equitable distribution, and fostering transparent operations. It is pivotal in Nepal's energy sector for sustainable development.

Website: [nea.org.np](http://nea.org.np)

Phone no.: +977-1-4153051, +977-1-6618170, 9851126700

Email: [info@nea.org.np](mailto:info@nea.org.np), [atksd400kv@nea.org.np](mailto:atksd400kv@nea.org.np), [atksd400kv@gmail.com](mailto:atksd400kv@gmail.com)

