



Dukuchhap – New Teku 220 KV

Transmission Line Project



Background

The proposed Dukuchhap – New Teku 220 kV Transmission Line Project shall start from Dukuchhap 220/132/11 kV substation to New Teku 220/132 kV substation. The line consists of 220 kV multi circuit Monopole upto Maranchuli, bifurcation point of 220 kV double circuit. Lattice structure transmission line from Matatirtha 220 kV substation. The line then proceeds to New Teku substation through 220 kV double circuit Monopole. The entire line route follows the Bagmati corridor.



Sector:
Energy



Location:
Kathmandu and
Lalitpur districts

Objectives

Improve reliability and capacity of Kathmandu Valley's power transmission infrastructure to meet increasing electricity demand and ensure uninterrupted supply.

Salient Feature:

- Length: 12.7 Km (510 m underground section and about 12.2 km overhead section)
- No. of Tower: 57
- No of Circuits: Multi/Double
- Conductor: Twin Moose
- Starting Point: Dukuchhap Substation
- Ending Point: New Teku Substation

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

**Estimated
Project Cost**

**\$ 75.38
Million**



**Debt to Equity
Ratio**
80:20

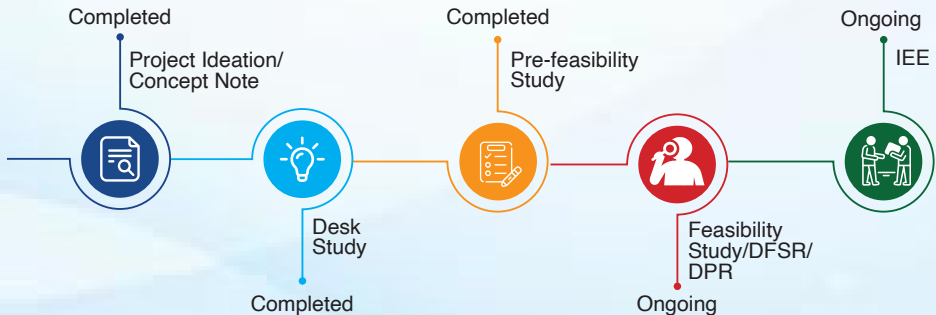
Financing Requirements

Project Seeking Finance (Debt Finance)

Project Financing Plan		
Source	Amount (Million USD)	Share of Total (%)
Equity (GoN and NEA)	15.08	20.00%
Remaining for Lending	60.30	80.00%

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

Project Implementation Timeline



Project Layout

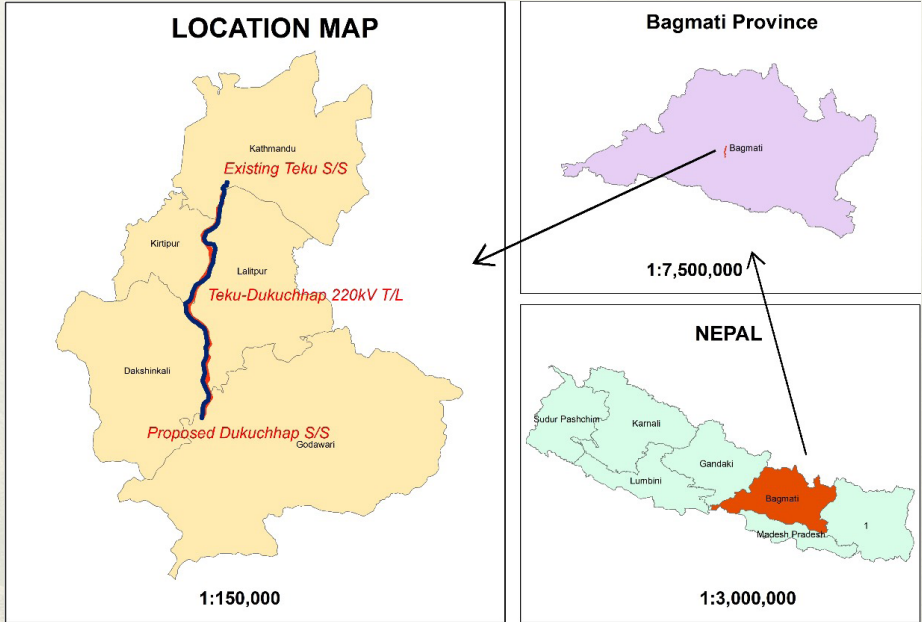


Fig1. project layout

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.

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