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# RASTRIYA PRASARAN GRID COMPANY LIMITED

(AN UNDERTAKING OF GOVERNMENT OF NEPAL)



THE ELECTRICITY HIGHWAY: ROAD TO NEPAL'S PROSPERITY

# About RPGCL

Rastriya Prasaran Grid Co. Ltd. (RPGCL) was established on 28 Asar 2072 (13 July 2015) under the Companies Act 2063 by the Government of Nepal (GoN) as part of a comprehensive power sector reform initiative. RPGCL is entrusted with the mandate of functioning as an independent Transmission System Operator (TSO) to ensure the development, expansion, operation, and management of the country's high-voltage electricity transmission system.

RPGCL's establishment is a key milestone under Nepal's power unbundling policy, aimed at enhancing the efficiency, transparency, and accountability of the electricity transmission sector.



## VISION

Empowering economic development of the country by providing reliable transmission services through the development of robust and efficient power grid.



## MISSION

To be world class transmission company ensuring adequate power network with economic transmission access in the country.



## OBJECTIVES

- Construct, expand & modernize the Transmission system to wheel 40 GW power (By the year 2040).
- Construct the full functional Load Dispatch Center.
- Acquire all High Voltage (400kV and 220 kV) Transmission Assets of NEA.

CEO Er. Sagar Shrestha receives the appointment letter and takes the Oath of Secrecy from Honorable Minister of Energy, Water Resources, and Irrigation, Mr. Dipak Khadka, and Secretary Suresh Acharya.



## Meet RPGCL's First Permanent Recruits!



बिजुली मार्ग: समृद्ध नेपालतर्फको यात्रा

# Governance & Ownership Structure

Rastriya Prasaran Grid Company Limited (RPGCL), a Government of Nepal (GoN) undertaking, operates under the Ministry of Energy, Water Resources, and Irrigation (MoEWRI). The company's ownership is shared among eight government ministries and the Nepal Electricity Authority (NEA). As an independent Transmission System Operator (TSO), RPGCL is governed by structures defined by its shareholders, ensuring transparent and efficient operations.

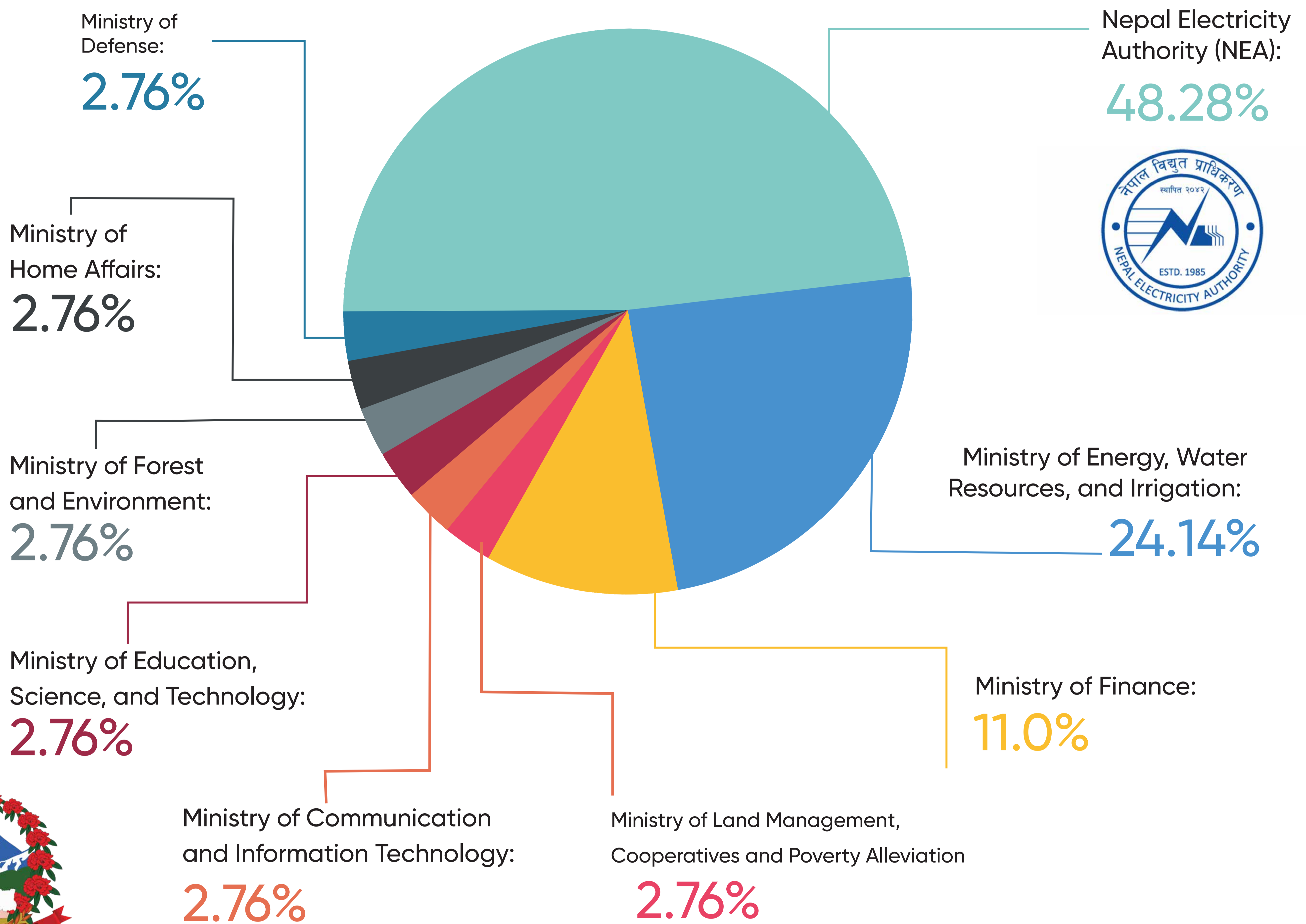
**Chairperson:**  
Secretary, Ministry of Energy,  
Water Resources, and Irrigation (MoEWRI)



Corporate Office: Buddhanagar, Kathmandu

## Shareholding Structure

RPGCL's capital structure is composed of contributions from the following major stakeholders:



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# BOARD OF DIRECTORS



The Board of Directors is responsible for overseeing the governance and strategic direction of RPGCL. It consists of 4 members representing various ministries, 2 members from the Nepal Electricity Authority (NEA), 2 independent directors, and the CEO, making a total of 9 members. The Board ensures the company's adherence to its mandate while upholding transparency and accountability.



**SURESH ACHARYA**

Chairman  
Secretary, Ministry of Energy,  
Water Resources, and Irrigation



**JEEBACHH MANDAL**

Director  
Joint Secretary, Ministry of Energy,  
Water Resources, and Irrigation



**GOPI KRISHNA KOIRALA**

Director  
Joint Secretary, Ministry of Finance



**YOGENDRA P. DULAL**

Director  
Joint Secretary, Ministry of Land Management,  
Cooperatives and Poverty Alleviation



**HITENDRA DEV SHAKYA**

Director  
Managing Director, Nepal Electricity Authority



**DIRGHYAU K. SHRESTHA**

Director  
Deputy Managing Director,  
Nepal Electricity Authority



**SANTOSH SHRESTHA**

Independent Director



**SARAD BASYAL**

Independent Director



**ER. SAGAR SHRESTHA**

Chief Executive Officer  
Rastriya Prasaran Grid Company Limited



‘विद्युत मार्ग – समृद्ध नेपालतर्फको यात्रा’

# MESSAGE FROM CEO

It is an honor to lead Rastriya Prasaran Grid Company Limited. Our goal is to strengthen Nepal's transmission grid, supporting national growth and regional energy cooperation.

We are focused on operational efficiency, innovation, and sustainability, with plans to:

- ▶ Accelerate key infrastructure projects, including cross-border transmission lines
- ▶ Foster public-private partnerships for innovation and capital
- ▶ Leverage new technologies for a resilient grid
- ▶ Uphold transparency and accountability.

Our mission is to enable socio-economic development and enhance Nepal's role in South Asia's energy sector. Thank you for your continued support.



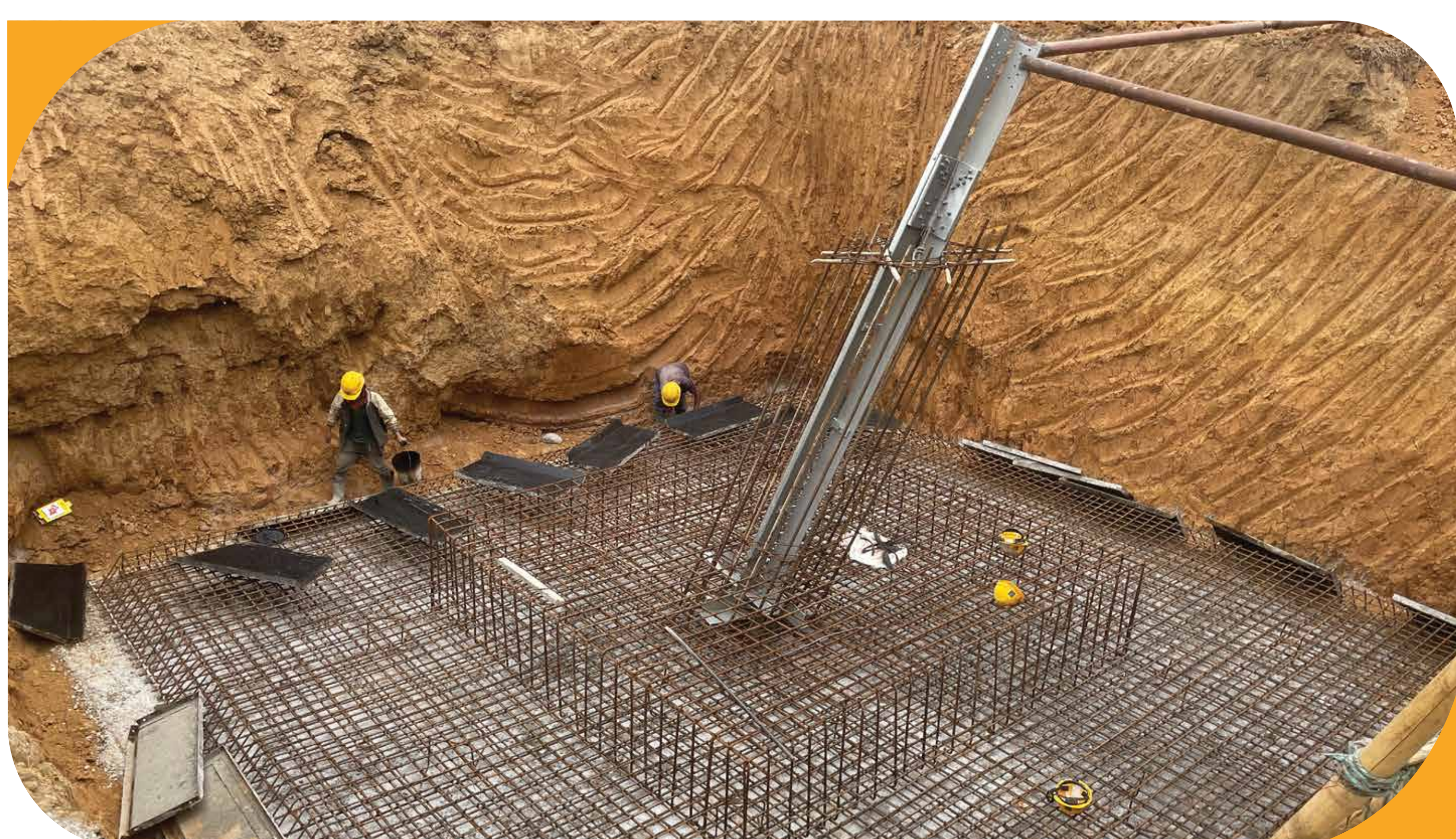
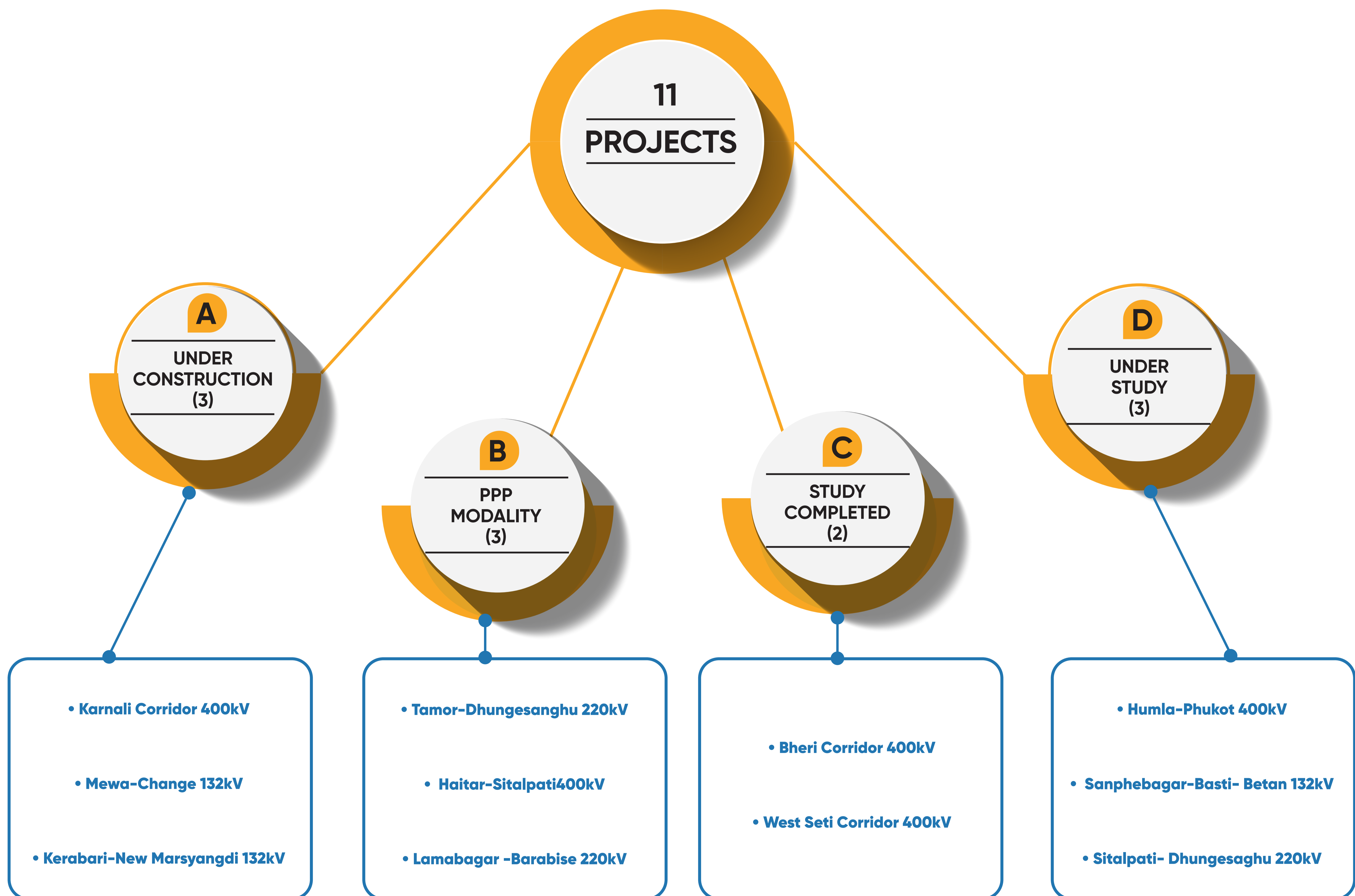
**Er. Sagar Shrestha**  
Chief Executive Officer

Er. Sagar Shrestha, a seasoned energy professional, currently serves as the Chief Executive Officer of Rastriya Prasaran Grid Company Limited (RPGCL), Nepal. With expertise in hydropower, renewable energy, and energy policy, he has been instrumental in advancing Nepal's energy infrastructure. He has served on the Board of the Nepal Engineering Council and the elected Executive Committee of the Nepal Engineers' Association. Under his leadership, RPGCL manages 11 national projects valued at approximately NPR 110 billion, enhancing Nepal's energy security and regional connectivity. A native of Namobuddha Municipality-7, Dapcha, Kavrepalanchok, Mr. Shrestha holds a Master's degree in Engineering from the prestigious Indian Institute of Technology (IIT) Roorkee.





Currently, 11 numbers of transmission line projects which are at different stages of development are as below:



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# A UNDER CONSTRUCTION

## Karnali Corridor 400 kV Transmission Line Project

Project Name	Karnali Corridor 400 kV Transmission Line Project
Province	Karnali, Sudur Paschim
Location/Affected Area	Kalikot, Achham, Surkhet, Kailali
Power Evacuation Capacity	2500 MW
Voltage	400 kV
Length	120 km
Substations	Phukot, Betan, Dododhara
Capacity	160 MVA, 160 MVA, 1000MVA
Targeted Completion Year	2085/86
Major Hydro Powers	Phukot Karnali (480MW), Betan Karnali (688MW), Tila-1 (440MW), Tila-2 (420MW)
Tentative Budget Required	200M USD

The Karnali Corridor 400 kV Transmission Line Project is a strategically significant infrastructure initiative aimed at harnessing and evacuating hydroelectric power from the resource-rich Karnali and Sudur Paschim Provinces in western Nepal. The region is endowed with immense hydropower potential, particularly along the Karnali River and its tributaries. However, the lack of high-capacity transmission infrastructure has long hindered the optimal development and distribution of electricity generated in these remote areas.

## Mewa-Change (Dhungesanghu) 132 kV Transmission Line

Project Name	Mewa-Change (Dhungesanghu) 132 kV Transmission Line
Province	Koshi
Location/Affected Area	Taplejung
Power Evacuation Capacity	154.35 MW
Voltage	132 kV
Length	20 km
Substations	Mewa Substation
Capacity	30 MVA
Targeted Completion Year	2083/84
Major Hydro Powers	Upper Mewa A (31.92MW), Palun Khola 1 HEP (30 MW), Union Mewa HEP (23MW), Palun Khola small HEP (21 MW), Sona Khola HEP (9 MW)
Tentative Budget Required	10.3 MUSD

The Mewa-Change 132 kV Transmission Line Project is a vital infrastructure development aimed at strengthening the electricity transmission network in Nepal's eastern region, particularly in Taplejung District of Province 1. This project is designed to support the growing number of hydropower projects in the region by providing a reliable and high-capacity evacuation route for generated power.

## Kerabari-New Marsyangdi (Daraudi Corridor) 132 kV Transmission Line Project

Project Name	Kerabari-New Marsyangdi 132 kV Transmission Line Project
Province	Gandaki
Location/Affected Area	Gorkha, Tanahun
Power Evacuation Capacity	120 MW
Voltage	132 kV
Length	32 km
Substations	Kerabari
Capacity	30 MVA
Targeted Completion Year	2083/84
Major Hydro Powers	Middle Kabele HEP (42.9), Upper Kabele (37), Kabele-B (19.4), Kabele-1 (25), Kabele-3 (2), Kabele-5 (2), Kabele-6 (1), Lungba Khola (0.09)
Tentative Budget Required	12.8 MUSD

The Kerabari-New Marsyangdi 132 kV Transmission Line Project is a critical infrastructure initiative designed to evacuate electricity from a cluster of hydropower plants in the Gorkha and Tanahun districts of Gandaki Province, Nepal. These districts are home to a number of small to medium-sized hydropower projects that contribute significantly to the local and national energy supply.

# B PPP MODALITY

## Tamor-Dhungesanghu 220 kV Transmission Line Project

Project Name	Tamor-Dhungesanghu 220 kV Transmission Line Project
Province	Koshi
Location/Affected Area	Taplejung
Power Evacuation Capacity	700 MW
Voltage	220 kV
Length	32 km
Substations	Tamor Substation, Dhungesanghu Bay Extension
Capacity	315 MVA
Targeted Completion Year	2087/88
Major Hydro Powers	Ghunsa Khola HEP (77.5MW), Super Tamor (66MW), Simbuwa Khola (70.3MW)

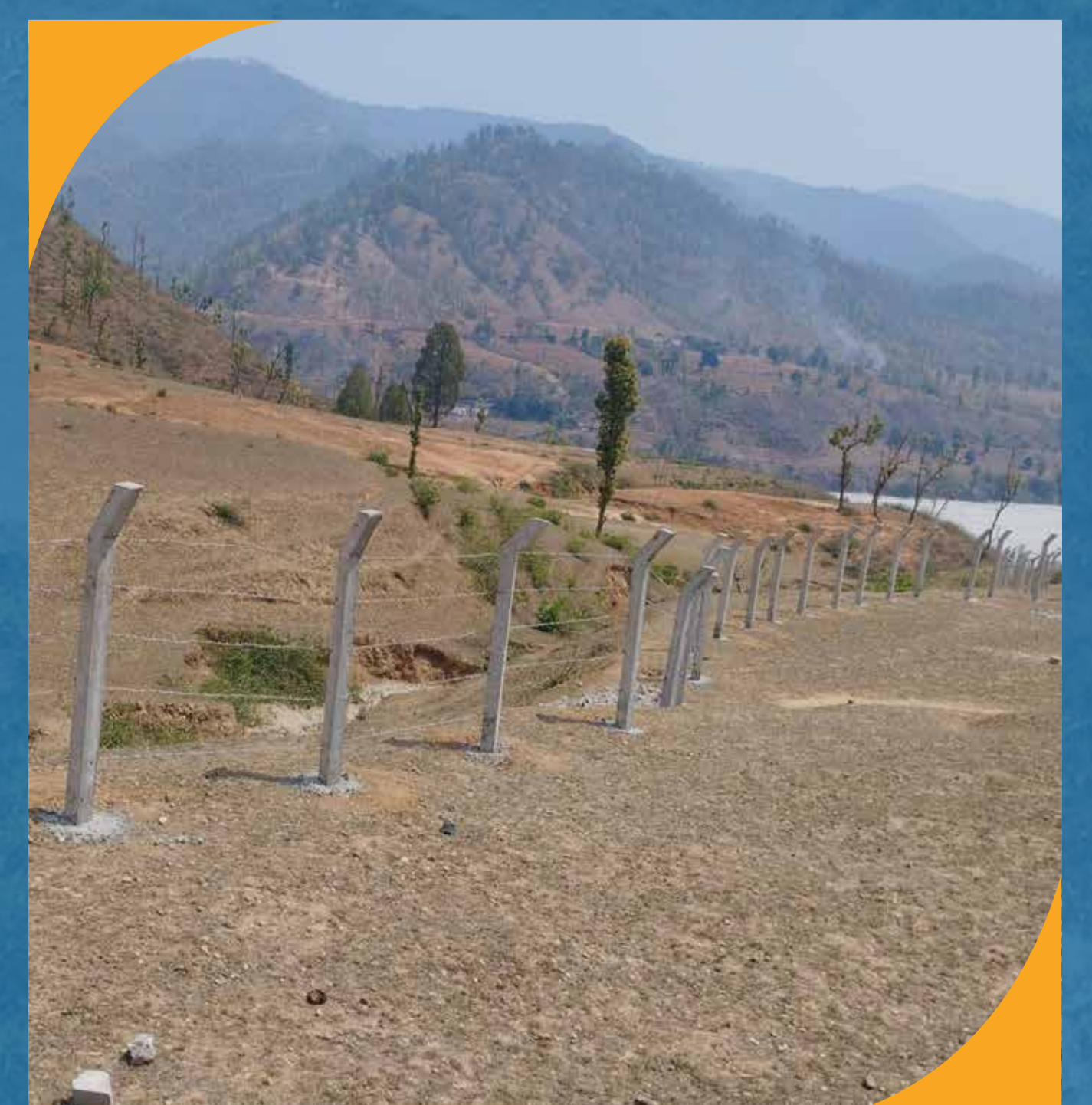
Subsidiary Company named Tamor Dhungesanghu Power Transmission Company Limited formed. 26% Share of RPGCL.

## Haitar-Sitalpati (Arun Corridor) 400 kV Transmission Line Project

Project Name	Haitar-Sitalpati (Arun Corridor) 400 kV Transmission Line Project
Province	Koshi
Location/Affected Area	Sankhuwasabha
Power Evacuation Capacity	2260 MW
Transmission Line	400 kV
Length	35 km
Substations	Haitar, Sitalpati
Capacity	300 MVA, 630 MVA
Targeted Completion Year	2087/88
Major Hydro Powers	Kimathanka Arun (450MW), Upper Arun (1061 MW), Kusuwa Khola (45MW), Chujung Khola(48MW), Lower Barun Khola (55MW), Ikhuwa Khola (40MW)
Tentative Budget Required	69.65 MUSD

## Lambagar-Barhabise 220 kV Transmission Line Project

Project Name	Lambagar-Barhabise 220 kV Transmission Line Project
Province	Bagmati
Location/Affected Area	Dolakha, Sindhupalchowk
Power Evacuation Capacity	1240 MW
Voltage	220 kV
Length	43 km
Substations	Lambagar Substation, Barabishe Bay Extension
Capacity	315 MVA
Targeted Completion Year	2087/88
Major Hydro Powers	Lapche HEP (160MW), Upper Lepche HEP (52MW), Lapche Tamakoshi HEP (22MW), Jhoom HEP (56MW), Rolwaling HEP (88MW)
Tentative Budget Required	28.78 MUSD



## C STUDY COMPLETED

### Bheri Corridor 400 kV Transmission Line Project

Project Name	Bheri Corridor 400 kV Transmission Line Project
Province	Karnali
Location/Affected Area	Jajarkot, West Rukum, Salyan, Surkhet
Power Evacuation Capacity	2400 MW
Voltage	400 kV
Length	93 km
Substations	Nalgad, Maintada
Capacity	160 MVA, 315 MVA
Targeted Completion Year	2086/87
Major Hydro Powers	Nalgad (410 MW), Bheri-1 (617 MW), Bheri-2 (256 MW)
Tentative Budget Required	160M USD

### West Seti Corridor 400 kV Transmission Line Project

Project Name	West Seti Corridor 400 kV Transmission Line Project
Province	Sudur Paschim
Location/Affected Area	Bajhang, Doti, Dadeldhura, Kanchanpur, Kailali
Power Evacuation Capacity	2500 MW
Transmission Line	400 kV
Length	213 km
Substations	Bajhang, West Seti
Capacity	315 MVA, 160MVA
Targeted Completion Year	2088/89
Major Hydro Powers	West Seti (800MW), Chainpur Seti (210MW), Seti Nadi-3 (87MW), Bajhang Upper Seti (216MW)
Tentative Budget Required	204.27 MUSD

## D UNDER STUDY

### Humla-Phukot 400 kV Transmission Line Project

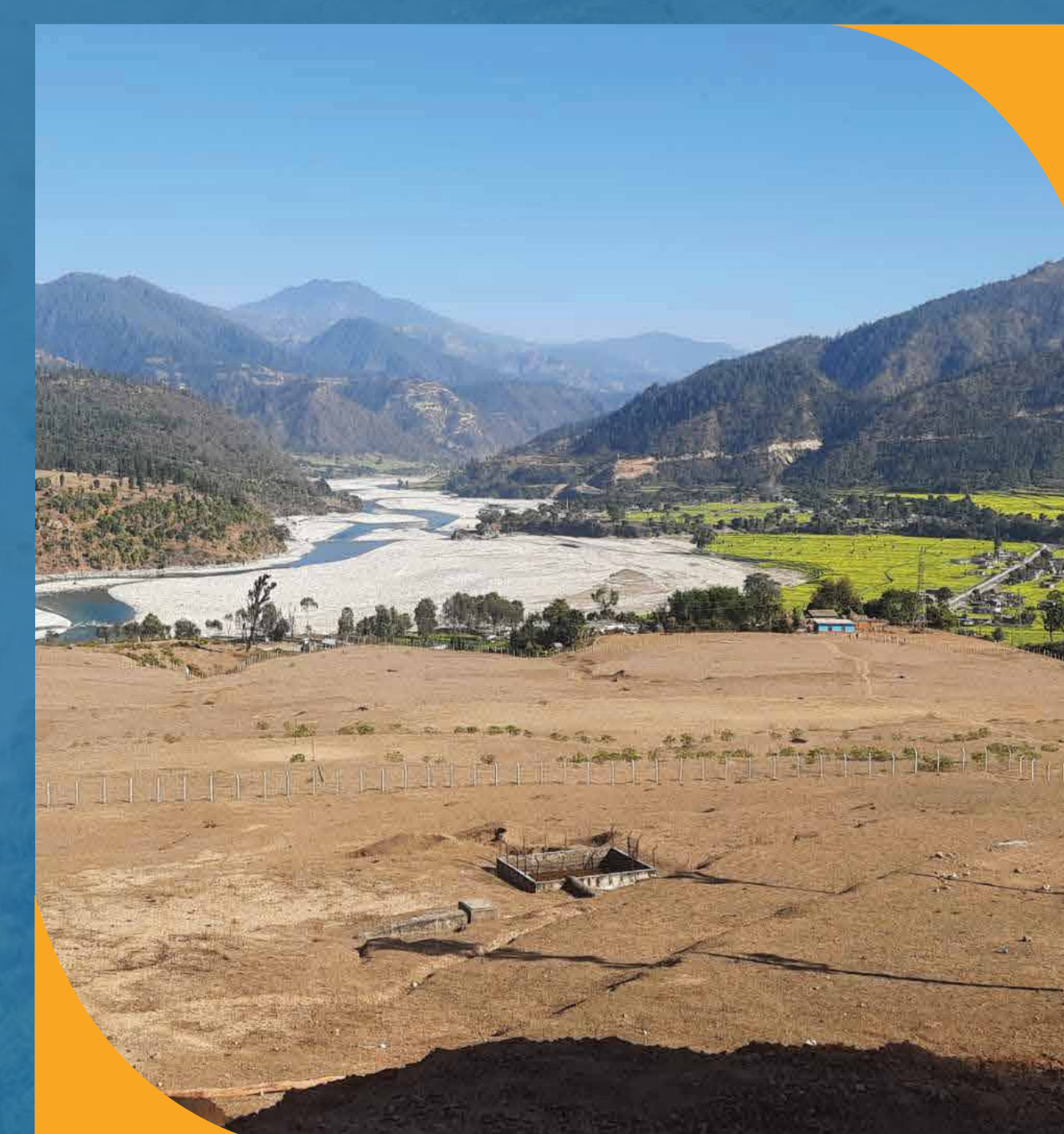
Project Name	Humla-Phukot 400 kV Transmission Line Project
Province	Karnali, Sudur Paschim
Location/Affected Area	Humla, Bajura, Kalikot
Power Evacuation Capacity	2250 MW
Transmission Line	400 kV
Length	85 km
Substations	Humla Substation, Phukot Bay Extension
Capacity	630 MVA
Targeted Completion Year	2088/89
Major Hydro Powers	Humla Karnali-1 (235MW), Humla Karnali-2 (304MW), Humla Cascade (916MW), Chuwa Khola (70MW), Mathillo Chuwa (103MW), Namlang Khola (135MW)
Tentative Budget Required	138M USD

### Sanfebagar-Basti-Betan 132kV Transmission Line Project

Project Name	Sanfebagar-Basti-Betan 132kV Transmission Line Project
Province	Karnali, Sudur Paschim
Location/Affected Area	Surkhet, Accham
Power Evacuation Capacity	100 MW
Voltage	132 kV
Length	48 km
Substations	Sanfebagar, Betan
Targeted Completion Year	2087/88
Major Hydro Powers	Budī Ganga (20MW)
Tentative Budget Required	2.22 MUSD

### Sitalpati-Dhungesanghu 220 kV Transmission Line Project

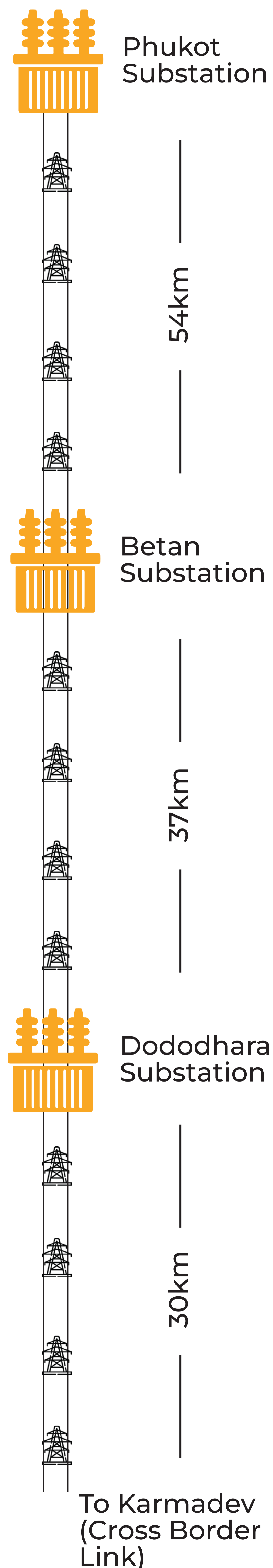
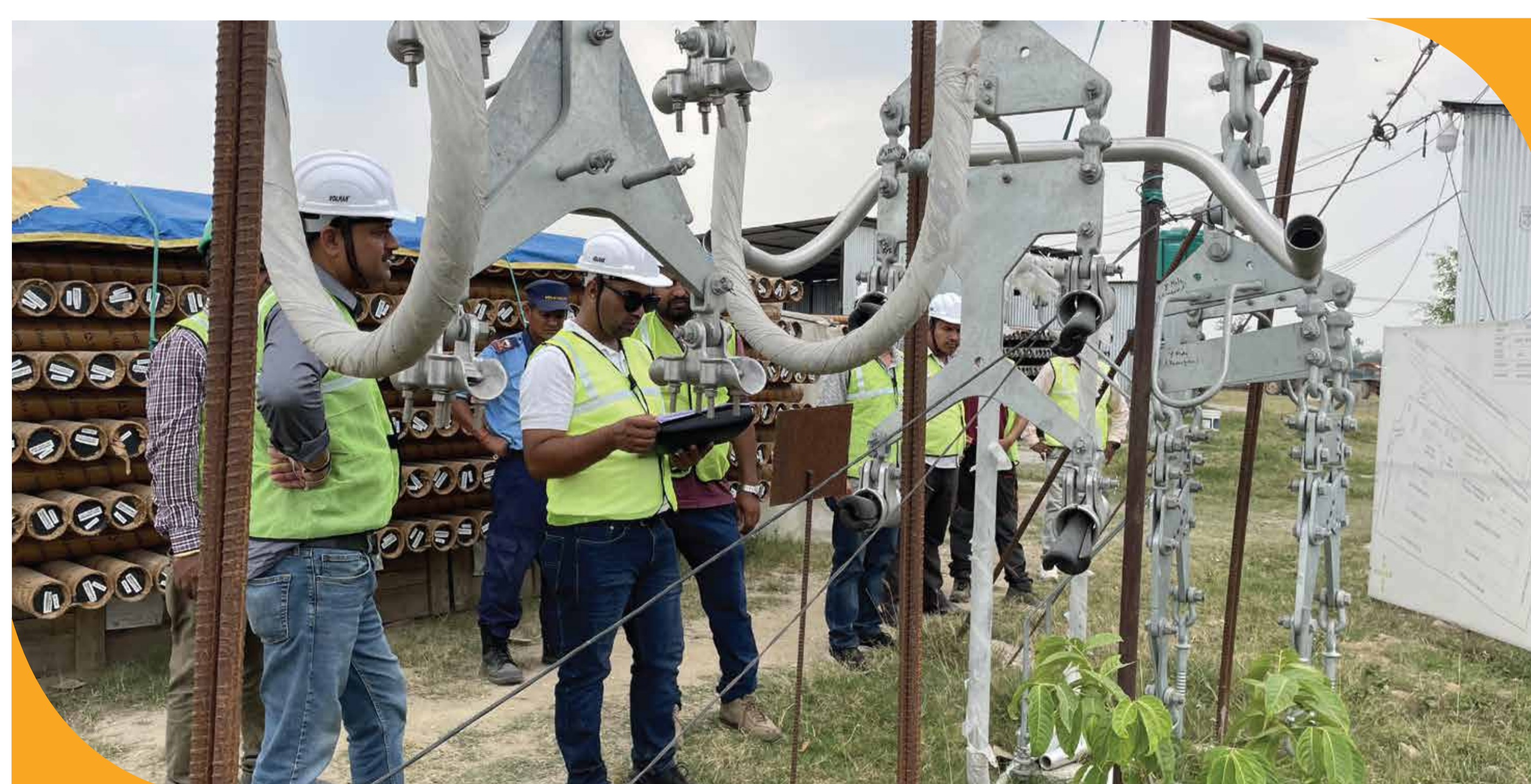
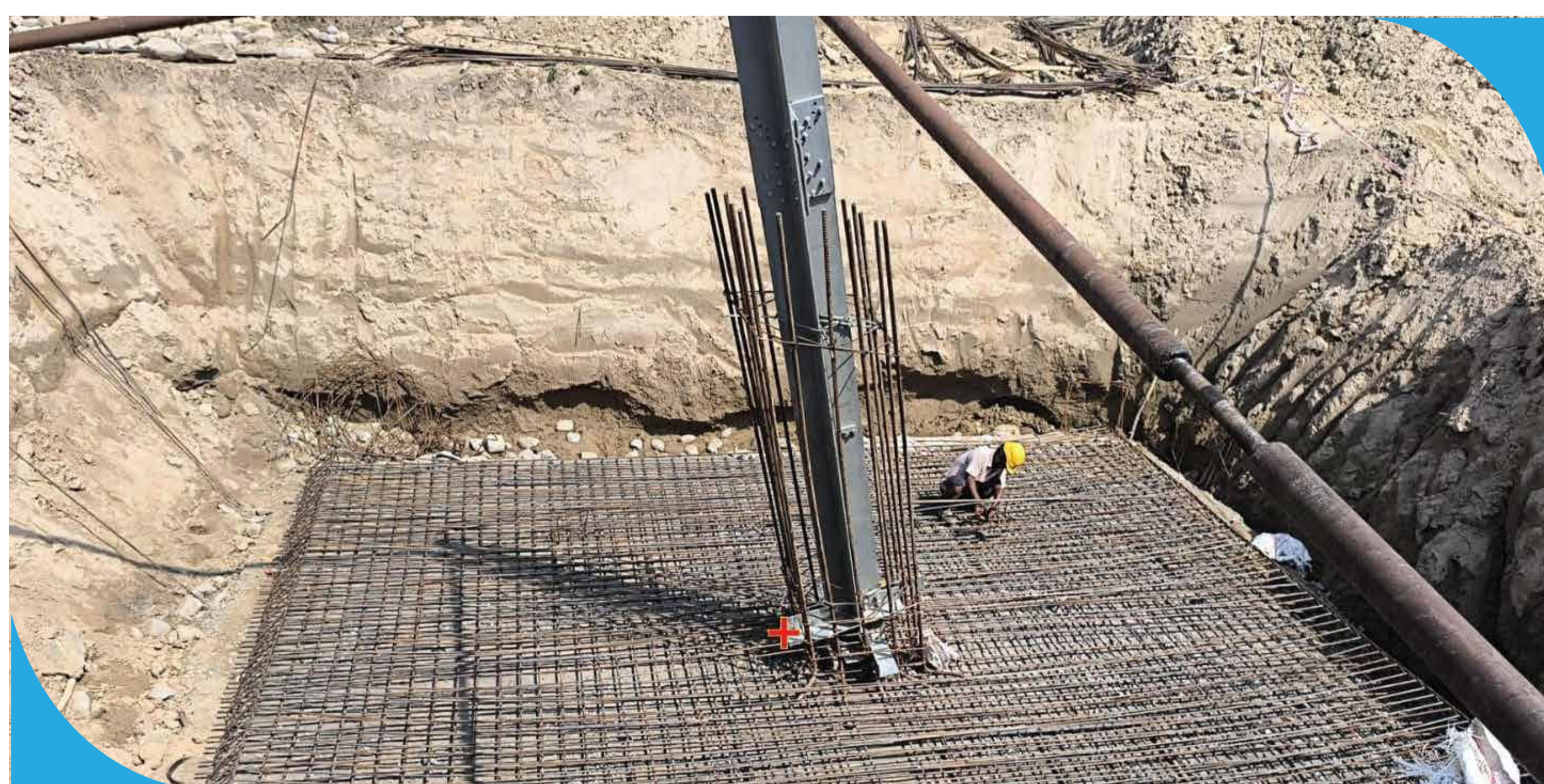
Project Name	Sitalpati- Dhungesanghu 220 kV Transmission Line Project
Province	Koshi
Location/Affected Area	Taplejung, Sankhuwasabha
Power Evacuation Capacity	600 MW
Voltage	220 kV
Length	48 km
Substations	Sitalpati Bay Extension, Dhungesanghu Bay Extension
Targeted Completion Year	2087/88
Tentative Budget Required	17.14 MUSD



# PROGRESS IN MOTION

## A CLOSER LOOK AT OUR TRANSMISSION LINES UNDER CONSTRUCTION

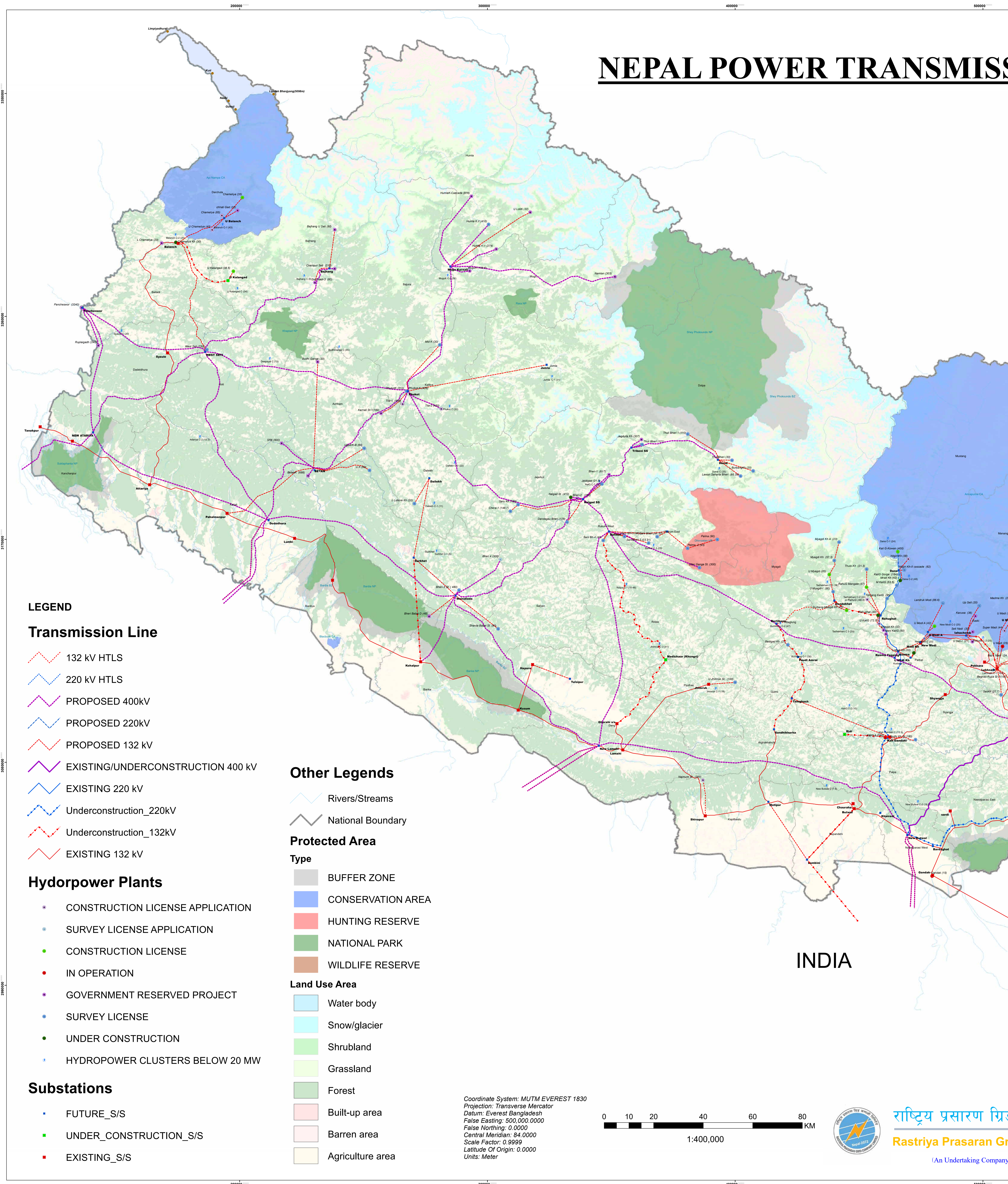
### 1. Karnali Corridor 400kV Transmission Line Project



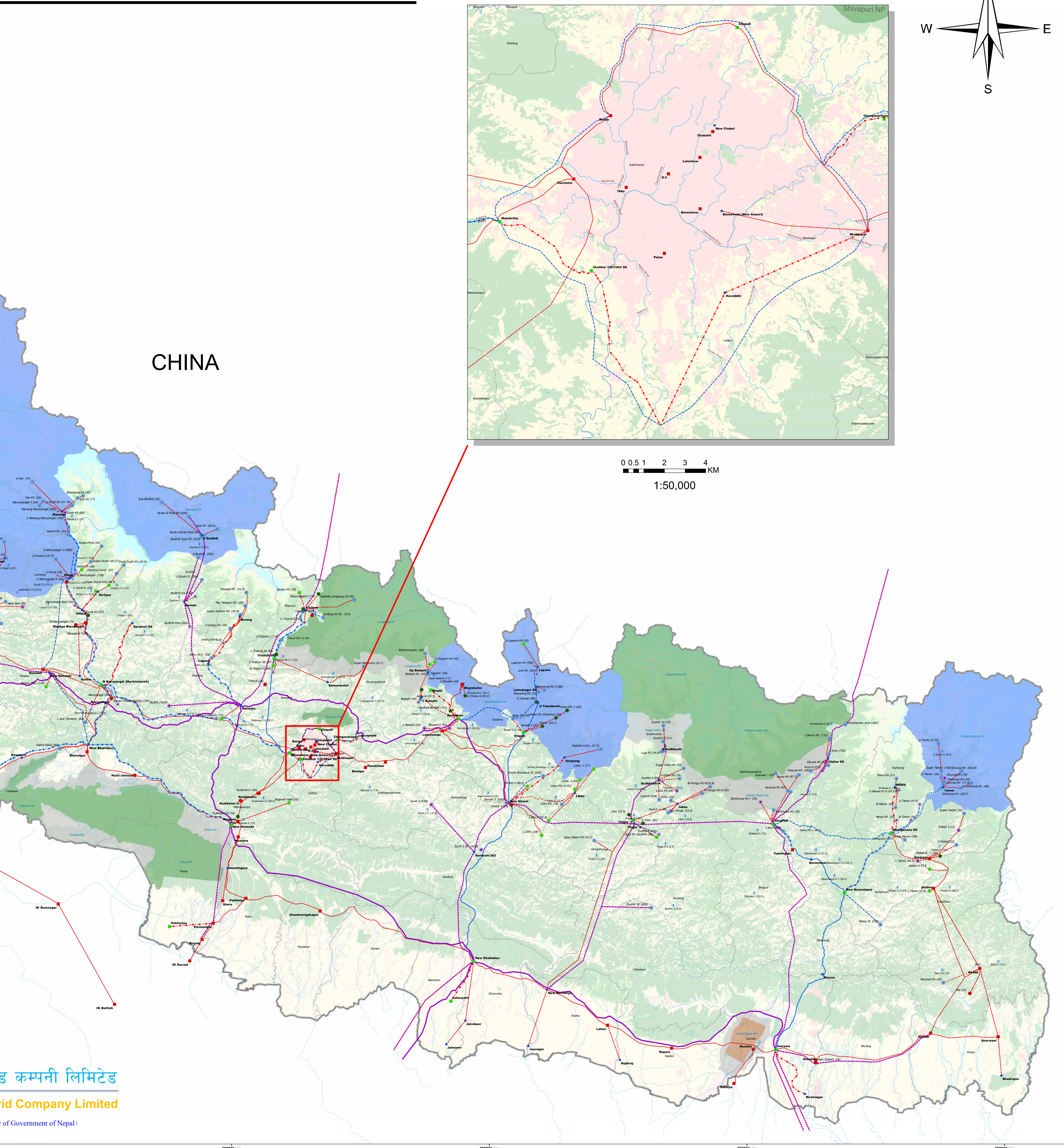
261 Towers, Double Circuit, Quad Moose

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# NEPAL POWER TRANSMISSION



# TRANSMISSION NETWORK MAP 2040

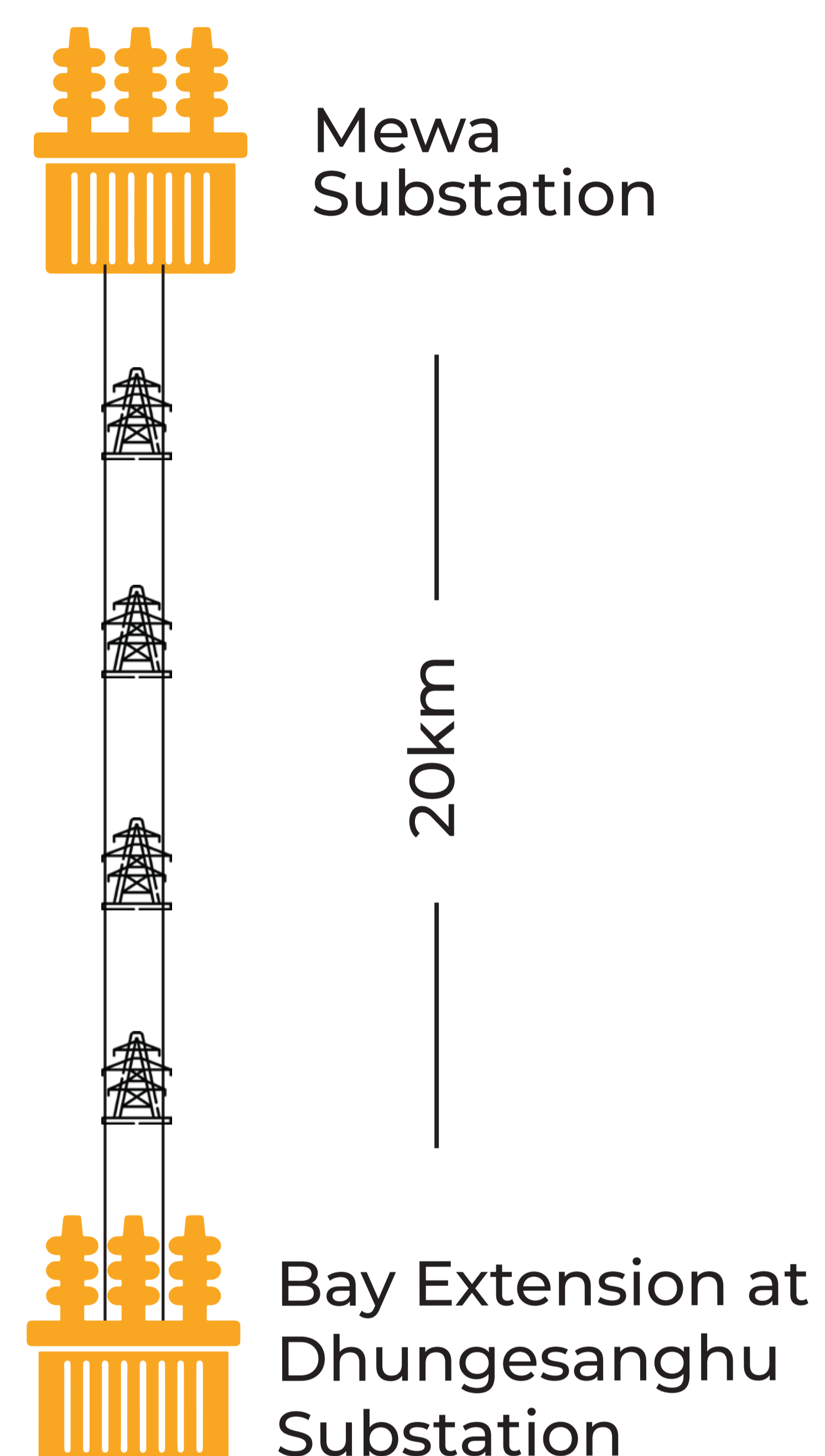
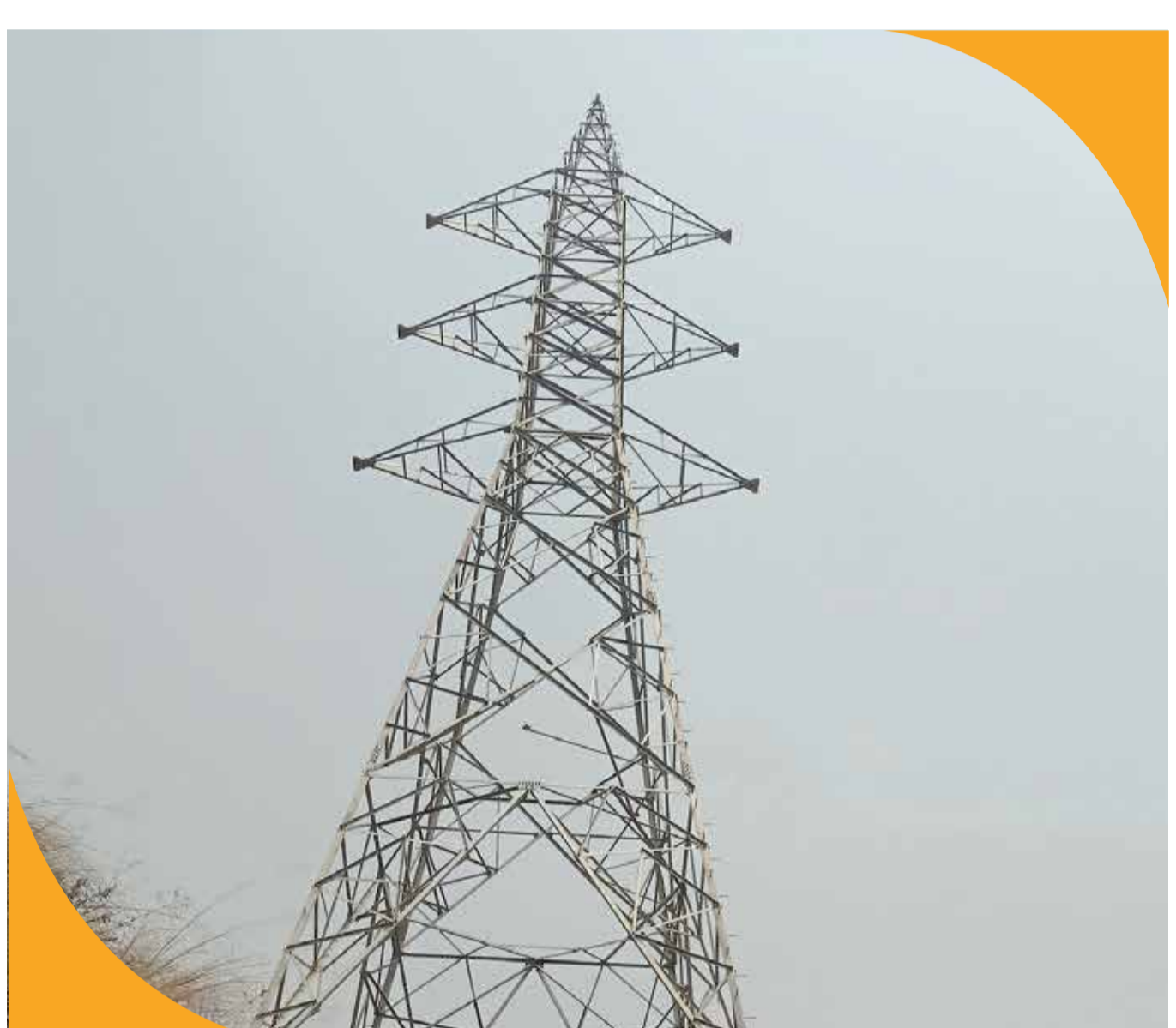


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# PROGRESS IN MOTION

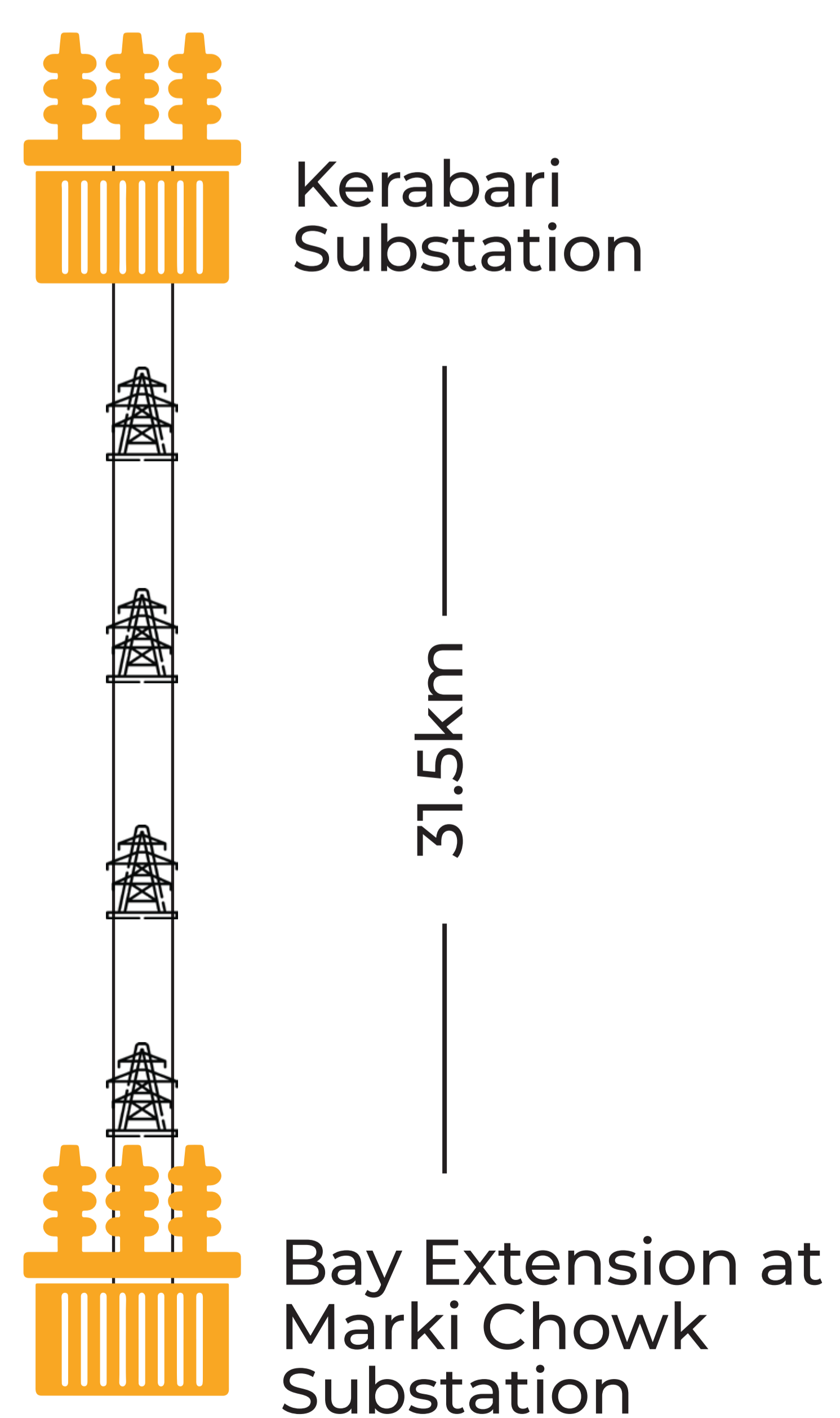
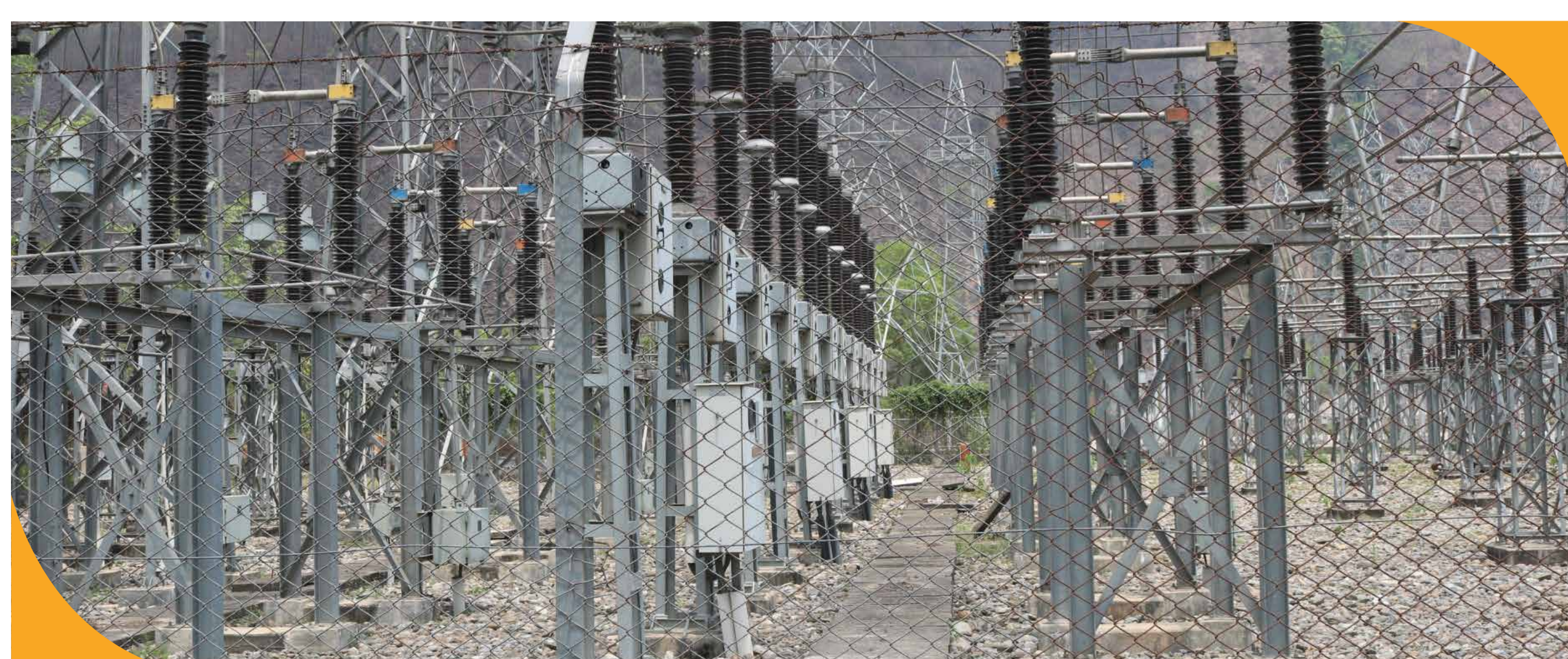
## A CLOSER LOOK AT OUR TRANSMISSION LINES UNDER CONSTRUCTION

### 2. Mewa-Change (Dhungesanghu) 132kV Transmission Line Project



62 Towers, Double Circuit, Bear Conductor

### 3. Kerabari - New Marsyangdi (Daraudi Corridor) 132 kV Transmission Line Project

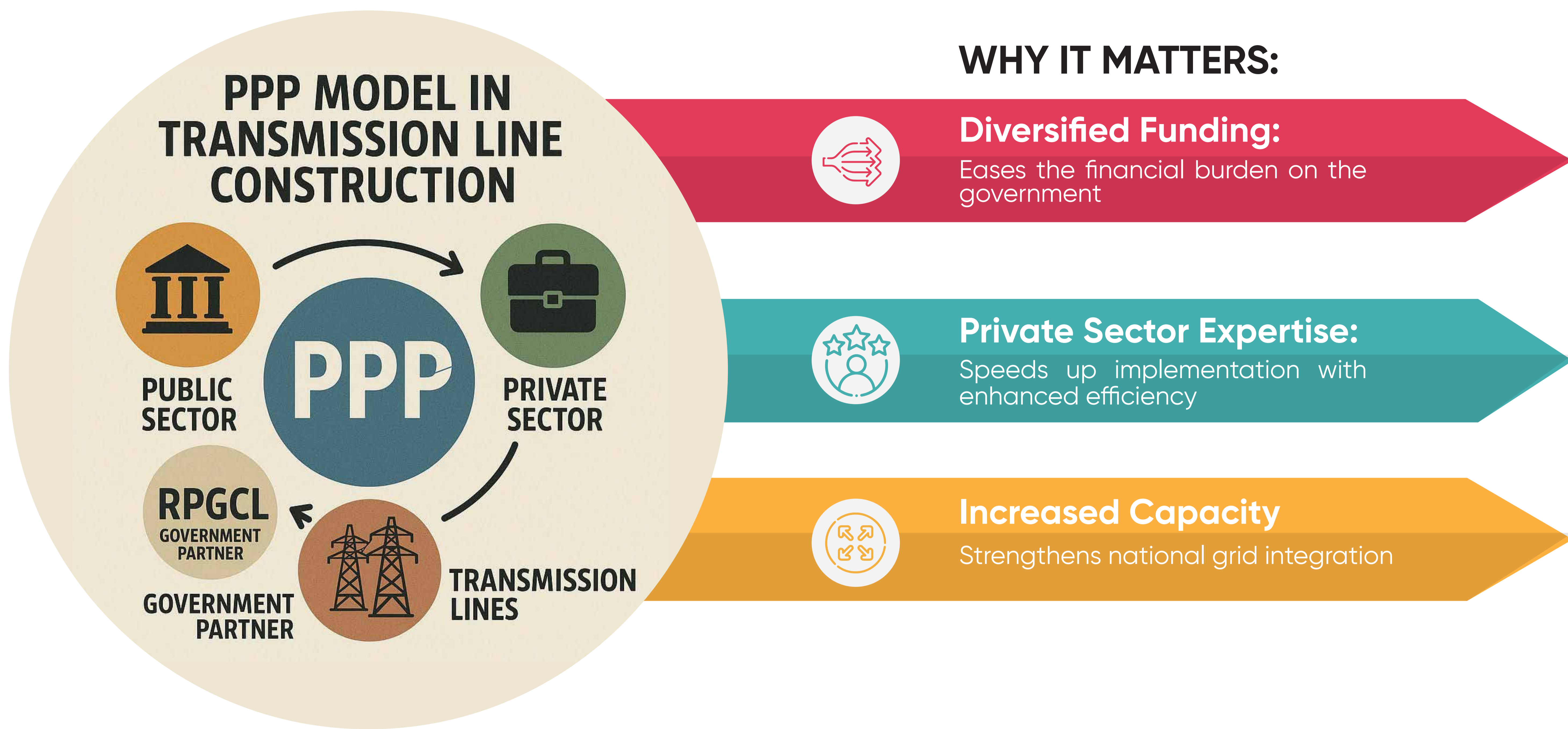


107 Towers, Double Circuit, Bear Conductor

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# PROGRESS IN MOTION

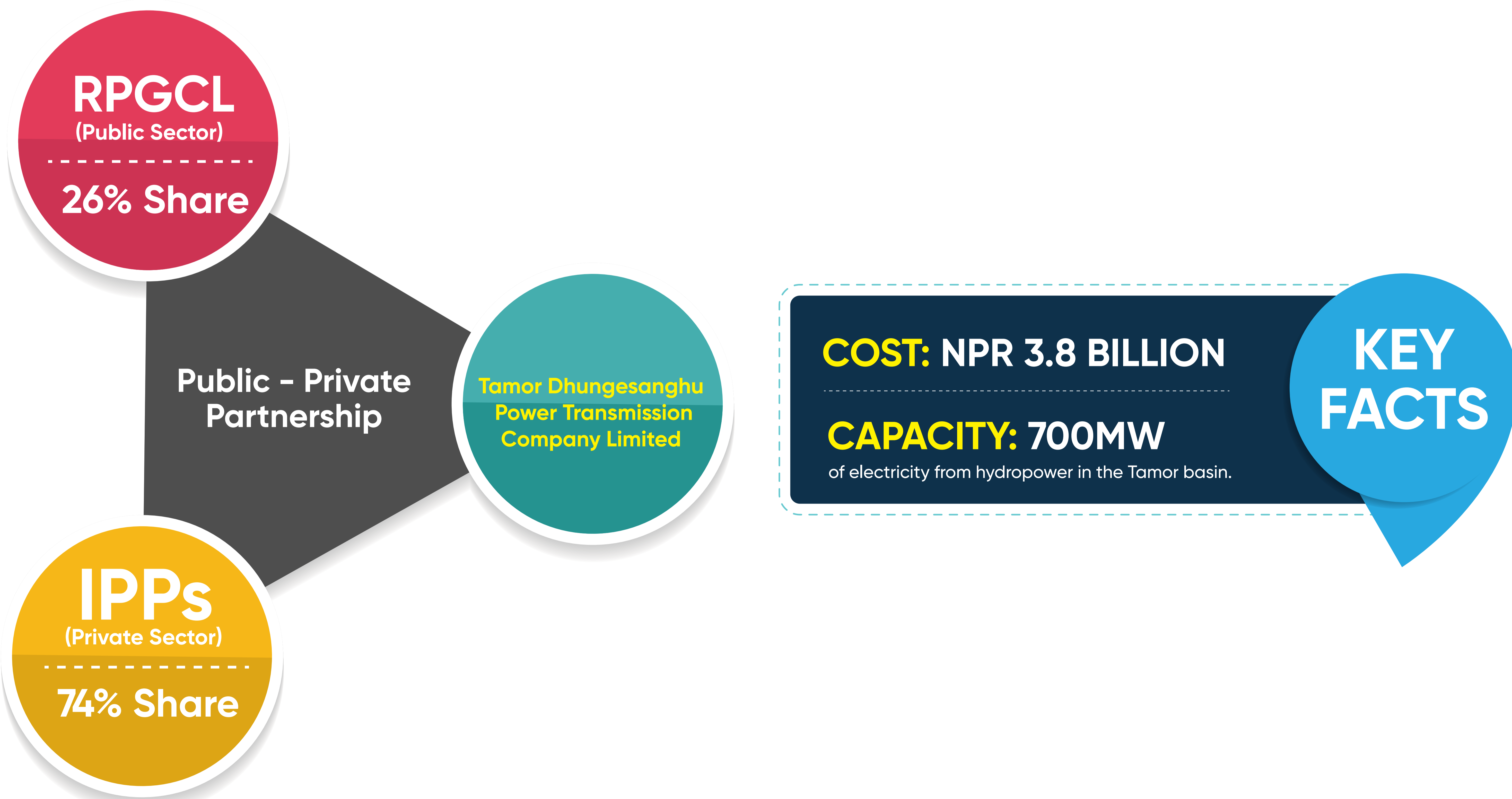
## A CLOSER LOOK AT OUR TRANSMISSION LINES UNDER PPP MODEL



### RPGCL'S LANDMARK ACHIEVEMENT: NEPAL'S FIRST PPP TRANSMISSION LINE

#### Tamor-Dhungesanghu 220 kV Transmission Line Project

Rastriya Prasaran Grid Company Limited (RPGCL) has led the way in Nepal's energy sector with the country's first Public-Private Partnership (PPP) transmission line project. Through the establishment of Tamor Dhungesanghu Transmission Company in Taplejung, the Tamor-Dhungesanghu 220 kV Transmission Line Project marks a significant milestone, being the first time government entities like RPGCL, together with Independent Power Producers (IPPs), are jointly developing such critical infrastructure.



# PROGRESS IN MOTION

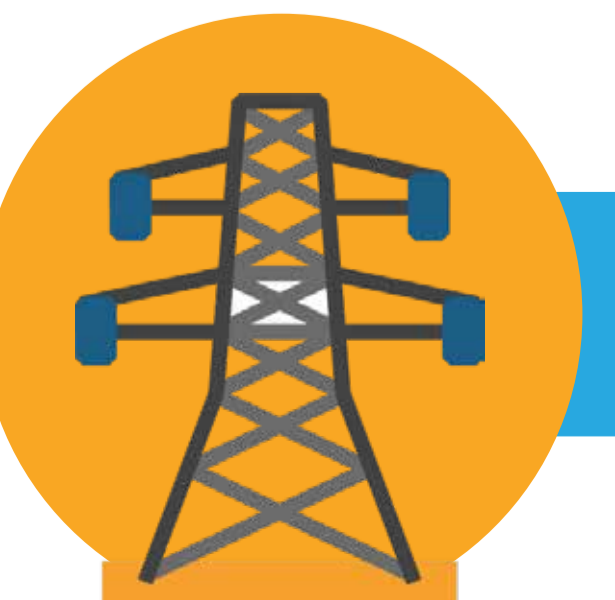
## A CLOSER LOOK AT OUR

### TRANSMISSION LINES WAITING FOR FINANCIAL CLOSURE

#### 1. Bheri Corridor 400 kV Transmission Line Project



244 Towers, Double Circuit, Quad Moose



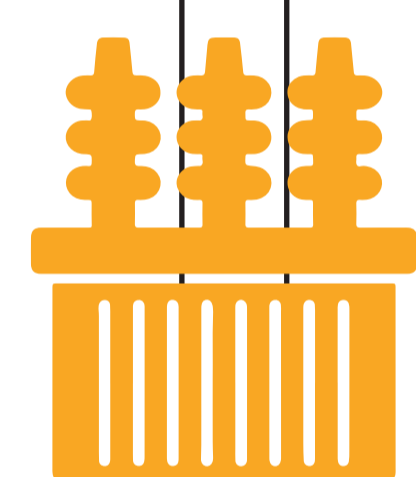
45 Towers, Double Circuit, Quad Moose



Maintada Substation



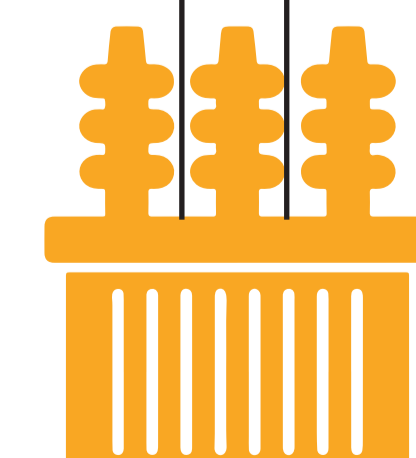
75km



Nalgad Substation



18km



Bay Extension at Bafikot Substation

# PROGRESS IN MOTION

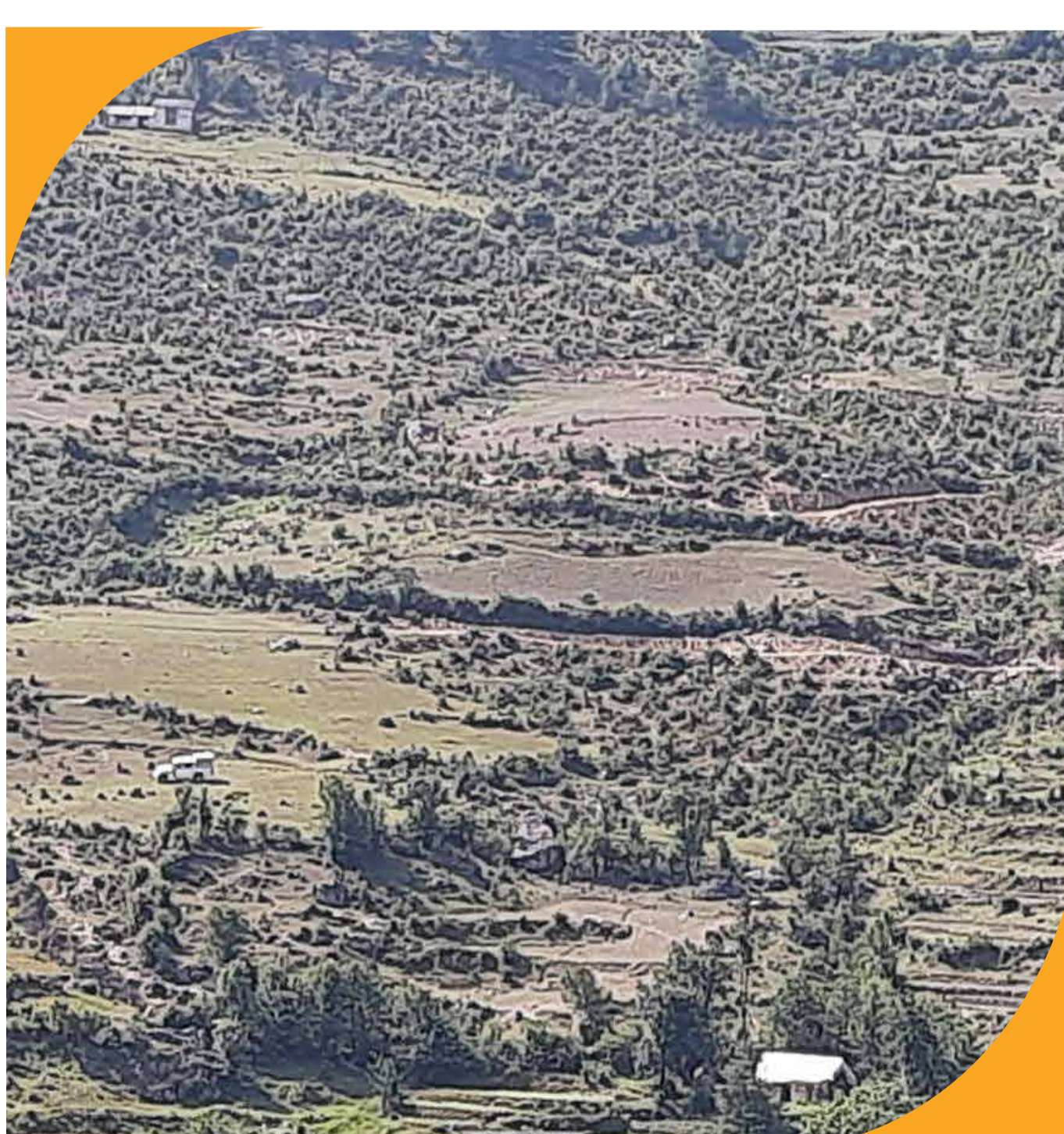
## A CLOSER LOOK AT OUR

### TRANSMISSION LINES WAITING FOR FINANCIAL CLOSURE

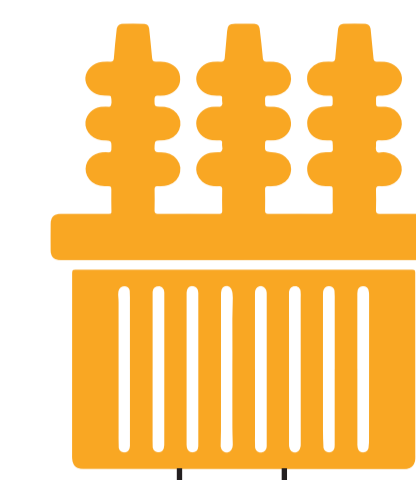
#### 2. West Seti Corridor 400 kV Transmission Line Project



146 Towers, Double Circuit, Quad Moose



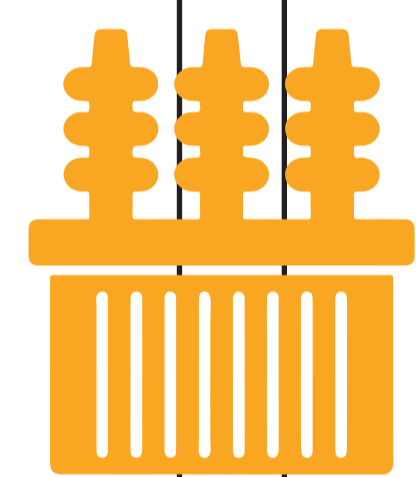
207 Towers, Double Circuit, Quad Moose



Chainpur Substation



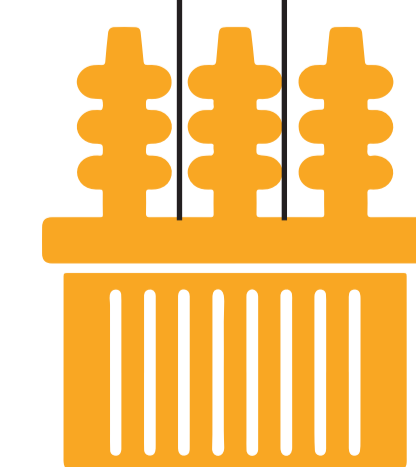
60km



Banlek Substation (West Seti)



85km



Dododhara Substation

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# SPOTLIGHT ON RPGCL'S RECENT ACTIVITIES



Accelerating Energy Infrastructure in Western Nepal



CEO's Participation at Ministry's Senior Management Team Meeting



RPGCL Celebrates 10 Years of Progress and Service



Farewell to Board Member Santosh Shrestha



CEO Welcoming Hon. Minister Dipak Khadka at the MoU Signing Ceremony



Hon. Minister Dipak Khadka Addressing the MoU Signing Ceremony



Powering Nepal's Future: MoU Signed for 607MW Grid Connection



MoU Signing with K&A Engineering

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# SPOTLIGHT ON RPGCL'S RECENT ACTIVITIES



CEO in Discussion with World Bank Country Director Mr. David Sislen



Discussion with IPPs on PPP Modalities for West Seti Corridor Project



CEO Participates in Asia Clean Energy Forum 2025



RPGCL's Team Building Retreat 2022



Deloitte advisors from Nepal's Electricity Regulatory Commission visit RPGCL



Fostering Strategic Partnerships with JICA



Team RPGCL Shines at Futsal Tournament



Women Powering Nepal's Grid

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# Investment & Funding Models:



Share Investment/Government Loan

Public Private Partnership (PPP Model)



Bilateral/  
Multilateral Loans  
and Grants

Innovation: Adoption of smart grid



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# POWERING THE NATION

## THE RASTRIYA PRASARAN GRID TEAM



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# RELIABLE TRANSMISSION, EMPOWERED COMMUNITIES

## बिजुली मार्ग - समृद्ध नेपालतर्फको यात्रा



BUTWAL POWER COMPANY LTD. BPC

# राष्ट्रिय प्रसारण ग्रिड कम्पनी लिमिटेड

(नेपाल सरकारको स्वामित्व भएको)

LINE MINISTRY



Government of Nepal  
**Ministry of Energy, Water Resources and Irrigation**  
Singhadurbar, Kathmandu, Nepal

## Rastriya Prasaran Grid Company Limited

BPC Building, Rudramati Marg, Buddhanagar, Kathmandu-10, Nepal

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