

# Hemja-Nayapul Khanda Road Tunnel Project



Government of Nepal  
**Ministry of Physical Infrastructure  
and Transport**



# Background

The Hemja-Nayapul Khanda Road Tunnel project by Nepal's government aims to strengthen the country's existing transportation network. It will bridge geographical gaps, ensuring safer and more efficient travel, and boost socio-economic growth. As a key part of a larger plan to improve highways and cut travel times, the project offers benefits like lower transport costs, better connectivity, and economic support. The tunnel starts at Ghatte Khola and ends at Nayapul with in the Pokhara Metropolitan City. The project includes thorough topographic, geological, and environmental studies, highlighting a dedication to sustainable development and transformation of Nepal's transport system



**Sector**  
Transportation



**Location**  
Pokhara Metropolitan City  
Kaski District, Gandaki Province



**Tunnel Length**  
7.053 Km

## Salient Features:

- Twin Double Lane Tunnel Configuration
- Weather Resilient Surfaces
- Equipped with emergency facilities, fire-resistant materials
- Smart monitoring systems for reduced operational costs and environmental footprints
- Energy Efficient Tunnel Illumination

## Project Rationale:

- Provide an alternative tunnel route for the existing road network that is lengthy, risky, high gradient and time consuming
- Improve Transportation Mobility along the Pokhara-Baglung Highway
- Reduce Traffic Congestions by addressing the existing topographic challenges
- Address Long term transport planning, coordination, and institutional issues

## Project Components



Tunnel Inlet and Outlet



Main tunnel



Audit Tunnel



Cross Passages



Ventilation System



Approach Roads

## Project Outcomes



Reduced Travel Time and Costs



Improved Traffic Flow



Enhanced Transportation Network



Enhanced Safety



Positive environmental impact



Infrastructure Development

## Financial Indicators

**Estimated Project Cost**  
NPR 16 Billion  
USD 42.13 Million

**Benefit Cost Ratio**  
1.08

**EIRR**  
13%

**Pay-back period**  
15.6 Years

**NPV**  
14.97  
Billion NPR

USD 1 = 112.57 NPR as of 2019

*(Information is based on Feasibility Study report prepared in 2019)*

## Project Implementation Modality



**Public Private Partnership (PPP)**

## Project Implementation Timeline



Project Ideation



Desk Study



Pre-feasibility Study



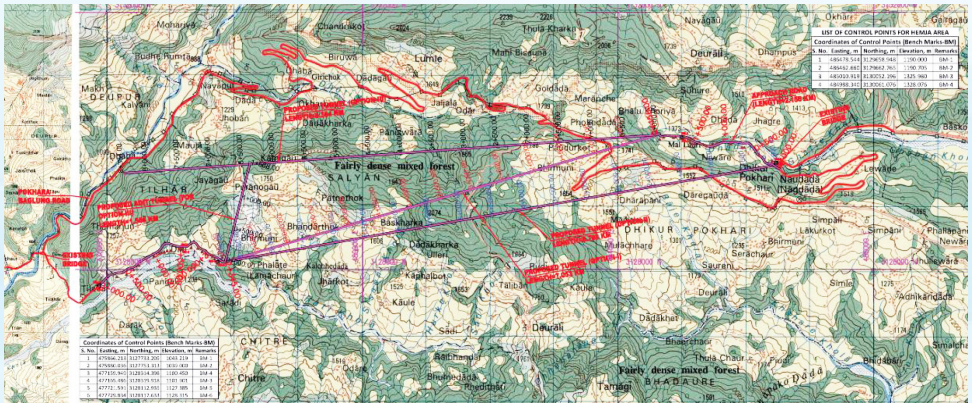
Feasibility Study (2019)



Solicitation



Project Development



## Relevant Agencies

- Ministry of Physical Infrastructure and Transport
- Department of Roads

## About the Agency

### Ministry of Physical Infrastructure and Transport

The Ministry of Physical Infrastructure and Transport (MoPIT) is the government body of Nepal dedicated to integrating various geographic and economic regions to foster the economic and social development of the country by prioritizing the construction of road, rail, and water transport infrastructure. The ministry aims to ensure the appropriate development of the national transport system, focusing on connecting rural areas with markets, fostering economic activities, and overseeing various economic sectors such as tourism, agriculture, and electricity production. Facilitating and coordinating various activities and projects related to infrastructure and transportation is the primary function of MoPIT.

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