Daunne Khanda Road Tunnel Project



Government of Nepal Ministry of Physical Infrastructure and Transport



Background

The Daunne Khanda Road Tunnel project is a strategic initiative by the Government of Nepal to enhance the East-West Highway's Narayanghat-Butwal section. Addressing the need for a safer, more efficient transportation corridor, the project proposes the construction of a road tunnel to mitigate the challenges of traffic congestion, steep gradients, and frequent landslides in the Daunne area. By bypassing the treacherous terrain, the tunnel aims to offer a direct and reliable route, thereby reducing travel time and maintenance costs, improving overall road safety, and enhancing connectivity within the region.





Start Point: Dumkibas, Nawalpur District End point: Bardhaghat, Nawalparasi District



Salient Features:

- Twin Double Lane tunnel
- Smart Monitoring System
- Fire Fighting
- Emergency Facilities
- Energy efficient tunnel Illumination

Project Rationale:

- Alternative to current existing road in fragile mountainous landscape with frequent landslides.
- Reduce traffic congestion in areas with difficult topography
- Improve transport mobility
- Reduce human and vehicles casualties
- Enhance accessibility and reduce travel distance

Project Components



Tunnel Inlet and Outlet





Cross Passage



Project Outcomes





Reduced travel time



Increased connectivity and accessibility





Preservation of Natural Landscape and habitats



Vehicle Operating Cost (VOC) savings

Financial Indicators

Estimated Project Cost

NPR 19 Billion USD 168.78 million







Economic NPV NPR 34.9 Billion



Pay-back period 13.25 Years



(1 USD= NPR 112.57 as per 2019) Discount Rate = 10%

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

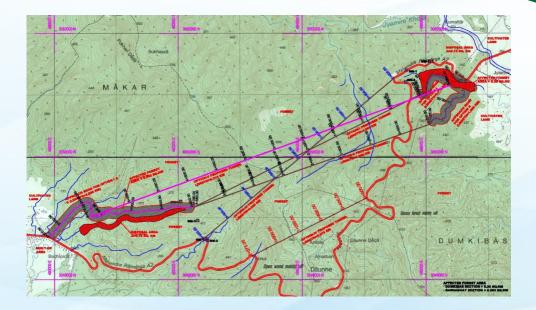
Project Implementation Modality



Public Private Partnership (PPP)

Project Implementation Timeline





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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