

# Kanke Deurali Water Impounding Reservoir Water Supply Project



Government of Nepal  
**Ministry of Water Supply**



# Background

Impounding Reservoir Water Supply Projects stand as the ultimate solution to combat the escalating effects of climate change, and the Kanke Deurali Water Impounding Reservoir project represents this necessity. This initiative aims to construct an impounding reservoir dam on the Gwaree Khola at Kanke Deurali, offering a pivotal source of potable water for the municipality. Beyond fulfilling drinking water needs, it also facilitates irrigation, fosters recreation, and enhances tourism, particularly around the historic Kanke Deurali site.



**Sector**  
Water Supply



**Location**  
Madane Rural Municipality  
Gulmi District, Lumbini Province



**Proposed Land Area**  
Public Forest land

## Project Rationale



Vital response to escalating impacts of climate change



Enhanced water security for the entire municipality



Lower costs due to serving a larger population and making significant impacts

## Salient Features



Catchment area (at dam site) with a 90% dependable flow to be 0.22 lps



Average annual flow of 1.47 lps



Design Flood to be 47.38 m<sup>3</sup>/sec (1000 years return period)



Crest Length of 77m with Culvert type spillway



Concrete Faced Rock Fill Dam (CFRD) of 24m height (from bed)

## Project Outcomes



Support to irrigation facilities



Tourism enhancement



Flood control



Improved water resilience

## Project Components



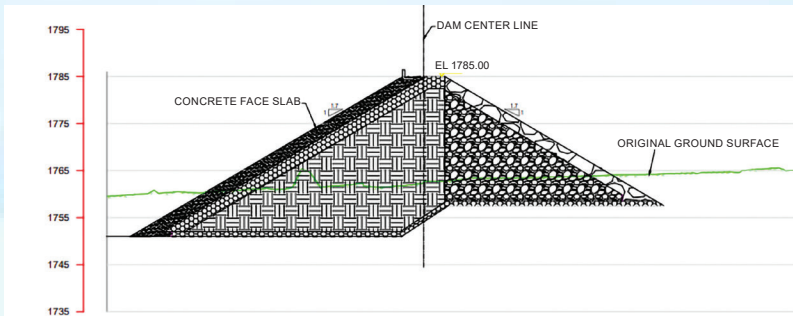
Dam



Intake



Spillway



## Project Implementation Modality



**Public Private Partnership  
(PPP)**

**Build, Own, Operate & Transfer  
(BOOT)  
or  
Build, Transfer & Operate  
(BTO)**

## Project Implementation Timeline



Project  
Ideation



Pre-feasibility  
Study



DPR  
(December 2023)



Solicitation



Project  
Development

## Relevant Agencies

- Investment Board of Nepal (IBN)
- Ministry of Water Supply

## About the Agency

The Ministry of Water Supply is the leading executive agency in the sector that formulates federal-level policy, carrying a vision of assuring safe and accessible water and sanitation services and hygiene. The ministry is committed to putting efforts to achieve many national and international goals and targets in water, sanitation, and hygiene, intended for the betterment of people's living standards. Among its key objectives is the implementation of national-level large water supply projects and inter-provincial water supply projects. By spearheading these initiatives, the ministry aims to address critical water supply challenges and improve the overall water infrastructure across the country, thereby contributing to the well-being and prosperity of its citizens.

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