

Through Email Only.



Government of India
Ministry of Road Transport & Highways
(PROJECT IMPLEMENTATION UNIT, Shimla)
Email: northpiushimla@gmail.com

No. MoRTH/PIU-HMR/Birhu-Lathiani/11/AE/2025-26/055

Date: 10.10.2025

Office Memorandum

Consultancy Services for Authority's Engineer for Supervision of Construction of Missing Link from Birhu to Lathiani into 4-Lane & Paved Shoulder Configuration from Km 35/550 (Design Chainage 0.000) to 42/800 (Design Chainage 8.153) on NH-503A including Cable Stayed Bridge (0.860 Km) on Back Water of Govind Sagar Reservoir and its Approaches in Himachal Pradesh on EPC Mode. - **Bids -Reg.**

The tender for the subject cited work invited on 27.08.2025 vide tender reference no. MoRTH/PIU-HMR/Birhu-Lathiani/11/AE/2025-26/885; dated 27.08.2025 with Tender ID 2025_MoRTH_874994_1. The bid due date is on 30.10.2025 and Scheduled Bid opening date is on 31.10.2025.

2. To ensure the better participation & wider publicity, a brief of the project has been enclosed for publishing the same on Ministry's website and conveying the same to Consultants who have carried out work of Cable Stayed bridges.

Yours faithfully,

(Tanmay Mahajan)
Assistant Executive Engineer
For Project Director

To:

NIC, Ministry of Road Transport & Highways, Govt. of India, Transport Bhawan, Sansad Marg, New Delhi-110001. **With the request to upload the document on Ministry's Website.**

Copy for kind information to:

The Regional Officer, MoRTH Shimla.

BRIEF

Consultancy services for Authority's Engineer for Supervision of Construction of Missing Link from Birhu to Lathiani into 4-Lane & Paved Shoulder Configuration from Km 35/550 (Design Chainage 0.000) to 42/800 (Design Chainage 8.153) on NH-503A including Cable Stayed Bridge (0.860 Km) on Back Water of Govind Sagar Reservoir and its Approaches in Himachal Pradesh on EPC Mode.

1. Project Scope & Background:

- The project involves supervision of the Construction of Missing Link from Birhu to Lathiani into 4-Lane & Paved Shoulder Configuration from Km 35/550 (Design Chainage 0.000) to 42/800 (Design Chainage 8.153) on NH-503A including **Cable Stayed Bridge (0.860 Km) on Back Water of Govind Sagar Reservoir** and its Approaches in Himachal Pradesh on EPC Mode.
- A major component is a **Cable-Stayed Bridge** of length **0.860 km (Cable Stayed Span + Viaduct Portion)**, spanning over the **backwater / Lake of Govind Sagar Reservoir**, along with its approach works.
- The water body here is **Back Water** (i.e. reservoir impoundment) of Govind Sagar.
- The Consultant (Authority's Engineer) is to provide supervision, quality control, monitoring, and certification under the EPC contract.
- The consultancy firm **may submit the bid either individually (sole) or as part of a Joint Venture (JV)** with other eligible firms.
- The tender for the consultancy services has been **floated on the Central Public Procurement Portal: www.eprocure.gov.in** and Infracon Portal (Tender ID: 2025_MoRTH_874994_1).
- Interested firms are advised to regularly check the portal for updates and corrigendum.

2. Key Dates & Milestones:

- **Date of Award of Civil Work:** 23 April 2025
- **Project Awarded to:** M/s SPS Construction India Pvt. Ltd.
- **Project Awarded Cost:** 487 Cr.
- **Appointed date:** Will be declared in the Month of **November**.
- **Authority Engineer Tender floated / issuance date:** 28 August 2025
- **Bid due date / last date of submission:** 30 October 2025.
- **Tender ID:** 2025_MoRTH_874994_1

3. Hydraulic / Water Level Information:

- **Maximum Reservoir Level (MRL):** 515.112 m
- **Normal Reservoir Level (NRL):** 513.58 m
- **Dead Storage level (DSL):** 445.62 m

4. Major Bridge (Cable-Stayed Bridge at Chainage 4+872)

- This is the most significant structure of the project, crossing the backwater of Govind Sagar Reservoir. It has a total length of 860 meters, comprising the following span arrangement:
115 m + 250 m (main span) + 115 m + 12 spans of 30 m + 1 span of 20 m.

Key Design Features:

- Type: Cable-Stayed Bridge with PSC Box Girder.
- Pylon Shape: *Diamond-shaped* pylons are proposed for aesthetics and structural stability.
- Cable System: A **Semi-Fan type arrangement**, wherein the cables are arranged in two vertical planes. These cables are anchored at the **edges of the deck** and converge at the **centre of the pylon**, ensuring balanced support and symmetrical load distribution across the main span. This configuration enhances both the structural stability and aesthetic appeal of the bridge.
- Minimum Pylon Height: As per General Arrangement Drawing (GAD).
- Deck Width: The **deck width** of the cable-stayed bridge is designed to be **29.410 meters (36.620 m at Pylon locations)** for the main cable-stayed spans and **27.410 meters** for the approach spans, providing ample space for traffic lanes and shoulders. The bridge deck will be finished with a **50 mm thick stone mastic asphalt (SMA) wearing course**, overlaid with a **6 mm thick waterproofing membrane** to enhance durability and protect the structural components from water ingress.

5. Structural drawings provided: **3D model** and **General Arrangement Drawing (GAD)** are enclosed.





