



## Request for Proposal for

**Design and construction of New Rail Cum Road Bridge No.11 over river Ganga, 50 Meters downstream of the existing old Malviya Bridge near Kashi Railway Station, including sub structure and super structure of the Bridge (8 X 108.5 m + 2 X 103.3 m Open Web Steel Girder) for four line tracks on lower deck and six lane Road on upper deck, including Railway and Road approaches as per GAD along with associated OHE Works and General Electric works in Lucknow Division of Northern Railway at Varanasi, Uttar Pradesh, India.**

**on**

**Engineering, Procurement & Construction  
(EPC) Mode with Schedule G-1**

**Ministry of Railways**

**June 2025**

**NORTHERN RAILWAY  
(Construction Organization)**

**ENGINEERING DEPARTMENT  
Varanasi, Uttar Pradesh- 221001**

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## NORTHERN RAILWAY SECTION 1

### INTRODUCTION

#### 1.1 Background

1.1.1 The President of India represented by the Ministry of Railways, “**CPM/VARANASI/NORTHERN RAILWAY**” (the “Authority”), having its principal office at **The Chief Project Manager, Northern Railway, Construction office, Varanasi, Uttar Pradesh 221002, India** is engaged in the development of railways and related infrastructure, and as part of this endeavour, the Authority has decided to undertake “**Design and construction of New Rail Cum Road Bridge No.11 over river Ganga, 50 Meters downstream of the existing old Malviya Bridge near Kashi Railway Station, including sub structure and super structure of the Bridge (8 X 108.5 m + 2 X 103.3 m Open Web Steel Girder) for four line tracks on lower deck and six lane Road on upper deck, including Railway and Road approaches as per GAD along with associated OHE Works and General Electric works in Lucknow Division of Northern Railway at Varanasi, Uttar Pradesh, India.**” through an Engineering, Procurement and Construction (the “EPC”) Contract, and has decided to carry out an open, competitive. Bidding Process for selection of a Bidder to whom the Project may be awarded. A brief description of the Project may be seen in the Information Memorandum of the Project at the Railway website <https://ireps.gov.in>. Brief particulars of the Project are as follows:

Name of the Project	Length in km	Estimated Project Cost (In Rs. cr.)	No. of Years for completion of work
Name of Work :- “ <b>Design and construction of New Rail Cum Road Bridge No.11 over river Ganga, 50 Meters downstream of the existing old Malviya Bridge near Kashi Railway Station, including sub structure and super structure of the Bridge (8 X 108.5 m + 2 X 103.3 m Open Web Steel Girder) for four line tracks on lower deck and six lane Road on upper deck, including Railway and Road approaches as per GAD along with associated OHE Works and General Electric works in Lucknow Division of Northern Railway at Varanasi, Uttar Pradesh, India.</b> ”	2.590	1380.87 Cr.	48 months

		<p>of double D shaped well foundation in last 10 years.</p> <p>b) Structural designer with at least 15 years of experience having M. Tech in Structural engineering with experience of approved design of open web girders of span more than 100m in last 10 years.</p> <p>c) Hydraulic designer with at least 15 years of experience having M.Tech in Hydraulic engineering.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>Approved design means that the design has been approved by client and executed/in progress on site.</li> <li>In case of non-deployment of Lead designer at site within 05 days, a penalty of Rs 50,000/- per day per designer would be applicable.</li> <li>Replacement of Design Consultant is not permitted normally and can be done only once in exceptional circumstances with the permission of Authority. However, the better or at par replacement shall be proposed within 20 days to the Authority, failing which would invite a penalty of Rs. 1 Crore per month or part thereof.</li> </ol>
2	OHE Arrangements	2 X 25 KVA OHE fixed on DA suspended from soffit of road cross girder (maximum spacing of DA shall be 45 m C/C)
3	Provisions for electrical and S & T cables	Sufficient provisions shall be made in the superstructure as directed by authority

Notes: -

- 1) Reference Permanent Benchmark taken at Kashi Railway Station having the value RL (CWC benchmark near NAMO ghat) 73.149m.

Structural steel for superstructure and Reinforcement for all RCC works: Structural steel for fabrication of the superstructure shall be of any suitable grade specified in IS:2062-2011. Reinforcement steel shall be conforming to provisions of IS:1786-2008. All prestressing strands shall be conforming to IS:14268-2022.

Structural steel, Reinforcement steel for RCC & Prestressing strands for PSC shall be procured only from any of the primary manufacturers listed below:

- a. Steel Authority of India [SAIL]
- b. Rashtriya Ispat Nigam Ltd. [RINL]
- c. Tata Steel Ltd [TISCO]
- d. Jindal Steel Works Ltd. [JSW]

e. Jindal Steel & Power Ltd. [JSPL]

f. APL Apollo.

The alignment and rail levels in the approved bridge GADs must match with the proposed alignment and rail levels of the approach railway track as connection will be provided with existing track.

Payment for foundation and substructure of main bridge **upto pedestal top level (excluding bearing)** will be paid as per 'Schedule -G1', rest of the scope given under 'Schedule -B' and 'Schedule -C' to be read with 'Schedule -D' is deemed to be considered under 'Schedule -G' even though the same has not been mentioned under stage of 'Schedule - G'.

If quantities shown under Schedule G1 are reduced or not executed, there will be no any claim paid to the contractor.

If there is any increase in dimensions of any structural or non-structural member for scope mentioned under Schedule B and payable under Schedule G, due to design requirement or any other reasons, there will be no change in scope applicable. Payment of increased quantities shall be considered as covered under accepted contract price for Schedule G.

#### 1.17.2 Electrification of railway lines

##### 1. Overhead Equipment (OHE)

SN	Section	TKM	Remarks
1	Varanasi-DDU	5.6 km	Electrification work includes dismantling of existing OHE, shifting of existing OHE and construction of new OHE including modification work.

Design, Supply, Erection, Testing and Commissioning of 2x 25 kV 25 kV, 50 Hz, OHE at of Rail cum Road bridge (On the downstream side of existing Malviya Rail cum Road bridge) across river Ganga on Old GT Road near Kashi Railway Station, Varanasi in the state of Uttar Pradesh including Structures and all ancillary equipment & all types of caution, warning, instruction and protection boards at required locations Traction Station Working Rule along with sectioning diagram at required locations (TPC, Traffic control, etc.), all necessary documentation for EIG sanction and CRS Inspection, supply of all required drawings, mapping on OLIVER-G and current collection test, Breakdown attention till CRS inspection shall be done by the contractor.

All the materials to be supplied by the Contractor for Execution of Railway Electrification Project as a complete assembly or parts of sub-assemblies to be fabricated in contractor's workshop or as a complete equipment or part of it, must be procured from CORE/ RDSO approved vendors only.

All the materials to be supplied by the Contractor for Execution of Railway Electrification Project are to be Inspected by RITES before supplying the materials. The charges for RITES Inspection to be paid by the Contractor. Original RITES Inspection Certificate and Challans of approved vendors for each and every lot of supply are to be submitted to the Authority's Engineer before supply of the materials. Detailed Test Reports of RITES as well as OEM Test Reports, Manuals and certificates are to be submitted by the contractor to the Authority's Engineer before erection and commissioning of the Equipment.

The Authority, Authority's Engineer and its authorised representative shall at all times have full access to all parts of the Site to inspect the supplied materials / Equipment for their correctness as per standard as specified in Schedule 'D' of this Agreement. Maximum OHE span in the section shall not exceed 45 m.