



OFFICE OF THE EXECUTIVE ENGINEER,
TEMPORARY DIVISION, PUBLIC WORK DEPARTMENT, THATYUR
E-Mail- eepwdthatyur@rediffmail.com



Request for Quotation (RFQ)

On behalf of Her Excellency, the Governor of Uttarakhand, the undersigned invites quotations for the design of retrofitting work to upgrade 15 bridges from Class B loading to Class A loading in Tehri Garhwal district.

Quotations must be submitted in the prescribed format by **March 25, 2025**, by **3:00 PM** either at this office or via email.

All information related to the RFQ is available on the Public Works Department website:

<https://mis.pwduk.in/dms/lists-2/category/279-tenders>.

Executive Engineer
Temporary Division, PWD
Thatyur, Tehri garhwal,

List of bridges

Sl. No.	Name of Bridge	Span	Type	Location
1	Freedom fighter Shri Vishveshwar Dutt Saklani motor road (Raipur Kaddukhal state highway (Km.12, H.M. 0-2)	16.00	RCC	30.33379400, 78.14772200
2	Freedom fighter Shri Vishveshwar Dutt Saklani motor road (Raipur Kaddukhal state highway (Km.48, H.M. 2-4)	12.00	RCC	30.36219400, 78.24362800
3	Freedom fighter Shri Vishveshwar Dutt Saklani motor road (Raipur Kaddukhal state highway (Km.9, H.M. 0-2)	36.00	Steel Truss	30.35212500, 78.13997500
4	Freedom fighter Shri Vishveshwar Dutt Saklani motor road (Raipur Kaddukhal state highway (Km.50, H.M. 8-10)	36.00	Steel Truss	30.35718100, 78.26123100
5	Suakholi Almas Bhawan Sarot Chapta Nagun state highway (Km.21, H.M. 8-10)	24.50	Steel Truss	30.46574700, 78.23481900
6	Uttarkashi Ghansali Tilwara state highway-15 (Ch.-86.675)	48.00	Steel Truss	30.50138800, 78.62777700
7	Uttarkashi Ghansali Tilwara state highway-15 (Ch. – 109.880)	24.50	Steel Plate Girder	30.39333300, 78.73472200
8	Uttarkashi Ghansali Tilwara state highway-15 (Ch.-101.950)	30.50	Steel Plate Girder	30.41638800, 78.67833300
9	Narendranagar Ranipokhari state highway-77 (Km. 17)	27.50	Steel Composite Girder	30.17229200, 78.23801900
10	Narendranagar Ranipokhari state highway-77 (Km. 8)	30.00	Steel Composite Girder	30.19027700, 78.27347100
11	Lambgaon Motna Rajakhet Ghansali Sendul state highway-69 (Km. 02)	36.00	Steel Plate Girder	30.52073300, 78.50020000
12	Lambgaon Motna Rajakhet Ghansali Sendul state highway-69 (Km. 33)	18.80	RCC Bridge	30.42508400, 78.48204800
13	Lambgaon Motna Rajakhet Ghansali Sendul state highway-69 (Km. 39)	16.00	Steel Girder Birdge	30.40840500, 78.50557300
14	Lambgaon Motna Rajakhet Ghansali Sendul state highway-69 (Km. 81)	36.00	Steel Bridge	30.44349900, 78.63594900
15	Lambgaon Motna Rajakhet Ghansali Sendul state highway-69 (Km. 47)	17.30	RCC Bridge	30.40111111, 78.53916667

Instructions to Consultant (ITC)

TEMPORARY DIVISION, PUBLIC WORK DEPARTMENT, THATYUR

1. The Government of Uttarakhand has decided to conduct detail Condition survey of the existing class “B” loading bridges to be carried out to explore the possibilities of the existing class “B” loading bridges to be retrofitted & upgrade into class “A” bridges with compliance of climate resilient structures.
2. The Executive Engineer, Temporary Division, PWD, Thatyur (hereinafter the client) on behalf of the Governor of Uttarakhand requests Quotation from the Bridge Design Consultants (hereinafter the tenderer) for the prepare **Condition Survey Report of the existing class “B” bridges required for the upgradation of the bridges into Class “A” loading bridges including conducting Visual Inspection, Non destructive testing of Steel & Concrete Structure, Condition Assessment Report** (As Per TOR).
3. The details of the activities to be performed by the selected consultant along with the list of deliverables and their submission schedule is provided in the Terms of Reference (ToR) enclosed with this document.
4. The interested consultant shall submit their Proposal along with a quotation for carrying out the tasks defined in the Terms of Reference (ToR). The consultant must provide the rate for each bridge on a separate sheet, following the prescribed format specified in the ToR
5. The cost for providing local transportation, accommodation and incidental expenses to the experts deployed by the selected consultant shall be borne by the consultant and shall be deemed to be included in the quoted price.
6. The consultant is required to quote only the basic rates excluding GST. GST shall be paid extra as per the prevailing rates.
7. All prices shall be quoted by the consultant in Indian Rupees (INR)
8. The proposal shall remain valid for Ninety (90) days following the date of closing of tender. A proposal valid for a shorter period will be rejected on the grounds that it is non-responsive.
9. This Request for Proposal does not commit the client to award a contract or to reimburse the consultant for costs incurred in submitting this proposal. The client reserves the right to reject any or all proposals received as a result of this request.

10. Proposals received after the time specified shall not be considered.

11. The proposal should be submitted to the following address:

Executive Engineer
Temporary Division, Public Works Department
Thtyur, Tehri Garhwal

Mil ID - eepwdthatyur@rediffmail.com

Eligibility Criteria for Selection of Design Consultant

The consultancy firm must meet the following eligibility criteria to be considered for the selection process:

1. **Financial Capability:** The firm must have an average annual turnover of at least **₹ 2 crore** in the last **three financial years**.
2. **Experience in Bridge Design:** The firm must have a minimum of **five years of experience** in the field of bridge design and structural engineering.
3. **Retrofitting Expertise:** The firm must have successfully designed at least **two retrofitting projects** for motor bridges with a **minimum span of 20 meters** in the last **five years**.
4. **Non-Debarment Declaration:** The firm must not have been **debarred or blacklisted** by any **State Government, Central Government, or any government agency** at the time of submission.

Firms that meet the above criteria are encouraged to submit their proposals in accordance with the prescribed guidelines.

Terms of Reference (TOR)

1. Introduction:-

Uttarakhand is a land of steep Himalayan Mountains, dense perennial river networks, home to a host of pilgrim and tourist places, attracting thousands of people from across the world. Uttarakhand State Public Works Department (PWD) is maintaining 33046.57 km length of different category of roads & 3564 number of motorable & bridle bridges having significantly impacts on economic growth by improving connectivity, facilitating trade, boosting productivity, creating jobs, attracting investment, and enhancing overall quality of life. Mountain roads are typically one or two lanes, but category B class loading bridges limit heavy vehicle movement, hindering power, rail, ropeway & other large projects. Uttarakhand is also highly prone to landslides due to its mountainous terrain, steep slopes, fragile geology, heavy rainfall during monsoon season, and the presence of active tectonic plates.

Disaster & climate resilient bridge network development will enhance & improve the load carrying capacities of bridges. Upgradation of class “B” loading bridges class “A” loading bridges will have positive long term impact on the state’s economy & living standard of the rural population, generate employment, boost tourism & improve disaster response.

Condition survey of the existing class “B” loading bridges to be carried out to explore the possibilities of the existing class “B” loading bridges to be retrofitted & upgrade into class “A” bridges with compliance of climate resilient structures. Climate resilience is generally considered to be the ability of the structure to recover from, or to mitigate vulnerability to, climate-related natural hazards & shocks such as earthquakes, landslides, cloud burst, floods and droughts. It is a process that strengthens the ability of all to mitigate vulnerability to risks from, and adapt to changing patterns in, climate hazards and variability.

2. General Instructions:-

- i. All work shall be executed in strict compliance with the Terms of Reference (TOR) and the provisions of IRC SP: 40-2019, IRC SP:37-2010, IRC SP:75-2008, IRC SP: 35- 1990, IRC SP: 51-1999, IRC SP: 52-1999, IRC SP: 60- 2002,IRC SP: 78- 2008, IRC SP: 80-2008 and other applicable codes.
- ii. Carry out a condition Survey of Superstructure, Substructure, bearings and Protection work through a detailed visual inspection of all bridge components. Visual Inspection is to be documented in worksheets, Photographic records and drawings.
- iii. Perform Non-Destructive Testing (NDT) on bridge components to determine their load-carrying capacity, strength, and suitability for use in the retrofitted superstructure and substructure. All test will be conducted through NABL accredited laboratory.
- iv. The consultant shall conduct Geological investigation and hydrological investigation.
- v. Document the findings of visual inspections, Non-Destructive Testing (NDT), and all geotechnical, geological, and hydrological investigations in a comprehensive report include photographic evidence of damage or distress, and provide a detailed interpretation of the

results. The report must clearly state the condition of all superstructure members, connections, bearings, and substructure components, and indicate the location of each test.

- vi. Conduct a structural analysis using IRC Class A / AA / 70 R live load to evaluate and report the load rating of the existing structural components.
- vii. Provide structural drawings that provide complete details, including section sizes and connection details, accurately reflecting the present condition of each component.
- viii. Analyze the existing superstructure and substructure for revised live load conditions as per IRC 6:2017, and provide a comparative analysis of developed stresses resulting from the revised loads and load combinations.
- ix. The consultant will analyze the residual life of the existing bridge & clearly mentioned in the report about the enhanced life of the bridge after retrofitting.
- x. Prepare a detailed report specifying members to be replaced, strengthened, or repaired, and any additional members required. Subsequently, analyze the structure with these modifications for revised loads and load combinations to verify the suitability of the proposed remedial measures. Also, assess the potential for stress reversals in the superstructure members.
- xi. Carry- out stability analysis for the retrofitted substructure, assess any additional protection work requirement and prepare design and drawings as per requirement.
- xii. Redesign the bearings for the new loads and load combinations. Evaluate the suitability of the existing bearings and replace them if necessary.
- xiii. Deduction in payment will be done by the department for investigations which will be provided to consultant by the department i.e. Drawings of existing bridge, Geological investigation and Hydrological investigation report etc. of existing bridge.
- xiv. On completion of the work mentioned above the consultant will prepare and submit six set of **Condition Survey Report** including condition of Foundation, Sub-Structure Super-Structure, Bearings & protection work of existing bridge with due consideration of climate resilience structures to the scale drawing , feasibility of upgrading the **Existing "B" Class Loading bridge in "A" class loading Bridge on Roads under Jurisdiction of Public Works Department Uttrakhand** as per direction of Engineer-In-Charge in hard copy as well as in soft copy in CD.
- xv. Visit site of work when necessary to clarify and decision or interpretation of the drawing and specification that may be necessary and attend conference and meetings as and when required and to ensure that project proceed generally in accordance with the condition of contract.

3. Schedule of Services:-

Sr. No.	Parameter	Activity to be performed as per IRC :SP:40-2019	% of the cost of task	Time Line from the issuing date of start (Cumulative)
A	Condition survey			
I	Visual Inspection of 1. Superstructure 2. Substructure 3. Bearings 4. Protection Works	1- Carry out a condition survey of the superstructure, substructure, bearings and protection work through a detailed visual inspection of all bridge components. Visual inspection to be documented in worksheets, photographic records and drawings.	15%	7 Days
II	Non-Destructive Testing of concrete and steel	2- Carry out non-destructive testing on the various components of the bridge to ascertain their quality and strength and suitability for use in the retrofitted superstructure and substructure.	25%	12 Days
III	Condition Assessment Report	1. Present the findings of visual inspection and nondestructive testing with photographic evidence of the signs of damage/distress and interpretation of results in the form of report mentioning the status of the various members and connections of the superstructure, bearings and components of the substructure indicating the location of the test. 2. Carry out analysis for IRC Class A live load and present raring of the structural components for this load. 3. Prepare the structural drawings with complete details and section sizes and connections showing the present condition of the components.	40%	30 Days
Iv	Submission of the Condition assessment report to PWD	1. Submission of the Condition assessment report to PWD with due consideration of all assignment as mentioned above & with all codal provisions of the related latest updated IRC codes with due consideration of the retrofitted bridges comply with the requirements of the climate resilient bridge.	20%	35 Days

4. **Additional Services:-** Amend drawings and / or specification or prepare new drawing and / or amend drawing of existing bridges.

5. **Travelling Allowances:-** No travelling allowance is shall be paid to Consultant for site visit in this account.

6. **Payments:-** All payment to the consultant shall be paid by the nodal division with whom agreement has framed with consultant after deduction of all applicable taxes.

7. **Project Officer:-** _The executive control of the work shall be of the Executive Engineer of the concern division under whom jurisdiction the bridge lie and shall be authorized to instruct & advice on the

investigations carried out by the Consultant. The Consultant shall act only on written communication or in emergency on oral communication to be confirmed there after in writing by the concern Executive Engineer. Condition assessment report will be approved by the concern Superintending Engineer of the circle. The project officer after satisfying himself will recommend for the payment to the nodal division.

8. Discharge of function to be performed by the Consultant: The Consultant here by agree that the fees to be paid as provided here in will be in full discharge of function to be performed by the and no claim whatever shall be against the employer in respect of the any proprietary right on part of any party relating to the plans, models and drawing. The Consultant shall be indemnified and keep indemnify the employee against any such claim and against all costs and expense paid by the employer in defending themselves against such claims. The consultant shall always keep the employer indemnified against and claim concerning any other party in connection with the discharge of their responsibilities under the agreement.

In the event of the failure of the consultant to complete and do the work within the time schedule agreed upon and in a satisfactory manner or in the event of the consultant committing a breach of any one or more of the terms and conditions of the agreement without prejudice to the right to claim damage any rights to remedies under the law.

9. Penalty:- Penalty @10% shall be imposed for not conducting the inspection & test & not submitting the required reports on time on the payment regarding to the event.

10. Transfer:- Neither the Employer nor that Consultant shall assign or transfer the benefits or obligation of this agreement to any party here of without the written consent of the other.

11. Assign Ability:- The consultant and the employer each binds itself, it successors , legal representative and assignees to other party to this agreement and to the successor or legal representative and assignees of such other party in respect of the covenants of this agreement.

12. Termination:- In the event of non compliance of the conditions of the contract by the consultant, the employer will terminate the agreement after serving the notices.

13. Data, local services and facilities to be provided by PWD :-

The following shall be made available to the consultants.

- i. Access to reports available with Govt. of Uttarakhand.
- ii. The Consultants shall verify the correctness of the data/information provided by the PWD and satisfy them about the accuracy of data/information /material before these are used. Data/information /material provided to the consultants shall remain the property of the originating agency and shall be provided solely for the purpose of the work to be done under this contract. All such borrowed material shall be returned to the PWD upon completion of the assignment.
- iii. The consultants shall arrange its own equipment (vehicles, survey equipment, office and computer equipment, telecommunication and document printing and reproduction systems) including office space and furniture required for operational purposes. The consultants shall make own arrangement for travel /stay for performing the assignment.

14. Execution of the Assignment:-

i. All the stages of work shall be completed by the consultant, and necessary approval given by the PWD according to the time schedule mentioned earlier. The work throughout the stipulated period of the contract will be carried out with diligence, time being the essence of the contract.

ii. In the event of consultant firm closing its business, the client shall have the power to employ any other agency to complete the work after payment has been made to the consultant unto the stage of service then in progress.

iii. The consultant shall assume full responsibility of the design as per latest IRC codes & Bridge codes including earthquake related codes and specification for item described in the scope of work.

iv. The consultant shall supply to the client free of cost six sets of drawings. Any additional set required by the client shall be paid for on actual cost basis.

v. The consultant shall advise client regarding the work under execution during visits to the site and submit periodic reports on his observations. The responsibility for implementation of this advice shall be of client.

vi. The consultant shall not make any deviation, alternation or omission from the approved drawing involving financial implications without prior consent of client.

vii. The consultant shall make necessary revisions, as may be required by the client in the drawing and documents submitted by him.

ix. The drawings, specification and documents submitted by the consultant to the PWD will be the property of department & department reserves all the right to use them for any other project whenever and wherever required.

x. The PWD shall have the liberty to postpone or not to execute any work and the consultant shall not be entitled to any compensation for non execution of the work except the fees which are payable to the consultant unto the stage of services then in progress.

15. Procedure for Disputes:- All the disputes arising out during the execution of the contract between the PWD & consultant, Chief Engineer of the concern zone will be authorized for the dispute resolution.

16. Confidentiality & Security:- The Consultant must ensure the protection, security and confidentiality of information and data created according to the TOR that is considered private and / or legally protected.

Cost of the Services quoted by the Consultant (Financial Proposal excluding GST)

(Separate Format of Cost for Each Bridge To Be Submitted)

Sr. No.	Parameter	Activity to be performed as per IRC :SP:40-2019	% of the cost of task	Total financial proposal quoted excluding GST
A	Condition survey			
I	Visual Inspection of 1. Superstructure 2. Substructure 3. Bearings 4. Protection Works	1. Carry out a condition survey of the superstructure, substructure, bearings and protection work through a detailed visual inspection of all bridge components. Visual inspection to be documented in worksheets, photographic records and drawings.	15%	
II	Non-Destructive Testing of concrete and steel	1. Carry out non-destructive testing on the various components of the bridge to ascertain their quality and strength and suitability for use in the retrofitted superstructure and substructure.	25%	
III	Condition Assessment Report	1. Present the findings of visual inspection and nondestructive testing with photographic evidence of the signs of damage/distress and interpretation of results in the form of report mentioning the status of the various members and connections of the superstructure, bearings and components of the substructure indicating the location of the test. 2. Carry out analysis for IRC Class A live load and present rating of the structural components for this load. 3. Prepare the structural drawings with complete details and section sizes and connections showing the present condition of the components.	40%	
IV	Submission of the Condition assessment report to PWD	1. Submission of the Condition assessment report to PWD with due consideration of all assignment as mentioned above & with all codal provisions of the related latest updated IRC codes with due consideration of the retrofitted bridges comply with the requirements of the climate resilient bridge.	20%	

- **GST on the services will be paid as per applicable GST rate on services.**

1- Details of the Consultancy Firm

S.No.	Description	Details
1	Name of Firm	
2	Registered address of consultancy firm	
3	Telephone Number	
4	Email id of the consultancy firm	
5	Name of Authorized Person	
6	Mobile number of authorized person	
7	Legal Status of the consultancy firm	
8	Date of incorporation of the consultancy firm	
9	Email id of authorized person	
10	List of documents enclosed showing legal status of organization	
11	Power of Attorney of Authorized Person (if applicable)	
12	Enclose self-attested copy of order of empanelment in Uttarakhand PWD	
	GST Registration Details (enclose self-attested copy of the GST registration)	
	PAN Details (Enclose self-attested copy of PAN Card)	

2- Experience Detail :

As per Eligibility criteria the Consultant has to showcase his work with relevant details, certificates from employer etc.

3- Turnover Detail of Last three Years :

Signature:

Name of Authorized Person:Name
of Consultancy Firm: Designation:

Address:

Place:

Date:

Seal of the Consultancy Firm:

Format for Agreement

This agreement is made at on this date-----day of-----Two Thousand and Twenty, Five.

BETWEEN

Executive Engineer,, Public Works Department of Uttarakhand having its office at , here after referred to as PWD (which expression unless. It be repugnant to the context of meaning therefore shall include its successors and assigns) of its FIRST PARTY.

AND

M/S, Herein after referred to as “the Consultant “(Which expression unless it be repugnant to the context of meaning there of shall mean and include its successors and assigns) or the SECOND PARTY.

WHEREAS

PWD has been assigned to prepare **Condition Survey Report of the existing class “B” bridges required for the upgradation of the bridges into Class “A” loading bridges** including conducting **Visual Inspection, Non destructive testing of Steel & Concrete Structure, Condition Assessment Report**. The assessment is required to upgrade **the existing Class ‘B’ loading Bridge in “A” class Loading Bridge on Roads under Jurisdiction of Public Works Department Uttarakhand with due consideration of climate resilient structures**. Consultant M/s..... shows to PWD that they have the required experience, professional skills, personnel and technical resources for the captioned work and are in a position to mobilize the same, have agreed to carry out the service as defined in the scope of work on mutually agreeable terms and condition Listed hereinafter.