



Government of Tripura
Public Works Department (R & B)

**Request for Proposal (RFP) for
“Consultancy Services for preliminary and detailed
Engineering including preparation of detailed project
report for construction of 11(Eleven) Nos. of permanent
bridges at different locations on the State road network.”**



Issued By :
Office of Superintending Engineer, Planning Circle
PWD (R&B), New Secretariat Building, Agartala
Phone- 0381-2416658, Fax-0381-2416658

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DNIT NO: 66/ PWD(R&B)/ACE(P)/RDQP/2016-17

Approved

Sd/-

Additional Chief Engineer,
Planning Circle, PWD(R&B),
New Secretariat Complex, Agartala.

Government of Tripura
Office of the Superintending Engineer
Planning Circle, PWD(R&B)
Agartala.

No. F. 3 (22)/PC /RDQP/

Dated 18 /4/2017.

Subject : - Consultancy Services for preliminary and detailed engineering including preparation of detailed project report for construction of **11(Eleven)** Nos. of permanent bridges at different locations on the State road network.

LETTER OF INVITATION(LOI)

Proposals are hereby invited on behalf of the 'Governor of Tripura' from eligible Consultants for Consultancy Services for preliminary and detailed engineering including preparation of detailed project report for construction of **11(Eleven)** Nos. of permanent bridges at different locations on the State road net work as per the Consultancy Documents attached.

The Request for Proposal (RFP) should reach to the office of the undersigned up to 3.00 PM on **18th May, 2017**.

The Proposal of the intended consultants can be send through Registered Post/speed Post or dropped in the tender box/boxes at the office of **the Superintending Engineer, Planning Circle, PWD(R&B), New Secretariat Building, Agartala, Tripura (W)**, so as to reach or dropped well within the last date & time for receipt as specified above.

The Notice along with the Consultancy Documents can also be seen and downloaded from the website: www.tenders.gov.in and/ or www.tripurainfo.com

For and on behalf of the Governor of Tripura

(Er. A. R. Roychoudhuri)
Additional Chief Engineer,
Planning Circle, PWD(R&B),
New Secretariat Complex, Agartala.
Tripura 799010. Tel/Fax : 0381-2416658,

CONSULTANCY DOCUMENT

SECTION - 1**: INFORMATIONS TO THE CONSULTANTS:**

- 1.1** Additional Chief Engineer, Planning Circle, Public Works Department (R&B), Government of Tripura invites on behalf of the Governor of Tripura proposals from Experienced Firm/Consultants for necessary Consultancy Services as per the scope of works and terms & conditions contained in the attached TERMS OF REFERENCE (TOR).
- 1.2** The Client, Chief Engineer (R&B), PWD, Government of Tripura will select a firm among those who submit their offer for this project in accordance with the method of selection indicated in the Data Sheet and other relevant clauses contained in this consultancy documents.
- 1.3** The proposals submitted by the Consultants shall be the basis for contract negotiations and ultimately a contract will be signed with the selected firm(s) for Consultancy Services of this work.
- 1.4** Consultants must familiarize themselves with local conditions and consider these into account in preparing their proposals. To obtain first hand information on the assignment and on the local conditions, they are advised to pay visit to the project sites before submitting their proposal. They may contact the Officials named in the data sheet to obtain additional information related to the assignment.
- 1.5** The Client will provide the following inputs and assist the Consultants in obtaining license and permits to carry out the services.
- i) Relevant particulars / information in respect of the existing roads and bridges as available with the client.
 - ii) Any other particulars / information as required by the Consultants and available with the Client.
 - iii) Tripura Schedule of Rates – latest revision.
- 1.6** Please note that (i) the cost of preparing the proposal and of negotiating the contract, including visits to the Client's Office & project sites, etc. are not reimbursable as a direct cost of the assignment, and (ii) the Client is not bound to accept any of the proposal submitted.
- 1.7** **MINIMUM ELIGIBILITY CRITERIA**
- 1.7.1** A Consultant is ineligible to submit a proposal, if it or any of its constituents has been barred by any Central and/or State Govt in India.
- 1.7.2** A Consultant should have, during the last three years, neither failed to perform on any agreement, nor been expelled from any project or agreement nor have any agreement terminated for breach by the Applicant.
- 1.7.3** Annual Turnover –
- i) Must have completed the consultancy work of at least 15 (fifteen) nos RCC Bridges having length not less than 30 mtr. for each of the RCC Bridge during last three financial years. The consultant must submit details as per APPENDIX – A.
 - ii) Minimum total turnover of the firm from consultancy services shall be Rs.10.0 Crore during last five years preceding the years ending March 2016. An adjustment factor of **8% per year** may be used to bring the financial figures to a common base for the purpose of evaluation of annual turnover.
- 1.7.4** Availability of STAAD Pro Software.

Signature of the Bidder with Date & full Address

<http://tripurainfo.com/Tenders.aspx>

1.8 DOCUMENTATION COMPRISING THE RFP:

1.8.1 Consultants may request clarification(s) of any of the RFP document up to the number of days indicated in the Data Sheet before the Proposal submission date. Any request for clarification must be sent in writing by paper mail, cable, telex, facsimile or electronic mail to the Client's address indicated in the Data Sheet. The Client will respond by cable, telex, facsimile or mail to such request.

1.8.2 At any time before the submission of proposals, the Client may, for any reason, whether at its own initiative or in response to a clarification requested by any intending Consultant modify the RFP documents by amendment. The Client may at its discretion extend the deadline for the submission of proposals.

1.9 PREPARATION OF PROPOSAL:

1.9.1 In preparing the proposal, Consultants are expected to examine the documents comprising this RFP. Material deficiencies in providing the information requested might result in rejection of a proposal.

1.9.2 The Proposal should provide the following information :

- (i) Any comments or suggestions on the Terms of Reference and on the Data Sheet, services and facilities to be provided by the Client, and a description of the methodology (work plan) by which the firm proposes to execute the services, illustrated, as appropriate, with bar charts of activities and graphics etc.
- (ii) The activity schedule supported by chart, diagrams showing the time proposed for each activity as specified in the TOR.

1.9.3 The Consultants are expected to take into account the requirements and conditions of the RFP documents. The financial proposal should list all cost associated with the assignment. The cost should be broken down as per the services to be rendered as stipulated in TOR.

1.9.4 The proposal should include all the taxes (including service tax), Duties, levies, fees and other charges imposed under the applicable law on the Consultants and their personnel unless the data sheet specifies otherwise.

1.9.5 The Consultants shall submit the FINANCIAL PROPOSAL as per the format appended herewith as APPENDIX – C which should be sealed in a separate envelope indicating the subject clearly.

Offered rates should be inclusive of all expenditures to be incurred related to project for successful completion of the items as per TOR and submission of final reports. State PWD may increase or decrease the number of bridges or deduct any activities as specified in the TOR under this assignment during the activity period without assigning any reason, for which consultancy charges shall be paid/ deducted as per the accepted rate schedule.

1.10 SUBMISSION, RECEIPTS AND OPENING OF PROPOSAL:

1.10.1 Consultants should prepare and submit one original and two copies of their proposals. Each proposal should be marked " Original" or ' Copy " as appropriate. If there is any discrepancy between the Original and the Copies of the proposal, the Original shall govern.

1.10.2 The Consultant shall have to deposit an amount of ` **1.0 lakhs (Rupees One Lakh)** in the name of the Executive Engineer, Agartala Division No. I, PWD(R&B), Agartala in the shape of Earnest Money Deposit along with the Bid Documents in the form of

- a) A bank demand draft on any scheduled bank / Nationalized bank.
- b) Deposit at call on any scheduled bank / Nationalized bank.

1.10.3 Each Applicant will submit the Earnest Money Deposit and a Financial Proposal in separate sealed envelopes clearly marked as "EMD" and "Financial Proposal" respectively. The third sealed envelope should

Signature of the Bidder with Date & full Address

<http://tripurainfo.com/Tenders.aspx>

contain all other documents that are necessary as per RFP clauses and should be marked as “Technical Proposal”. The three sealed envelopes should be put inside one large envelope along with a suitable covering letter. The subject indicated in LOI should be clearly indicated on the outer envelope.

1.10.4 The proposal shall be submitted along with Proposal Submission Form as per APPENDIX – B.

1.10.5 The Client reserves the right to accept or reject any application and to cancel the entire process without any liability.

1.10.6 Proposals of only those Applications who have deposited the Earnest Money Deposit in the prescribed format would be taken up for evaluation of Technical Proposal.

1.10.7 An authorized representative of the firm should sign every page of the Consultancy Document. The representative’s authorization must be confirmed by a written Power of Attorney accompanying the proposal.

1.10.8 The Original and all copies of proposal shall bear the submission address, name of work and name & address of the bidder.

1.10.9 The proposal shall be valid for 90 (ninety) days from the last date of receipt of bids as indicated above. The Client shall have the option to seek further validity of offer by another 30 (Thirty) days.

1.10.10 The original proposal shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the applicant itself. Any such corrections must be initiated by the person or persons who sign(s) the Proposals.

1.10.11 Completed proposal must be delivered at the submission address on or before the time and date stated in the Data Sheet. Any proposal received after the closing date and time for submission of proposal, shall not be considered for opening and shall be returned unopened.

1.10.12 The proposal shall be opened on the date & time stated in the Data Sheet, if possible.

1.11 PROPOSAL EVALUATION:

1.11.1 A two-stage procedure will be adopted in evaluating the Proposals for each package. In the first stage, a Technical evaluation will be carried out prior to opening of Financial Proposal. In the second stage, Financial Proposal of all eligible firms shall be opened and evaluation will be carried out.

1.11.2 Financial Proposals will be opened only for those Bidders whose Technical Proposal equal to or more than the minimum qualifying criteria as indicated in **Clause 1.7**

1.11.3 Consultants shall not contact the Client on any matter relating to their proposal from the time of the opening of the proposal till the contract is awarded. If the firm wishes to bring additional information to the notice of the Client, it should do so in writing at the address indicated in the Data Sheet. Any effort by the firm to influence the Client in the Client’s proposal evaluation may result in rejection of Consultants proposal.

1.11.4 The Client will determine whether the proposal is complete and correct in all respects as per the RFP. The Client reserves the right to declare any proposal informal if the proposal is found incomplete in any respect.

1.11.5 Selection of Consultants shall be based on the lowest evaluated responsive proposal for the activities to be performed as per TOR.

1.12 NEGOTIATIONS:

1.12.1 Negotiations shall be held at the address indicated in the Data Sheet. The aim is to reach to an agreement on all points and sign a contract.

1.12.2 Negotiations will include discussions on the technical aspects, the proposal methodology (work plan), and any suggestion made by the firm to improve the **Terms of Reference (TOR)**. The Client and Firm will than work out agreed final Terms of Reference, bar chart indicating activities, logistics and reporting. The agreed work plan and final Terms of Reference will than form part of the contract. Special attention will be paid on optimizing the required output from the firm.

1.12.3 The financial negotiation will include clarifications of the Consultancy charges claimed by the firm for different activities and the reasonability towards acceptance.

1.12.4 The negotiations will conclude with review of the draft form of the contract. To complete negotiations the Client and the Firm will initial the agreed Contract. If negotiation fails, the Client will invite the Firm that submits the second lowest responsive financial proposal for negotiation.

1.13 AWARD OF CONTRACT:

1.13.1 The contract will be awarded, following negotiations, with the successful Firm. The successful Firm shall have to enter into an agreement with the Department as agreed to during negotiations.

1.13.2 The Firm is expected to commence the assignment on the date and at the locations specified in the Data Sheet.

1.13.3 Considering the performance of the Firm, the Client may decide to award additional/deviated work up to 100% of the agreement value with same rate, terms & condition of the agreement.

1.14.0 PAYMENT SCHEDULE

1.14.1 The Consultant shall be paid his fees (amount for each Bridge) as per the schedule below. The Payments shall be released in stages as indicated –

Serial No.	Milestones	Break-up for Payments
1)	On completion of Feasibility Study and submission of Preliminary Project Report with site plan and approval of the Client.	5%
2)	Submission of Draft Project Report and Tender drawing. (Payment will be released after attending Clients observation on Draft Project Report.) Soft/Mother copies(Editable) also to be submitted.	30%
3)	Submission & approval of Final Detailed Project Report. Soft/Mother copies(Editable) also to be submitted.	40%
4)	Submission & approval of Detailed Working drawings, specifications, quality assurance etc.	25%

1.14.2 The soft/Mother copies with editable format and all relevant drawing in AutoCAD (editable) format as per satisfaction of PWD to be submitted. No payment will be released without Soft copies of appropriate format.

1.14.3 For any revision of design & drawing or any suggestion sought for during and till actual completion of the Bridges the Consultant should attend & provide necessary revised drawing

& design without any extra payment.

1.15.0 **SEQUENCE/ TIME SCHEDULE FOR SUBMISSION OF DOCUMENTS .**

Serial No.	Milestones	No of Hard copies to be submitted	No of days
1)	Submission of Feasibility Study and Preliminary Project Report and site plan.	5(Five)	30
2)	Submission of Draft Project Report and Tender drawing. Soft/Mother copies(Editable) also to be submitted.	3(Three)	60
3)	Submission of Final Detailed Project Report. Soft/Mother copies(Editable) also to be submitted.	6(Six)	15
4)	Submission of Detailed Working drawings, Structural drawings, specifications, quality assurance etc.	6(Six) <i>*In addition, one copy of drawings in tracing sheet shall be submitted.</i>	15

The No of days for each of the assignments will be reckoned after communicating approval by the Client.

1.16 **CONFIDENTIALITY:**

Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the Consultants who submitted the proposal or to other person not officially concerned with the process, until the award of contract is notified to the successful firm.

SECTION – 2

DATA SHEET			
2.1		The name of the Client	: The Addl. Chief Engineer (Planning), PWD(R&B), Government of Tripura.
2.2		Method of Selection	: Lowest evaluated responsive proposal.
2.3		The name, Objectives and description of the assignment are	
	i	Name	: Consultancy Services for preliminary and detailed engineering including preparation of detailed project report for construction of 11(Eleven) Nos. of permanent bridges at different locations on the State road network.
	ii	Objective	: Public Works Department, Government of Tripura intent to replace some of the existing Timber Bridges/bailey bridges on its road network by permanent RCC bridges and /or to construct new RCC bridges to improve connectivity. To construct 11(Eleven) Nos. of permanent bridges at different locations on the State Road Network under Rural Infrastructure Development Fund (RIDF) and other funds.
	iii	Description	: To provide information and assessment for appraisal of the project including preliminary survey, detailed survey, detailed Geo-technical investigation, detailed engineering etc. complete as per the detailed Terms of Reference (TOR).
2.4		The Client name, address and Telephone No., Fax No.	: The Addl. Chief Engineer (Planning), PWD (R&B), Government of Tripura, Agartala – 799010., Tel No. 0381-241-6658, Fax No. 0381-241 6658/ 2414073. Email : cetripura@yahoo.co.in
2.5	a.	The Number of Days to request/seek clarification.	: At least 10 (ten) days before the last date of submission of proposal.
	b.	The address for requesting clarification is	: The Addl. Chief Engineer (Planning), PWD (R&B), Government of Tripura, Agartala – 799010., Tel No. 0381-241-6658, Fax No. 0381-241-6658/ 241-4073. Email : cetripura@yahoo.co.in
2.6		The language to submit the proposal	: English
2.7		The proposal must remain valid for 90 days after the submission date	: Yes
2.8		Consultants must submit one original and one No additional copy of the proposal	: Yes

Signature of the Bidder with Date & full Address

<http://tripurainfo.com/Tenders.aspx>

2.9		The proposal submission address is	:	Addl. Chief Engineer, Planning Circle, PWD, New Secretariat Complex, Tripura, Agartala, 799010. Tel No: 0381-241-6658, Fax No: 0381-241-4073 / 241 - 6658 Email : seplanning_rb@yahoo.com
2.10		Proposal must be submitted not later than	:	Up to 3:00 PM on 18-05-2017
2.11		The date, time and the address where the proposals will be opened	:	The proposal will be opened at 3:30 PM on 18-05-2017,if possible. In case of holiday it will be opened on the next working day.
				Address : - Addl. Chief Engineer, Planning Circle, PWD, New Secretariat Complex, Tripura, Agartala, 799010. Tel No: 0381-241-6658, Fax No: 0381-2414073/ 241 - 6658 Email : seplanning_rb@yahoo.com
2.12		Address for negotiation is	:	Addl. Chief Engineer, Planning Circle, PWD, New Secretariat Complex, Tripura, Agartala, 799010. Tel No: 0381-241-6658, Fax No: 0381-2414073/ 241 - 6658 Email : seplanning_rb@yahoo.com
2.13		The assignment is expected to commence on	:	12-06-2017
2.14		Stipulated time for completion of the assignment	:	Three Months from the date of commencement Time is the essence of this contract and shall need to be strictly adhered to.
				<i>Date of commencement shall be reckoned from the 15th day of the issuance of work order</i>
2.15		Whether the Client deserves the right to distribute the assignment between more than 1 (one) consultants at any proportion without showing any reason?		Yes

SECTION – 3

CONSULTANTS' BRIEF / PROJECT DESCRIPTION

Public Works Department, Government of Tripura intent to replace some of the existing Timber Bridges/bailey bridges on its road network by permanent RCC bridges and /or to construct new RCC bridges to improve connectivity by constructing **11(Eleven)** of permanent bridges at different locations on the State Road Network of Tripura under Rural Infrastructure Development Fund (RIDF) and other funds.

Proposals are therefore invited from the Experienced Consultants/Firms for Consultancy Services for preliminary and detailed engineering including preparation of detailed project report for construction of **11(Eleven)** of permanent bridges at different locations on the State road network as per the enclosed list of the bridges and Terms of Reference (TOR). Major components of the Consultancy Services i.e. for preparation of the detailed project report are as follows:

- Preliminary survey for finalization of the Permanent bridge alignments.
- Detailed survey preferably based on great trigonometrical survey (GTS) and collection of hydraulic data.
- Preparation of hydraulic particulars.
- Detailed geo-technical investigations.
- Feasibility study and Economic viability assessment.
- Detailed design of bridge proper, approach roads, river training works, diversion etc.
- Preparation of detailed working drawings showing reinforcement arrangements for all components and other structural details necessary for actual execution at site.
- Preparation of specifications for all aspects of the works.
- Preparation of detailed cost estimate supported by Bar Bending Schedule (BOQ should be prepared bridge wise separately for bridge proper, approach roads, river training works, diversion etc.).
- Time framed should indicate the propose “Zero” date for commencement and also provided PERT/CPM/BAR Chart, whenever relevant.
- Technical aspects shall be strictly followed in conformity with the relevant IRC Code of Practices (latest revision), BIS Code of Practices (latest Revision) and Ministry of Road Transport & Highways Specifications for Road & Bridge Works (Latest Revision).

TERMS OF REFERENCE (TOR)

3.1 Background:

Road transport is the primary mode of transport in the State of Tripura. Due to its topographical conditions, the road network has to negotiate a number of streams and rivers resulting in a large numbers of cross drainages. The cross drainages were provided earlier with timber bridges as an adhoc temporary measure due to limited fund and easy availability of local timber at that time. These Timber Bridges are, however, the weakest links in the communication network. Over the past few years timber resources have been depleted and it has become extremely difficult to carry out maintenance and reconstruction of timber bridges, as quality timber is not available. Some bailey bridges were also installed during past several years a few of which require replacement.

The State PWD therefore, felt the need to replace the existing temporary (timber/bailey) bridges and to construct new Permanent bridges for efficient traffic circulation in phases on priority basis. Consultancy Services are therefore invited for preliminary and detailed engineering including preparation of detailed project report for construction of **11(Eleven) nos.** of Permanent bridges at different locations on the State road network.

3.2 Scope of Services:

3.2.1. Preparation of DPR -The scope of services emphasize preparation of detailed project report (DPR) based on preliminary survey, detailed geo-technical sub-soil investigation and detailed engineering along with detailed price/cost estimate for bridge proper, immediate approach roads and other relevant allied works. The Consultants shall be in obligation to attend the observations offered by the Project Sanctioning Authority, if any, and to modify their report / design / drawings accordingly. The Consultants shall also be in obligation to advice the client / modify any part of the project including structural design / drawing, if any difficulty is faced during actual execution of the project as per site condition. The main tasks of the preparation of DPR are as follows:

3.2.2. Task –I : Preliminary Survey:

The Project envisages constructing new Permanent bridges. Preliminary survey is to be conducted to prepare the technically feasible alignment, alternative plans and the appropriate alignments for the Permanent bridges is to be finalized on the basis of technical as well as economical consideration. All relevant techno-economic data required for preparation of feasibility report including traffic data should be collected against this task.

3.2.3 Task –2 : Detailed Survey and collection of Hydraulic Data:

The task to be executed under this activity will include, but not be limited to, those set out below:

- a) The task broadly involves detailed survey for Bridge proper, Approach Roads, and other necessary allied works shall be in accordance with the IRC/MoRTH provisions.
- b) To review the feasibility of Permanent bridge alignment as finalized through preliminary survey and identify the locations, if any, where adjustment might be required.
- c) To conduct detailed survey for preparation of hydraulic particulars and proposal for the bridge.
- d) To collect both land and bathymetric information for preparation of hydraulic particulars.

- e) To Prepare relevant drawings based on the detailed survey such as Index map, Key plan, Site plan, Contour Map, Cross-sections and long – section of the river /cherra/local stream, Catchment Area Map, any other drawing relevant to the task. All the reduced levels are to be correlated with the GTS Bench mark. Proposed approach road including traffic management facilities, retaining wall work, if any, are to be clearly indicated in the site plan.

3.2.4 Task –3 : Detailed Geo-Technical Investigation:

Under this programme, consultant has to carry out detailed Geo-Technical sub-soil investigation as per the provisions of the relevant IRC specification & Code of Practices for designing bridge foundations. All bore holes and other investigations including report are to be referred to the survey control point in plan and elevation.

Bore holes are to be conducted at each abutment and pier locations across the structure. However, where Geo – Technical reports and information available from adjacent crossings over the same waterways indicates that sub – surface variability is such that testing at only abutment and pier locations will be insufficient to adequately define the conditions for design purposes, the Consultant will decrease the bore hole spacing to the extent necessary.

Generally, the subsurface investigation should extend to a depth below the anticipated foundation level equal to about one and a half times the width of the foundation. However, where such investigations end in any unsuitable questionable foundation material, the exploration shall be extended to a sufficient depth into firm & stable soils or to rock.

In determining the approach to bore hole spacing / placement, depth of bore holes and other test and investigations, the Consultant shall take into account the relevant IRC road, bridges code of practices as well as the guidelines of MoRTH specifications. If rocky strata (at the proposed founding level of a bridge) are foreseen, an expert geologist should provide guidance about safe bearing capacity and other issues, for the safety of the bridge foundations.

3.2.5 Task –4 : Detailed Engineering ;

The task to be executed by the Consultants under this activity will include, but not limited to, those set out below:

In carrying out this component, it is expected that the Consultants will make extensive use of standard design techniques using STAAD Pro Software & will base the design work on relevant IRC code of practices (latest). Structural design will be carried out in accordance with IRC standards. Proposed bridge(s) shall be of RCC/PSC having light load carriageway width intermediate/double lane with/ without footpath designed for IRC class 70-R single lane or Class A double-lane loading whichever produces worst effect. Other loading (e.g. seismic, impact etc.) shall be considered as defined by the Indian Road Congress, New Delhi. Ductile detailing shall be carried out as per relevant code.

a) Hydraulic Particulars:

Based on the detailed survey, investigations & bathymetric information, Hydraulic Particulars are to be prepared to finalize the span arrangement, anticipated scour depths, minimum depth of foundations, general arrangement drawing, etc. of the bridges.

b) Bearing:

Appropriate type & design as per latest IRC Code.

c) Painting:

Relevant components of the bridges shall be painted as per codal provisions or as per direction of the Engineer-in-Charge.

d) Utility Services:

Adequate provisions for utility services like pillars for lights, installation of electric or telephone conduits, water or gas pipe line etc. should be kept.

e) Approaches to Bridge:

The approaches on either side of the bridge shall have a minimum straight length of 15 metres and shall be suitably increased where necessary to provide for the minimum sight distance.

f) Bridge aesthetic:

Visual forms of bridge should be selected with care to be in harmony with the general landscape with a view to maintain the aesthetics of the surroundings.

g) Lighting arrangements:

Night lighting provision should be kept.

h) Detailed Design:

Detailed designs to be done for all the structural components of the bridges. Sub structures & foundations will be designed & dimensioned on the basis of detailed site investigations and will reflect current national practices. In selecting foundation type the Consultants will also take into account the time required for the construction of alternatives and give preference to those which minimize construction time. While designing the components, the Consultant will take into account the availability of the construction materials locally. Beside the bridge proper, detailed design will also to be done for the approaches including traffic management facilities and retaining wall works etc. as and where necessary. Design work will be carried out in accordance with the relevant IRC/BIS Guidelines and MoRTH specifications.

i) Detailed Working Drawings:

Tasks to be carried out by the Consultants under this activity will include preparation of detailed working drawings for all components of bridge proper, approach roads, diversion road and river training works, if any, for actual execution at site. All the reinforcement arrangement and structural details should be clearly shown in the drawings. The drawings should be detailed enough for easy and smooth execution of the project.

The consultant also has to prepare specifications for all aspects of the works based on current and acceptable national standards and work methods for projects of this type. While preparing the specifications, the consultants will also take into account the availability of the construction materials locally.

j). **Detailed Cost Estimate:** The consultant has to prepare detailed cost estimate based on Schedule of Rates- 2011, Public Works Department (R & B), Tripura. The cost estimate will include the following:-

- Detailed bill of quantities and cost estimate should be prepared on the basis of structural design components, respective dimension so arrived at for all the elements of the bridge proper. Further, cost estimate for bridge approaches, central median and retaining wall work etc., if any, should be prepared under separate sub-head and should not be clubbed together with bridge proper.
- Cost estimate will be prepared based on Schedule of Rates- 2011, Public Works Department (Roads & Bridges), Tripura for the particular locations.
- The schedule of items should contain the relevant complete nomenclature of each item of works where specified, and where items are not covered by the Schedule of Rates- 2011, Public Works Department (Roads & Bridges), Tripura, the rate for the same shall be based on detailed analysis of rate.

3.2.6. Task-5 : Submission of detailed Project Report (DPR)

All documents / drawings or any other information/material created during the project will be the property of PWD(R&B) and all such information to be provided to PWD(R&B) in hard and soft copies (**editable**). The form of softcopy should be decided in consultation with PWD(R&B).

The Consultants shall submit the detailed Project Reports as part of their assignment for appraisal and approval. All the reports/documents, drawings etc. should be submitted in **6 (Six) copies** along with one extra copy of final drawings in good quality tracing sheets. A **soft copy (editable) of the entire documents including all drawings** (in Autocad-2004& editable) should be submitted. The Detailed Project Report may be submitted as follows:

Final report (Volume-1): Background including Report on necessity & feasibility for construction of the permanent bridge, preliminary survey, detailed survey & hydraulic data, geo-technical investigation, hydraulic particulars, proposal for the permanent bridge including proposed span arrangement, foundation depth etc.

Detailed design (Volume-2): Detailed Engineering Report including design calculations.

Detailed estimate, detailed Bill of Quantities (BoQ) & Specifications (Volume-3) : Cost estimate should be prepared based on finalized Bill of Quantities (BoQ) on the basis of structural design components, respective dimension so arrived at for all the elements of the bridge proper and immediate approaches as the case may be and Schedule of Rates – 2011, PWD (Roads & Bridges), Government of Tripura. Further, the schedule item/items should contain the relevant complete nomenclature of each item of works where specified and where items are not covered by the SOR- 2011, the rate for the same shall be based on detailed analysis of rate.

Cost estimate for immediate bridge approaches, temporary diversion roads & bridges and; river training works, if any, should be prepared under separate sub-head and should not be clubbed together with bridge proper.

Detailed working drawings (Volume-4): Detailed working drawings showing reinforcement arrangements for all structural components of the proposed permanent bridge, approach roads, central median and retaining wall work etc., if any.

SECTION-4

: GENERAL TERMS & CONDITIONS:

- 4.1.** Definition: In these general Conditions of Contract, the following terms shall have the meaning hereby assigned to them, except where the context otherwise requires –
- a. The “Contract” mean, the documents forming the tender and acceptance thereof, together with all the documents referred to therein including general and special conditions to contract. All these documents as applicable taken together shall be deemed to form one contract and shall be complementary to one another.
 - b. The “Work” means, the work described in the tender documents in individual work-orders as may be issued from time to time to the consultant by the Engineer-in-Charge within the power conferred upon him including all notified or additional items of works and obligations to be carried out as required for the performance of contract.
 - c. The “Consultant” means, the individual Firm or Company whether incorporated or not, undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or company or the successors of the firm or company and the permitted assigns of such individual or firm or company.
 - d. “The Engineer-in-Charge” means, the officer deputed by the Governor of Tripura/Secretary, PWD/Chief Engineer, Public Works (R & B) Department to supervise the work or part of the work.
 - e. “Approved” or “Directed” means, the approval or direction of the Governor of Tripura/Secretary, PWD/Chief Engineer, Public Works (R & B) Department or person deputed by him for the particular purposes.
 - f. A “Week” means, seven days without regard to the number of hours worked or not worked in any day in that week.
 - g. A “Day” means, the day of 24 (twenty four) hours irrespective of the number of hours worked or not worked in that day.
 - h. A “Working Day” means, any day other than that prescribed by the NEGOTIABLE INSTRUMENTS ACT as being a holiday, and consists of the number of hours of labour as commonly recognized by good employers in the trade in the District where the work is carried out or as laid down in the Public Works Department regulations.
- 4.2.** Heading to the Contract Conditions: The heading to these conditions shall not affect the interpretations thereof.
- 4.3.** Work to be carried out: The Consultant/agency shall, include all labour, materials, tools, plant, equipment and transport which may be required for the execution of the work. The Agency will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution of the work. No extra charges consequent on any misunderstanding in the respects or otherwise will be allowed.
- 4.4.** Deviations: The Consultant/agency shall not carry out any work not covered by schedule except in pursuance of the written instructions of the Secretary, PWD/Chief Engineer, Public Works (R & B) Department/Engineer- in-Charge. No such work shall be valid unless the same has been specifically confirmed and accepted by PWD in writing and incorporated in the contract.

- 4.5.** Octroi and other duties: All charges on account of Octroi terminal or Sales Tax and/or other duties on materials obtained for the work shall be borne by the Consultant.
- 4.6.** Plant and equipment: The Consultant/agency shall at his own expense, supply all tools plant and equipment (herein after referred to as T & P) required for the execution of the contract.
- 4.7.** Assignment of transfer of Contract: The Consultant/agency shall not without the prior written approval of the Chief Engineer, Public Works (R & B) Department, assign or transfer the contract or any part thereof, or any share, or interest thereon to any other person. No sum of money which may become payable under the contract shall be payable to any person, other than the consultant/agency unless the prior written approval of the Chief Engineer, Public Works (R & B) Department to the assignment or transfer of such money is given. Sub-Contract: The consultant shall not sub-let any portion of the contract without the prior written approval of the Chief Engineer, Public Works (R & B) Department.
- 4.8.** Orders under the Contract: All orders, notices etc. to be given under the contract shall be in writing, type- script or printed and if sent by registered post to the address given in the tender of the Contract, shall be deemed to have served on the date, when in the ordinary course they would have been delivered to him/her. The Consultant/Agency shall carry out without delay all orders given to him/her.
- 4.9.** Consultant's supervision: The Consultant shall either himself supervise the execution of the contract or shall appoint a competent agent acceptable to the Secretary, PWD/Chief Engineer, Public Works Department/Engineer-in-Charge, to act in his stead.

Orders given to the Consultant's agent shall be considered to have the same force as if they have been given to the Consultant himself.

The Consultant or his accredited agent shall attend when required without making any claim for doing so, either the office of the Chief Engineer/Superintending Engineer (P) /concerned Superintending Engineer, Public Works Department/Engineer-in-Charge, to receive instructions.

The Governor of Tripura/Secretary, PWD/Chief Engineer Public Works (R & B) Department shall have full powers and without assigning any reason, require the consultant to immediately cease to employ in connection with this contract, any agent, servant or employee where continued employment is, in his opinion undesirable. The Consultant shall not be allowed any compensation on this account.

- 4.10.** Labour : The Consultant shall remain liable for the payment of all wages or other moneys to his work-people or employees under the payment of Wages Act 1936, Employees liability Act 1938, Workmen's Compensation Act 1923 or any other enactment, relating thereto and rules framed, there under from time to time.
- 4.11.** Precautions against risk: The Consultant shall be responsible for providing at his own expense for all precautions to loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose.
- 4.12.** Damage & loss to private property & injury to workmen: The Consultant shall at his own expense reinstate and make good to the satisfaction of the Governor of Tripura/Secretary, PWD/Chief Engineer, Public Works (R & B) Department, and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of PWD servants or employee of PWD, the injury loss or damage arising out of or in any way connection with the execution or purported execution of the contract and further the consultant shall indemnify the PWD against all claims enforceable against PWD or which would be so enforceable against

PWD where PWD is a private person, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Workmen's Compensation Act or otherwise.

4.13. Laws governing the Contract: The contract shall be governed by the Indian Laws for time being in force.

4.14. Registers and records: The Consultant shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and identify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Consultant.

SECTION – 5

SPECIAL CONDITIONS OF CONTRACT

5.1. Notices:

Any notice, request or consent required or permitted to be given or made pursuant to this contract shall be in writing. Any such notice request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the party to whom the communication is addressed or when sent by the registered mail, telex, telegram or facsimile by such Party at the address mentioned below:

Client:

Addl. Chief Engineer, Planning Circle, PWD,
New Secretariat Complex, Tripura, Agartala,
799010. Tel No: 0381-241-6658,
Fax No: 0381-241-4073 / 241 - 6658
Email : seplanning_rb@yahoo.com

5.2. Authority of Member in Charge:

In case of Consultants consists of a joint venture of more than one entity, the Member authorized as the Member in charge will act on their behalf in exercising all the Consultant's rights and obligations towards the Client under this contract, including and without limiting the receiving of instruction and payments from the Client.

5.3. Payment to the Consultant:

In consideration of the Services performed by the Consultants under this contract, the Client shall make to the Consultant such payment in the manner given below:

- a) No advance payment shall be made to the Consultant for carrying out any activity specified in the TOR.
- b) Payment up to a maximum of 90% of the Contract amount of each task may be done to the Consultants after receipt of the final report of such activities and acceptance by the client.
- c) Balance 10% payment shall be made to the Consultants after completion of the assignment. The assignment shall be treated as complete after receipt of the final reports of all the activities as per the TOR and duly verified, accepted and approved by the Public Works(R&B) Department, Government of Tripura.
- d) The Consultants shall be in obligation to attend the observations offered by the approving authority (Client), if any, and to modify their report / design / drawings accordingly. The Consultants shall be required to provide necessary clarification and elucidation of Structural design/drawing furnished by them during execution phase. Any modification of structural design / drawing if required as per actual site condition shall have to be carried out. Nothing extra will be paid for such services.

5.4. Documents prepared by the Consultants shall be the property of the Client:

All Plans, drawings, specifications, designs, reports, other documents and software prepared by the Consultants for the Client under this contract shall become and remain the property of the Client, and the Consultants shall, not later than upon termination or expiration of this contract, deliver all such documents including the mother soft copies (editable) where details calculations and breakups are illustrated in CD/DVD

& hard copies to the Client, together with a detailed inventory thereof. The Client may use the documents as a whole or in part as and where deem necessary. The Consultants under this contract shall not have any right to raise any objection and claim in this regard. The payment will be released after satisfactory acceptance of these documents.

- 5.5.** The consultant shall have to deposit an amount of Rs.2 (Two) lakhs in the State Bank of India or any scheduled bank of India guaranteed by RBI in the shape of performance security in favour of the Executive Engineer authorized by the Chief Engineer, PWD(R&B), Tripura before issuance of formal work order. Performance security money may be accepted as bank guarantee of schedule banks and State Bank of India.
- 5.6** Works contract tax, labour welfare cess, service tax, vat etc in other taxes as applicable and admissible during the stipulated time for completion of project constancy would be paid by the consultant. If any new tax is introduced / imposed and / or increased for the construction during the period of execution and after last date for submission of financial offer that would be paid as extra.
- 5.7** On completion of the entire works the contractor will receive the final payment of all the moneys due or payable to him under or by virtue of the contract except performance security money deposit retained as security and a sum equal to 4% of the total value of the work done. The amount withheld from the final bill will be retained under deposits and paid to the contractor together with the performance security deposit retained as security after a period of 12(twelve) months as all defects shall have been made good according to the true intent and meaning thereof.
- 5.8** The successful consultant shall have to arrange necessary tests to ascertain design criteria during the period of assignment at his own risk and cost. No claim on this account shall be entertained by the Department.
- 5.9** Bid Documents may be dropped in the tender box by the person or be sent through registered post, speed post, courier post at the address specified in the LOI. If the office happens to be closed on the date of receipt / opening of the bids as specified the bids will be received/opened on the next working day at the same time and venue. No late receipt of Bid Documents after the stipulated time and date will be entertained. Any bid received after the closing time for submission shall be returned unopened.
- 5.10** The consultant shall have to remove all unused materials, debris etc if any, after conducting sub-soil exploration at individual bridge site at their own cost and risk as per instruction of the Engineer-in-Charge. Otherwise, @1(one) percent of the tendered amount will be deducted before making final payment by the Engineer-in-Charge.

SECTION – 6**Name of Work: - Road Project under the Rural Infrastructure Development and other Fund**

Sl. No.	District	Name of Division	Name of Work	Total Span (approx. in Mtr)
(1)	(2)	(3)	(4)	(5)
1.	South Tripura	Belonia	<u>SI No-01:</u> Construction of RCC bridge over local cherra on the road from Chittamara to Joyharipara (1032) (span 2X 25.00 m) at ch. 0.475 km.	50.00
2.	South Tripura	Belonia	<u>SI No-02:</u> Construction of RCC bridge over Belonia cherra on the road from Bankar Bridge to Ratamani Bridge via. Talukder para (span 25 .00 m) at ch. 0.95 km.	25.00
3.	South Tripura	Santirbazar	<u>SI No-03:</u> Improvement of road from Bagafa to Akama (L=1.00 km)/ Sh. Widening of road, regrading, soling, retaining wall, toe wall, metalling, carpeting and road side pucca drain etc Ch. 0.00 km to 10.50 km. / Replacement of Bailey Bridge by construction of RCC bridge over Barai cherra at ch. 10.50 km under Santirbazar Division.	30.00
4.	South Tripura	Sabroom	<u>SI No-04:</u> Replacement of existing Bailey Bridge by RCC bridge over Sagalnaiya Cherra on the road from Poangbari to Madhabnagar at Ch. 4.0 km near Samarganj Bazar.	25.00
5.	Gomati	Amarpur	<u>SI No-05:</u> Replacement of Bailey Bridge by RCC bridge over Bet cherra on the road Chellagang to Karbook at Chatraham para at ch. 0.50 km	50.00
6.	Gomati	Amarpur	<u>SI No-06:</u> Replacement of Bailey Bridge by RCC bridge over Haja cherra on the road from Harina to Ailmara at ch. 28.00 km.	25.00
7.	Gomati	Amarpur	<u>SI No-07:</u> Construction of Steel bridge After replacement of SPT bridge over river Gomati at Amarpur- Birganj road at ch. 650 m.	96.00
8.	Sepahijal a	Bishramganj	<u>SI No-08:</u> Construction of RCC bridge over Sankuma cherra at ch. 2.00 km. over Jampajjala Bazar to Sambaria Bazar via. Natunbazar.	36.00
9.	Unakoti	Kailashahar	<u>SI No-09:</u> Construction of RCC bridge over river Manu at Chantail Ferighat on Paiturbazar- Sunamura road (Ch. 2.35 km)	160.00
10.	Unakoti	Kumarghat	SI No-10: Replacement of SPT bridge no. 1 over Laljuri Cherra ch. 0.100 Km. by RCC bridge on MDF Laljuri road.	22.00
11.	North Tripura	Kanchanpur	<u>SI No-11:</u> Replacement of Bailey Bridge by RCC bridge on the road from Dasda bazaar to Adibasighat at Ch. 1.2 km over Deo river.	90.00

APPENDIX A

Details of Consulting Assignments Executed during last Three Years

Sl.No	Year of Consultancy	Client and his Address with Contact No.	Name of consultancy work i.e. RCC Bridge with length & Span	Total Project Cost	Consultancy Fee received	Remarks

Please attach additional sheets, if necessary.

Date:

Place:

Signature of the authorized Signatory

Signature of the Bidder with Date & full Address

<http://tripurainfo.com/Tenders.aspx>

APPENDIX - B

PROPOSAL SUBMISSION FORM.

From:
(Name of Firm)

To
The Addl. Chief Engineer (Planning),
Planning Circle, PWD(R&B),
New Secretariat Complex
Tripura, Agartala - 799010.

Subject: Consultancy Services for preliminary and detailed engineering including preparation of detailed project report for construction of **11(Eleven) Nos.** of permanent bridges at different locations on the State road network.

We, the undersigned, offer to provide the consulting services for the above in accordance with your Request for Proposal dated _____ . We are hereby submitting our Proposal, which includes eligibility criteria of our Firm.

We understand you are not bound to accept any proposal you receive.

We remain,

Yours sincerely.

Authorized Signatory
Name and Title of Signatory:
Name of Firm:
Address:

APPENDIX C

FINANCIAL PROPOSAL SUBMISSION FORM

From:
(Name of Firm)

To
The Addl. Chief Engineer (Planning),
Planning Circle, PWD(R&B),
New Secretariat Complex
Agartala, 799010. Fax No: 0381-2416658,

Subject: Consultancy Services for preliminary and detailed engineering including preparation of detailed project report for construction of **11(Eleven)** Nos. of permanent bridges at different locations on the State road network.

We, the undersigned, offer to provide the consulting services for the above in accordance with your Request for Proposal dated _____ and our proposal (Financial Proposal) are as follows –

“ We offer to execute the work(s) described above and modifications/remedy any therein with conditions of the contract, specifications, TOR etc for **Unit Rate per Bridge @**

Rs.....(in figures)

Rupees _____(in words)

and **total amount for 11(Eleven)** Nos. of permanent bridges -

Rs..... (in figures)

Rupees _____(in words)

We understand that for evaluation of the bids the total consultancy amount as quoted shall be considered and you have the option not to assign the consultancy job for the proof checking stage. Our financial proposal shall be binding upon us subject to the modifications resulting up to the expiration of the validity period of the proposal, i.e., _____ [Date]. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely Prevention of Corruption Act,1988.

We understand you are not bound to accept any proposal you receive.

We remain,

Yours sincerely,

Authorized Signatory:
Name and title of Signatory:
Name of Firm:

CHECK LIST

Sl No.	Details of particulars	Remarks.
1).	Whether the Consultant/Applicant or any of its constituents has been barred by any Central and/or State Govt. in India?	Yes / No
2)	Whether the Consultant/Applicant failed to perform any agreement or been expelled from any project or agreement or have any agreement terminated for breach by the Applicant during the last three years?	Yes / No
3)	Whether the Consultant/Applicant have completed consultancy of at least 15 (fifteen) nos RCC Bridges having length not less than 30 mtr. for each during last three financial years?	Yes / No
4)	Whether the Consultant/Applicant have the minimum total turnover of Rs.10.0 Crore from consultancy services during last five years preceding the years ending March 2016?	Yes / No
5)	Whether the Consultant/Applicant have the STAAD Pro Software for structural design?	Yes / No
6)	Whether the Consultant/Applicant submitted the details as per APPENDIX-A?	Yes / No
7)	Whether the Consultant/Applicant enclosed the requisite amount of Earnest Money in appropriate form in sealed envelope?	Yes / No
8)	Whether the Financial Proposal has been filled as per proper format and sealed in a separate envelope?	Yes / No

Authorized Signatory
Name and Title of Signatory:
Name of Firm:
Address: