

Tender Document for Works

(Two-Envelope Tendering Process Without Prequalification)

Procurement of:

Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project.

Tender No: HORC/HRIDC/C-6/2024

Contract title: Composite Works Contract (Earthwork, Bridges, Station Buildings, Retaining Walls, other miscellaneous Works and General Electrical Services) on EPC basis (Package C-6)

Project: Haryana Orbital Rail Corridor Project

Loan No.: Under Process

Project No.: 000741

Employer: Haryana Orbital Rail Corporation Limited

Country: INDIA

Issued on: 12.03.2024

Summary

Specific Procurement Notice (SPN)

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PART 1 – Tendering Procedures

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Section I - Instructions to Tenderers (ITT)

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Section I - Instructions to Tenderers (ITT)

A. General

- 1. Scope of Tender**
- 1.1 In connection with the Specific Procurement Notice (SPN) indicated in the **Tender Data Sheet (TDS)**, the Employer, as specified in the **TDS**, issues this Tender Document for the provision of Works on EPC basis as specified in Section VII, Employer’s Requirements. The name, identification, and number of lots (contracts) of this tender are specified in the **TDS**.
- 1.2 Throughout this Tender Document:
- (a) the term “in writing” means communicated in written form (e.g., by mail, e-mail, fax, including, if specified in the **TDS**, distributed or received through electronic-procurement system used by the Employer) with proof of receipt;
 - (b) if the context so requires, “singular” means “plural” and vice versa;
 - (c) “Day” means calendar day, unless otherwise specified as a “Business Day.” A Business Day is any day that is a working day of the Recipient. It excludes the Recipient’s official public holidays;
 - (d) “ESHS” means environmental, social, health and safety; and
 - (e) the word “tender” is synonymous with “bid” and “tenderer” with “bidder”, and the words “tender documents” with “bidding documents”.
- 2. Source of Funds**
- 2.1 The Recipient specified in the **TDS** has received or has applied for financing (hereinafter called “funds”) from the Asian Infrastructure Investment Bank (hereinafter called (“AIIB” or “the Bank”) in an amount specified in the **TDS**, toward the project named in the **TDS**. The Recipient intends to apply a portion of the funds to eligible payments under the contract(s) for which this Tender Document is issued.
- 2.2 Payment by the Bank will be made only at the request of the Recipient and upon approval by the Bank, and will be subject, in all respects, to the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, equipment, plant, or materials, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of

the United Nations. No party other than the Recipient shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Prohibited Practices

- 3.1 The Bank requires compliance with the Bank’s Policy on Prohibited Practices as set forth in Section VI.
- 3.2 In further pursuance of this policy, Tenderers shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Bank to inspect all accounts, records and other documents relating to any prequalification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

4. Eligible Tenderers

- 4.1 A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 4.6 or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Tendering process and, in the event the JV is awarded the Contract, during contract execution. Unless specified in the **TDS**, there is no limit on the number of members in a JV.
- 4.2 A Tenderer shall not have a conflict of interest. Any Tenderer found to have a conflict of interest shall be disqualified. A Tenderer may be considered to have a conflict of interest for the purpose of this Tendering process, if the Tenderer:
 - a) directly or indirectly controls, is controlled by or is under common control with another Tenderer; or
 - b) receives or has received any direct or indirect subsidy from another Tenderer; or
 - c) has the same legal representative as another Tenderer; or
 - d) has a relationship with another Tenderer, directly or through common third parties, that puts it in a position to influence the Tender of another Tenderer, or influence the decisions of the Employer regarding this Tendering process; or
 - e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Works that are the subject of the Tender; or
 - f) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Recipient as Engineer for the Contract implementation; or

- g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the TDS ITT 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - h) has a close business or family relationship with a professional staff of the Recipient (or of the project implementing agency, or of any other beneficiary of the Bank's financing, or of any other party representing or acting on behalf of the Recipient) who: (i) are directly or indirectly involved in the preparation of the Tender Document or specification of the Contract, and/or the Tender evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Tendering process and execution of the Contract; or
 - i) is an affiliate of the Recipient, or of a procurement agent engaged by the Recipient, unless the Recipient demonstrates to the satisfaction of the Bank that there is no significant degree of common ownership, influence or control between the Recipient on the one hand, and the Recipient's agent and the affiliate on the other.
- 4.3 A firm that is a Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. However, this does not limit: (a) the inclusion of the same Subcontractor in more than one Tender for the same contract; or (b) the ability of one Tenderer to be a Subcontractor in another Tender for the same contract.
- 4.4 A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT 4.8. A Tenderer shall be deemed to have the nationality of a country if the Tenderer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of the Contract including related Services.
- 4.5 A Tenderer that has been declared, and remains, as at the relevant date, ineligible pursuant to the Bank's Policy on Prohibited Practices as described in Section VI, shall be ineligible to be prequalified for,

tender for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the **TDS**.

- 4.6 Tenderers that are state-owned enterprises or institutions in the Employer's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are carrying-out or are established for a business purpose, and are operating on a commercial basis; (ii) are financially and managerially autonomous; (iii) are not controlled by the government on day-to-day management; and (iv) are not under the supervision of the Employer or its procuring agency.
- 4.7 A Tenderer shall not be under suspension from Tendering by the Employer as the result of the operation of a Tender-Securing or Proposal-Securing Declaration.
- 4.8 Firms and individuals may be ineligible if so indicated in Section V and (a) as a matter of law or official regulations, the Recipient's country prohibits commercial relations with the firm or individual's country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Recipient's country prohibits any import of goods or contracting of works or services from the firm or individual's country, or any payments to any country, person, or entity in that country. When the Works are implemented across jurisdictional boundaries (and more than one country is a Recipient, and is involved in the procurement), then exclusion of a firm or individual on the basis of ITT 4.8 (a) above by any country may be applied to that procurement across other countries involved, if the Bank and the Recipients involved in the procurement agree.
- 4.9 A Tenderer shall provide such documentary evidence of eligibility satisfactory to the Employer, as the Employer shall reasonably request.
- 4.10 A firm that is under a sanction of debarment by the Recipient from being awarded a contract is eligible to participate in this procurement, unless the Bank, at the Recipient's request, is satisfied that the debarment; (a) relates to fraud or corruption or other prohibited practices, and (b) followed a judicial or administrative proceeding that afforded the firm adequate due process.

5. Eligible Materials,

- 5.1 The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any

Equipment, and Services

country subject to the restrictions specified in Section V, Eligible Countries, and all expenditures under the Contract will not contravene such restrictions. At the Employer's request, Tenderers may be required to provide evidence of the origin of materials, equipment and services.

B. Contents of Tender Document

6. Sections of Tender Document

6.1 The Tender Document consists of Parts 1, 2 and 3, includes all the sections specified below, and should be read in conjunction with any Addenda issued in accordance with ITT 8.

PART 1 Tendering Procedures

- Section I - Instructions to Tenderers (ITT)
- Section II - Tender Data Sheet (TDS)
- Section III - Evaluation and Qualification Criteria
- Section IV - Tender Forms
- Section V - Eligible Countries
- Section VI - Prohibited Practices

PART 2 Employer's Requirements

Section VII - Employer's Requirements

PART 3 Conditions of Contract and Contract Forms

- Section VIII - General Conditions of Contract (GCC)
- Section IX - Particular Conditions of Contract (PCC)
- Section X - Contract Forms

6.2 The Specific Procurement Notice issued by the Employer is not part of the Tender Document.

6.3 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the Tender Document, responses to requests for clarification, the minutes of the pre-Tender meeting (if any), or Addenda to the Tender Document in accordance with ITT 8. In case of any contradiction, documents obtained directly from the Employer shall prevail.

6.4 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tender Document.

7. Clarification of Tender

7.1 A Tenderer requiring any clarification of the Tender Document shall contact the Employer in writing at the Employer's address specified

Document, Site Visit, Pre-Tender Meeting

in the **TDS** or raise its enquiries during the pre-Tender meeting if provided for in accordance with ITT 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received no later than two days prior to Pre-Tender meeting. The Employer shall forward copies of its response to all Tenderers who have acquired the Tender Document in accordance with ITT 6.3, including a description of the inquiry but without identifying its source. If so, specified in the **TDS**, the Employer shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification result in changes to the essential elements of the Tender Document, the Employer shall amend the Tender Document following the procedure under ITT 8 and ITT 22.2.

- 7.2 The Tenderer is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.
- 7.3 The Tenderer and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Tenderer, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 7.4 If so specified in the **TDS**, the Tenderer's designated representative is invited to attend a pre-Tender meeting and/or a Site of Works visit. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.5 The Tenderer is requested to submit any questions in writing, to reach the Employer not later than one week before the meeting.
- 7.6 Minutes of the pre-Tender meeting, if applicable, including the text of the questions asked by Tenderers, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Document in accordance with ITT 6.3. If so, specified in the **TDS**, the Employer shall also promptly publish the Minutes of the pre-Tender meeting at the web page identified in the **TDS**. Any modification to the Tender Document that may become necessary as a result of the pre-Tender meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to ITT 8 and not through the minutes of the pre-Tender meeting. Nonattendance at the pre-Tender meeting will not be a cause for disqualification of a Tenderer.

- 8. Amendment of Tender Document**
- 8.1 At any time prior to the deadline for submission of Tenders, the Employer may amend the Tender Document by issuing addenda.
- 8.2 Any addendum issued shall be part of the Tender Document and shall be communicated in writing to all who have obtained the Tender Document from the Employer in accordance with ITT 6.3. The Employer shall also promptly publish the addendum on the Employer’s web page in accordance with ITT 7.1.
- 8.3 To give Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Employer may, at its discretion, extend the deadline for the submission of Tenders, pursuant to ITT 22.2.

C. Preparation of Tenders

- 9. Cost of Tendering**
- 9.1 The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Employer shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.
- 10. Language of Tender**
- 10.1 The Tender, as well as all correspondence and documents relating to the Tender exchanged by the Tenderer and the Employer, shall be written in the language specified in the **TDS**. Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the **TDS**, in which case, for purposes of interpretation of the Tender, such translation shall govern.
- 11. Documents Comprising the Tender**
- 11.1 The Tender shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously in two separate sealed envelopes (two-envelope tendering process). One envelope shall contain only information relating to the Technical Part and the other, only information relating to the Financial Part. These two envelopes shall be enclosed in a separate sealed outer envelope marked “ORIGINAL TENDER”.
- 11.2 The Technical Part shall contain the following:
- (a) Letter of Tender – Technical Part: prepared in accordance with ITT 12;
 - (b) Tender Security or Tender-Securing Declaration: in accordance with ITT 19.1;
 - (c) Alternative Tender – Technical Part: if permissible, in accordance with ITT 13;

- (d) Authorization: written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordance with ITT 20.3;
- (e) Eligibility: documentary evidence in accordance with ITT 17.1 establishing the Tenderer's eligibility to tender;
- (f) Qualifications: documentary evidence in accordance with ITT 17.2 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
- (g) Conformity: a technical proposal in accordance with ITT 16;
- (h) Any other document required in the **TDS**.

11.3 The Financial Part shall contain the following:

- (a) Letter of Tender – Financial Part: prepared in accordance with ITT 12 and ITT 14;
- (b) Price Schedule: completed in accordance with ITT 12 and ITT 14;
- (c) Alternative Tender - Financial Part: if permissible in accordance with ITT 13; and
- (d) Any other document required in the **TDS**.

11.4 The Technical Part shall not include any information related to the Tender price. Where material financial information related to the Tender price is contained in the Technical Part, the Tender shall be declared non-responsive.

11.5 In addition to the requirements under ITT 11.2, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed Agreement.

11.6 The Tenderer shall furnish in the Letter of Tender – Financial Part information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Tender.

12. Letter of Tender and Schedules

12.1 The Letter of Tender – Technical Part, the Letter of Tender – Financial Part, Schedules and all documents listed under ITT 11 including the Price Schedule, shall be prepared using the relevant forms furnished in Section IV, Tender Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested.

13. Alternative Tenders

13.1 Unless otherwise specified in the **TDS**, alternative Tenders shall not be considered.

- 13.2 When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.
- 13.3 Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Document must first price the Employer's design as described in the Tender Document and shall further provide all information necessary for a complete evaluation of the alternative by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Most Advantageous Tender conforming to the basic technical requirements shall be considered by the Employer.
- 13.4 When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works. Such parts will be identified in the **TDS** and described in Section VII, Employer's Requirements. The method for their evaluation will be stipulated in Section III, Evaluation and Qualification Criteria.

14. Tender Prices and Discounts

- 14.1 The prices and discounts (including any price reduction) quoted by the Tenderer in the Letter of Tender – Financial Part and in the Price Schedule shall conform to the requirements specified below.
- 14.2 Unless otherwise specified in the **TDS**, Tenderers shall quote for the entire Works on a “single responsibility” basis such that the total lump sum Tender price, subject to any adjustments, in accordance with the Contract, covers all the Contractor's obligations mentioned in or to be reasonably inferred from the Tendering document for complete execution of the Works on EPC basis. This includes all requirements under the Contractor's responsibilities for design, construction, procurement, erection, installation, subcontracting (if any), testing, pre-commissioning and commissioning (as applicable) of the Works and, where so required by the Tendering document, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the Tendering document, all in accordance with the requirements of the General Conditions.

Tenderers shall give a breakdown of the prices in the manner and detail called for in the Schedule of Rates and prices (if any) included in Section IV, Tender Forms. These will not in any way limit the Tenderers' single point total responsibility for the complete Scope of Work and for all contractual responsibilities/ obligations as stated in the Tendering Document.

- 14.3 The price to be quoted in the Letter of Tender – Financial Part, in accordance with ITT 12.1, shall be the total price of the Tender, excluding any discounts offered.
- 14.4 The Tenderer shall quote any discounts and the methodology for their application in the Letter of Tender – Financial Part, in accordance with ITT 12.1.
- 14.5 Unless otherwise specified in the **TDS** and the Conditions of Contract, the rates and prices quoted by the Tenderer are subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Table of Adjustment Data in Section IV, Tender Forms, and the Employer may require the Tenderer to justify its proposed indices and weightings.
- 14.6 If so specified in ITT 1.1, Tenders are being invited for individual lots (contracts) or for any combination of lots (packages). Tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 14.4, provided the Tenders for all lots (contracts) are opened at the same time. If, however, rated criteria are used in accordance with ITT 30.2, discounts on condition of award of more than one Contract shall not be used for Tender evaluation purpose.
- 14.7 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer.

**15. Currencies of
Tender and
Payment**

- 15.1 The currency (ies) of the Tender and the currency (ies) of payments shall be the same and shall be as specified in the **TDS**.
- 15.2 Tenderers may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Table of Adjustment Data in the Appendix to Tender in Section IV, Tender Forms, are reasonable, in which case a detailed breakdown of the foreign currency requirements shall be provided by Tenderers.

**16. Documents
Comprising the
Technical
Proposal**

- 16.1 The Tenderer shall furnish a technical proposal in the Technical Part of the Tender including a statement of work methods, equipment, personnel, schedules and any other information as stipulated in Section IV, Tender Forms, in sufficient detail to demonstrate the

adequacy of the Tenderer's proposal to meet the Employer's requirements and the completion time.

**17. Documents
Establishing the
Eligibility and
Qualifications of
the Tenderer**

17.1 To establish Tenderer's eligibility in accordance with ITT 4, Tenderers shall complete the Letter of Tender – Technical Part, included in Section IV, Tender Forms.

17.2 In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract, the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.

17.3 If provisions for development of domestic industry (such as a margin of domestic preference) apply as specified in accordance with ITT 38.1, domestic Tenderers, individually or in joint ventures, applying for eligibility for domestic preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 38.1.

**18. Period of
Validity of
Tenders**

18.1. Tenders shall remain valid for the Tender Validity period specified in the **TDS**. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Employer in accordance with ITT 22). A Tender valid for a shorter period shall be rejected by the Employer as nonresponsive.

18.2. In exceptional circumstances, prior to the expiration of the Tender validity period, the Employer may request Tenderers to extend the period of validity of their Tenders. The request and the responses shall be made in writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for a corresponding period. A Tenderer may refuse the request without forfeiting its Tender security. A Tenderer granting the request shall not be required or permitted to modify its Tender, except as provided in ITT 18.3.

18.3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Tender validity period, the Contract price shall be determined as follows:

- (a) in the case of fixed price contracts, the Contract price shall be the Tender price adjusted by the factor specified in the **TDS**;
- (b) in the case of adjustable price contracts, no adjustment shall be made; or
- (c) in any case, Tender evaluation shall be based on the Tender price without taking into consideration the applicable correction from those indicated above.

19. Tender Security

- 19.1 The Tenderer shall furnish as part of the Technical Part of its Tender, either a Tender Security or a Tender-Securing Declaration, as specified in the **TDS**, in original form and, in the case of a Tender Security, in the amount and currency, or in the case of a Tender-Securing Declaration, for the period of ineligibility, as specified in the **TDS**.
- 19.2 A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.
- 19.3 If a Tender Security is specified pursuant to ITT 19.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer's option:
- (a) an unconditional guarantee issued by a bank;
 - (b) an irrevocable letter of credit;
 - (c) a cashier's or certified check; or
 - (d) another security specified in the **TDS**,
- from a reputable source from an eligible country. In the case of a bank guarantee, the Tender Security shall be submitted either using the Tender Security Form included in Section IV, Tender Forms, or in another substantially similar format approved by the Employer prior to Tender submission. The Tender Security shall be valid for twenty-eight (28) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 18.2.
- 19.4 If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Employer as non-responsive.
- 19.5 If a Tender Security is specified pursuant to ITT 19.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the Performance Security pursuant to ITT 50.
- 19.6 The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security.
- 19.7 The Tender Security may be forfeited, or the Tender-Securing Declaration executed:
- (a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Letter of Tender, or any extension thereto provided by the Tenderer; or
 - (b) if the successful Tenderer fails to:

- (i) sign the Contract in accordance with ITT 49; or
- (ii) furnish a Performance Security in accordance with ITT 50.

19.8 The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of Tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT 4.1 and ITT 11.5.

20. Format and Signing of Tender

- 20.1 The Tenderer shall prepare one original set of the Technical Part of the Tender and one original set of the Financial Part of the Tender as described in ITT 11 and ITT 21, and clearly mark them “ORIGINAL”. Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked “ALTERNATIVE.” In addition, the Tenderer shall submit copies of the Tender, in the number specified in the **TDS** and clearly mark them “COPY”. In the event of any discrepancy between the original and the copies, the original shall prevail.
- 20.2 Tenderers shall mark as “CONFIDENTIAL” all information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 20.3 The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the **TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.
- 20.4 In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 20.5 Any amendments such as inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. Submission of Tenders

21. Sealing and Marking of Tenders

- 21.1 Tenderers may submit their Tenders by mail or by hand. If so specified in the **TDS**, Tenderers shall have the option of submitting their

Tenders electronically. Procedures for submission, sealing, and marking are as follows:

- (a) Tenderers submitting Tenders by mail or by hand shall enclose the original Technical Part of the Tender, the original Financial Part of the Tender, and the respective copies of the Tender, including Alternative Tenders if permitted in accordance with ITT 13, in separate sealed envelopes. The envelopes shall be duly marked as "ORIGINAL TECHNICAL PART", "ORIGINAL-FINANCIAL PART", "COPY-TECHNICAL PART", "COPY-FINANCIAL PART", "ALTERNATIVE-ORIGINAL-TECHNICAL PART", "ALTERNATIVE-ORIGINAL-FINANCIAL PART", "ALTERNATIVE-COPY-TECHNICAL PART", and "ALTERNATIVE-COPY-FINANCIAL PART". These envelopes shall then be enclosed in one single package. The rest of the procedure shall be in accordance with ITT 21.2 through ITT 21.5.
- (b) Tenderers submitting Tenders electronically shall follow the electronic tender submission procedures specified in the **TDS**.

21.2 The inner and outer envelopes shall:

- (a) bear the name and address of the Tenderer;
- (b) be addressed to the Employer in accordance with ITT 22.1; and
- (c) bear the specific identification of this Tendering process specified in accordance with TDS ITT 1.1.

21.3 The outer envelopes and the inner envelopes containing the Technical Part of Tender shall bear a warning not to open before the time and date for the opening of Technical Part of Tender, in accordance with ITT 25.1.

21.4 The inner envelopes containing the Financial Part of Tender shall bear a warning not to open until advised by the Employer in accordance with ITT 34.

21.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the Tender.

22. Deadline for Submission of Tenders

22.1 Tenders must be received by the Employer at the address and no later than the date and time specified in the **TDS**.

22.2 The Employer may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Document in accordance with ITT 8, in which case all rights and obligations of the Employer and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

- 23. Late Tenders** 23.1 The Employer shall not consider any Tender that arrives after the deadline for submission of Tenders, in accordance with ITT 22. Any Tender received by the Employer after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.
- 24. Withdrawal, Substitution, and Modification of Tenders** 24.1 A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITT 20.3 (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:
- (a) prepared and submitted in accordance with ITT 20 and ITT 21 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL”, “SUBSTITUTION”, “MODIFICATION”; and
 - (b) received by the Employer prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.
- 24.2 Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.
- 24.3 No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Letter of Tender or any extension thereof.

E. Public Opening of Technical Parts of Tenders

- 25. Technical Part Opening** 25.1 Except in the cases specified in ITT 23 and ITT 24.2, the Employer shall publicly open and read out in accordance with this ITT all Tenders received by the deadline, at the date, time and place specified in the **TDS**, in the presence of Tenderers’ designated representatives and anyone who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 21.1, shall be as specified in the **TDS**.
- 25.2 First, envelopes marked “Withdrawal” shall be opened and read out and the envelope with the corresponding Tender shall not be opened, but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.

- 25.3 Next, envelopes marked “Substitution” shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.
- 25.4 Next, envelopes marked “Modification” shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Tender opening.
- 25.5 Next, all remaining envelopes marked “TECHNICAL PART” shall be opened one at a time. All envelopes marked “FINANCIAL PART” shall remain sealed, and kept by the Employer in safe custody until they are opened, at a later public opening, following the evaluation of the Technical Part of the Tenders. On opening the envelopes marked “TECHNICAL PART” the Employer shall read out: the name of the Tender, the presence or the absence of a Tender Security, or Tender-Securing Declaration, if required, and whether there is a modification; and Alternative Tender - Technical Part; and any other details as the Employer may consider appropriate.
- 25.6 Only Technical Parts of Tenders and Technical Parts of Alternative Tenders that are opened and read out at Tender opening shall be considered further for evaluation. The Letter of Tender – Technical Part and the separate sealed envelopes marked “FINANCIAL PART” are to be initialed by representatives of the Employer attending Tender opening in the manner specified in the **TDS**.
- 25.7 At the tender opening the Employer shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).
- 25.8 The Employer shall prepare a record of the Technical Part of Tender opening that shall include, as a minimum:
- (a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
 - (b) the receipt of envelopes marked “FINANCIAL PART”;
 - (c) the presence or absence of a Tender Security or Tender-Securing Declaration, if one was required any alternative Tenders; and
 - (d) if applicable, any Alternative Tender – Technical Part.
- 25.9 The Tenderers’ representatives who are present shall be requested to sign the record. The omission of a Tenderer’s signature on the record shall not invalidate the contents and effect of the record. A copy of

the record shall be distributed to all Tenderers who submitted Tenders in time and posted online when electronic Tendering is permitted.

F. Evaluation of Tenders – General Provisions

- 26. Confidentiality**
- 26.1 Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderers or any other persons not officially concerned with the Tendering process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 45.
- 26.2 Any attempt by a Tenderer to influence the Employer in the evaluation of the Tenders or Contract award decisions may result in the rejection of its Tender.
- 26.3 Notwithstanding ITT 26.2, from the time of Tender opening to the time of Contract award, if a Tenderer wishes to contact the Employer on any matter related to the Tendering process, it shall do so in writing.
- 27. Clarification of Tenders**
- 27.1 To assist in the examination, evaluation, and comparison of the Tenders, and qualification of the Tenderers, the Employer may, at its discretion, ask any Tenderer for a clarification of its Tender, allowing a reasonable time for response. Any clarification submitted by a Tenderer that is not in response to a request by the Employer shall not be considered. The Employer’s request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders, in accordance with ITT 36.
- 27.2 If a Tenderer does not provide clarifications of its Tender by the date and time set in the Employer’s request for clarification, its Tender may be rejected.
- 28. Deviations, Reservations, and Omissions**
- 28.1 During the evaluation of Tenders, the following definitions apply:
- (a) “Deviation” is a departure from the requirements specified in the Tender Document;
 - (b) “Reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document; and
 - (c) “Omission” is the failure to submit part or all of the information or documentation required in the Tender Document.

**29. Nonmaterial
Nonconformities**

- 29.1 Provided that a Tender is substantially responsive, the Employer may waive any nonconformities in the Tender.
- 29.2 Provided that a Tender is substantially responsive, the Employer may request that the Tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Tender related to documentation requirements. Requesting information or documentation on such nonconformities or omissions shall not be related to any aspect of the price of the Tender. Failure of the Tenderer to comply with the request may result in the rejection of its Tender.
- 29.3 Provided that a Tender is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified in the **TDS**.

G. Evaluation of Technical Parts of Tenders

**30. Evaluation of
Technical Parts**

- 30.1 In evaluating the Technical Parts of each Tender, the Employer shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted.
- 30.2 If specified in the **TDS**, the Employer's evaluation will be carried out by applying rated criteria that take into account technical factors, in addition to cost factors. An Evaluated Tender Score will be calculated for each responsive Tender using the formula specified in Section III, Evaluation and Qualification Criteria. The scores to be given to technical factors and sub-factors are specified in the **TDS**. The weights to be given to the cost and the total technical score are specified in the **TDS**.

**31. Determination of
Responsiveness**

- 31.1 The Employer's determination of a Tender's responsiveness is to be based on the contents of the Tender itself, as defined in ITT 11.
- 31.2 A substantially responsive Tender is one that meets the requirements of the Tender Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) if accepted, would:

- (i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Tender Document, the Employer’s rights or the Tenderer’s obligations under the proposed Contract; or
- (b) if rectified, would unfairly affect the competitive position of other Tenderers presenting substantially responsive Tenders.

31.3 The Employer shall examine the technical aspects of the Tender submitted in accordance with ITT 16, in particular, to confirm that all requirements of Section VII, Employer’s Requirements have been met without any material deviation, reservation or omission.

31.4 If a Tender is not substantially responsive to the requirements of the Tender Document, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32. Qualification of the Tenderers

32.1 The Employer shall determine to its satisfaction whether the eligible Tenderers that have submitted substantially responsive Tender - Technical Parts meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

32.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer’s qualifications submitted by the Tenderer, pursuant to ITT 17. The determination shall not take into consideration the qualifications of other firms such as the Tenderer’s subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Subcontractors if permitted in ITT 33.3), or any other firm(s) different from the Tenderer.

32.3 If a Tenderer does not meet the qualifying criteria specified in Section III, Evaluation and Qualification Criteria, its Tender shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32.4 Only Tenders that are both substantially responsive to the Tender Document, and meet all Qualification Criteria shall have their envelopes marked “FINANCIAL PART” opened at the second public opening.

33. Subcontractors

33.1 Unless otherwise stated in the **TDS**, the Employer does not intend to execute any specific elements of the Works by subcontractors selected in advance by the Employer.

33.2 Tenderers may propose subcontracting up to the percentage of total value of contracts or the volume of works as specified in the **TDS**.

Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.

- 33.3 The subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their specialized parts of the Works were previously designated by the Employer in the **TDS** as can be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

H. Public Opening of Financial Parts of Tenders

34. Public Opening of Financial Parts

- 34.1 Following the completion of the evaluation of the Technical Parts of the Tenders, and the Bank has issued its no objection (if applicable), the Employer shall notify in writing those Tenderers whose Tenders were considered non-responsive to the Tender Document or failed to meet the Qualification Criteria, advising them of the following information:

- (a) the grounds on which their Technical Part of Tender failed to meet the requirements of the Tender Document;
- (b) their envelopes marked "FINANCIAL PART" will be returned to them unopened after the completion of the selection process and the signing of the Contract; and
- (c) notify them of the date, time and location of the public opening of the envelopes marked "FINANCIAL PART".

- 34.2 The Employer shall, simultaneously, notify in writing those Tenderers whose Tenders - Technical Parts have been evaluated as substantially responsive to the Tender Document and met all Qualifying Criteria, advising them of the following information:

- (a) their Tender has been evaluated as substantially responsive to the Tender Document and met the Qualification Criteria;
- (b) When rated criteria are used, the evaluated technical scores;
- (c) their envelope marked "FINANCIAL PART" will be opened at the public opening of the Financial Parts; and
- (d) notify them of the date, time and location of the second public opening of the envelopes marked "FINANCIAL PART" as specified in the **TDS**.

- 34.3 The opening date should allow Tenderers sufficient time to make arrangements for attending the opening. The Financial Part of the

Tender shall be opened publicly in the presence of Tenderers' designated representatives and anyone who chooses to attend.

- 34.4 At this public opening the Financial Parts will be opened by the Employer in the presence of Tenderers, or their designated representatives and anyone else who chooses to attend. Tenderers who met the Qualification Criteria and whose Tenders were evaluated as substantially responsive will have their envelopes marked "FINANCIAL PART" opened at the second public opening. Each of these envelopes marked "FINANCIAL PART" shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Employer. The Employer shall read out the names of each Tenderer, and the total Tender prices, per lot (contract) if applicable, including any discounts and Alternative Tender - Financial Part, and any other details as the Employer may consider appropriate.
- 34.5 Only envelopes of Financial Part of Tenders, Financial Parts of Alternative Tenders and discounts that are opened and read out at tender opening shall be considered further for evaluation. The Letter of Tender – Financial Part and the Priced Bill of Quantities are to be initialed by representatives of the Employer attending the tender opening in the manner specified in the **TDS**.
- 34.6 The Employer shall neither discuss the merits of any Tender nor reject any envelopes marked "FINANCIAL PART".
- 34.7 The Employer shall prepare a record of the Financial Part of the Tender opening that shall include, as a minimum:
- (a) the name of the Tenderer whose Financial Part was opened;
 - (b) the Tender price, per lot (contract) if applicable, including any discounts; and
 - (c) if applicable, any Alternative Tender – Financial Part.
- 34.8 The Tenderers whose envelopes marked "FINANCIAL PART" have been opened or their representatives who are present shall be requested to sign the record. The omission of a Tenderer's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Tenderers.

I. Evaluation of Financial Parts of Tenders

35. Evaluation of Financial Parts

- 35.1 To evaluate the Financial Part, the Employer shall consider the following:

- (a) the Tender price, excluding Provisional Sums and the provision, if any, for contingencies in the Price Schedule, but including Daywork items, where priced competitively;
- (b) price adjustment for correction of arithmetic errors in accordance with ITT 36.1;
- (c) price adjustment due to discounts offered in accordance with ITT 14.4;
- (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITT 37;
- (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITT 29.3; and
- (f) the additional evaluation factors are specified in the **TDS** and Section III, Evaluation and Qualification Criteria.

35.2 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Tender evaluation.

35.3 If this Tender Document allows Tenderers to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the contract combinations, including any discounts offered in the Letter of Tender – Financial Part, is specified in Section III, Evaluation and Qualification Criteria. If, however, rated criteria are used in accordance with ITT 30.2, discounts on condition of award of more than one contract shall not be used for Tender evaluation purpose.

36. Correction of Arithmetical Errors

36.1 If Tenders have been invited on single responsibility basis in terms of ITT 14, the Tenderer is deemed to have included all prices in the quoted lump sum Tender Price. Arithmetical corrections shall therefore not be made, except that where there is a discrepancy between the amount in words and the amount in figures, the amount in words shall prevail.

36.2 If Tenders have been invited to include any part of the Works to be paid according to quantity supplied or work done in terms of ITT 14, the Employer shall correct arithmetical errors only for the price for such part of the Works on the following basis:

- (a) where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the former shall prevail and the latter will be corrected accordingly; and
- (b) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related

- to an arithmetic error, in which case the amount in figures shall prevail subject to (a) above.
- 36.3 Tenderers shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITT 36.1, shall result in the rejection of the Tender.
- 37. Conversion to Single Currency** 37.1 For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted into a single currency as specified in the **TDS**.
- 38. Provision for Development of Domestic Industry** 38.1 Unless otherwise specified in the **TDS**, provision for development of domestic industry (such as a margin of preference for domestic Tenderers¹) shall not apply.
- 39. Comparison of Tenders** 39.1 The Employer shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 35.1 to determine the Tender that has the lowest evaluated cost.
- 39.2 If ITT 30.2 is applicable, the Employer shall evaluate the technical score and financial score of each tender and determine the Tender with the highest combined technical and financial score in accordance with TDS ITT 30.2.
- 40. Abnormally Low-Priced Tenders** 40.1 An Abnormally Low-Priced Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regard to the Tenderer's ability to perform the Contract for the offered Tender Price.
- 40.2 In the event of identification of a potentially Abnormally Low-Priced Tender, the Employer shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender Document.
- 40.3 After examining the clarifications given and the detailed price analyses presented by the Tenderer, the Employer may as appropriate:
- (a) accept the Tender, if the evidence provided satisfactorily accounts for the low tender price, in which case the Tender is not considered abnormally low; or

¹An individual firm is considered a domestic Tenderer for purposes of the margin of preference if it is registered in the country of the Employer, has more than 50 percent ownership by nationals of the country of the Employer, and if it does not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign contractors. JVs are considered as domestic Tenderers and eligible for domestic preference only if the individual member firms are registered in the country of the Employer or have more than 50 percent ownership by nationals of the country of the Employer, and the JV shall be registered in the country of the Employer. The JV shall not subcontract more than 10 percent of the contract price, excluding provisional sums, to foreign firms. JVs between foreign and national firms will not be eligible for domestic preference.

- (b) accept the Tender, but require that the amount of the Performance Security be increased at the expense of the Tenderer to a level sufficient to protect the Employer against financial loss. The amount of the Performance Security shall generally be not more than 20% of the Contract Price; or
- (c) reject the Tender, if the evidence provided does not satisfactorily account for the low tender price and make a similar determination for the next ranked Tender, if required.
- 41. Unbalanced or Front-Loaded Tenders**
- 41.1 If the Tender that is evaluated as the Most Advantageous Tender is, in the Employer’s opinion, seriously unbalanced or front loaded, the Employer may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Tender prices with the scope of works, proposed methodology, schedule and any other requirements of the Tender Document.
- 41.2 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Employer may as appropriate:
- (a) accept the Tender; or
- (b) accept the Tender, but require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding 20% of the Contract Price; or
- (c) reject the Tender and make a similar determination for the next ranked Tender.
- 42. Most Advantageous Tender**
- 42.1 The Employer shall determine the Most Advantageous Tender. The Most Advantageous Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be substantially responsive to the Tender Documents and:
- (a) when rated criteria are used, is the tender with the highest combined technical and financial score; or
- (b) when rated criteria are not used, is the tender with the lowest evaluated cost.
- 43. Employer’s Right to Accept Any Tender, and to Reject Any or All Tenders**
- 43.1 The Employer reserves the right to accept or reject any Tender and to annul the Tendering process and reject all Tenders at any time prior to Contract Award, without thereby incurring any liability to Tenderers. In case of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.
- 44. Standstill Period**
- 44.1 The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless

extended in accordance with ITT 48. The Standstill Period commences the day after the date the Employer has transmitted to each Tenderer the Notification of Intention to Award the Contract. Where only one Tender is submitted, or if this contract is in response to an emergency situation recognized by the Bank, the Standstill Period shall not apply.

45. Notification of Intention to Award

45.1 The Employer shall send to each Tenderer the Notification of Intention to Award the Contract to the successful Tenderer. The Notification of Intention to Award shall contain, at a minimum, the following information:

- (a) the name and address of the Tenderer submitting the successful Tender;
- (b) the Contract price of the successful Tender;
- (c) the names of all Tenderers who submitted Tenders, and their Tender prices as readout, and as evaluated, and when rated criteria are used, the evaluated technical and financial scores, and the combined total scores;
- (d) a statement of the reason(s) the Tender (of the unsuccessful Tenderer to whom the notification is addressed) was unsuccessful, unless the price or score information in (c) above already reveals the reason;
- (e) the expiry date of the Standstill Period; and
- (f) instructions on how to request a debriefing and/or submit a complaint during the standstill period.

J. Award of Contract

46. Award Criteria

46.1 Subject to ITT 43, the Employer shall award the Contract to the successful Tenderer. This is the Tenderer whose Tender has been determined to be the Most Advantageous Tender.

47. Notification of Award

47.1 Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 43.1 or any extension thereof, and, upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Employer shall notify the successful Tenderer, in writing, that its Tender has been accepted. The notification of award (hereinafter and in the Conditions of Contract and Contract Forms called the “Letter of Acceptance”) shall specify the sum that the Employer will pay the Contractor in consideration of the execution of the Contract (hereinafter and in the Conditions of Contract and Contract Forms called “the Contract Price”).

47.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Employer shall publish the Contract Award Notice which shall contain, at a minimum, the following information:

- (a) name and address of the Employer;
- (b) name and reference number of the contract being awarded, and the procurement method used;
- (c) names of all Tenderers that submitted Tenders, and their Tender prices as read out at Tender opening, and as evaluated, and when rated criteria are used, the evaluated tender scores;
- (d) names of all Tenderers whose Tenders were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor;
- (e) the name of the successful Tenderer, the final total contract price, the contract duration and a summary of its scope; and
- (f) successful Tenderer's Beneficial Ownership Disclosure Form, if specified in TDS ITT 49.1.

47.3 The Contract Award Notice shall be published on the Employer's website with free access if available, or in at least one newspaper of national circulation in the Employer's Country, or in the official gazette. The Employer shall also publish the contract award notice in UNDB online and AIIB website.

47.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

48. Debriefing by the Employer

48.1 On receipt of the Employer's Notification of Intention to Award referred to in ITT 44.1, an unsuccessful Tenderer has three (3) Business Days to make a written request to the Employer for a debriefing. The Employer shall provide a debriefing to all unsuccessful Tenderers whose request is received within this deadline.

48.2 Where a request for debriefing is received within the deadline, the Employer shall provide a debriefing within five (5) Business Days, unless the Employer decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Employer shall promptly inform, by the quickest means available, all Tenderers of the extended standstill period.

48.3 Where a request for debriefing is received by the Employer later than the three (3)-Business Day deadline, the Employer should provide the

debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Contract Award Notice. Requests for debriefing received outside the three (3)-day deadline shall not lead to extension of the standstill period.

48.4 Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

**49. Signing of
Contract**

49.1 The Employer shall send to the successful Tenderer the Letter of Acceptance including the Contract Agreement, and, if specified in the **TDS**, a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form, if so requested, shall be submitted within eight (8) Business Days of receiving this request.

49.2 The successful Tenderer shall sign, date and return to the Employer, the Contract Agreement within twenty-eight (28) days of its receipt.

**50. Performance
Security**

50.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Employer, the successful Tenderer shall furnish the Performance Security in accordance with the General Conditions of Contract, subject to ITT 40.3 (b) and ITT 41.2 (b), using for that purpose the Performance Security Form included in Section X, Contract Forms, or another form acceptable to the Employer.

50.2 Failure of the successful Tenderer to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Employer may award the Contract to the Tenderer offering the next Most Advantageous Tender.

**51. Procurement
Related
Complaint**

51.1 The procedures for making a Procurement-related Complaint are as specified in the **TDS**.

Section II - Tender Data Sheet (TDS)

The following specific data for the Works to be procured shall complement, supplement, or amend the provisions in the Instructions to Tenderers (ITT). Whenever there is a conflict, the provisions herein shall prevail over those in ITT.

A. General	
ITT 1.1	<p>The reference number of the SPN/Tender is: HORC/HRIDC/C-6/2024</p> <p>The Employer is: Haryana Orbital Rail Corporation Limited (HORCL)</p> <p>The name of the Tender is: Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project.</p> <p>The number and identification of lots (contracts) comprising this Tender is: Contract Package (C-6)</p>
ITT 1.2(a)	<p>Electronic – Procurement System</p> <p>The Employer shall use the following electronic-procurement system to manage this Tendering process:</p> <p>eProcurement portal of Govt. of Haryana (https://etenders.hry.nic.in)</p>
ITT 2.1	<p>The Recipient is: Haryana Orbital Rail Corporation Limited (HORCL) through Government of Haryana</p> <p>The Bank Loan: Under process Loan Amount: USD 272 million</p> <p>The name of the Project is: Haryana Orbital Rail Corridor (HORC)</p>
ITT 4.1	<p>Maximum number of members in the JV shall be: Three (03)</p>
ITT 4.1	<p>Add the following after the last sentence of Clause 4.1</p> <p>Highest shareholding member in the JV shall be the Lead member of JV. Minimum percentage share of each JV member shall be as specified in Sub-Clause 3.1.6 of Section III, EQC. No change in constitution or percentage share shall be permitted at any stage after the Tender submission, failing which the Tenderer shall be treated as non-responsive.</p> <p>Authorized Representative of JV shall be from Lead Member of JV.</p>

ITT 4.4	<p>Add the following after the last sentence of Clause 4.4</p> <p>In the event that the Contract is awarded to a foreign Tenderer or to a JV having foreign lead Member, such foreign Tenderer/foreign lead Member shall be required to set up a project office in India in accordance with applicable laws in India, and shall be required to submit a proof of having opened a project office in India along with statutory approvals, if any, prior to submitting any interim payment certificate in accordance with the Contract, failing which no payment shall be made to the Contractor by the Employer (in accordance with the Contract) until such requirement has been complied with by the foreign Contractor. The aforesaid condition of establishing a project office in India shall not be applicable in case the selected Tenderer is a joint venture between an Indian entity and a foreign entity where Indian Member is lead Member.</p>
ITT 4.5	<p>A list of debarred firms and individuals is available on the Bank's external website: https://www.aiib.org/debarment/</p>
<p>B. Contents of Tender Document</p>	
ITT 6.3	<p>Replace ITT 6.3 with the following:</p> <p>The complete Tender Document can be viewed/ downloaded by the Tenderer from eProcurement portal of Govt. of Haryana https://etenders.hry.nic.in. The Employer is not responsible for the completeness of the Tender Document and their addenda, if they were not obtained directly from eProcurement portal of Govt. of Haryana https://etenders.hry.nic.in .</p>
ITT 7.1	<p>For <u>Clarification of Tender purposes</u> only, the Employer's address is:</p> <p>Attention: Chief Project Manager /North</p> <p>Street address: Haryana Rail Infrastructure Development Corporation Limited (HRIDC), IRCON Tower-2, Plot No. 16, Sector-32</p> <p>Floor: 3rd floor</p> <p>City: Gurugram</p> <p>ZIP code: 122003</p> <p>Country: India</p> <p>Telephone: +91 9079360542</p> <p>E-mail: horc.etendering@gmail.com</p>
ITT 7.2	<p>Add the following at the end of Para 7.2:</p> <p>The Tenderer must obtain for themselves information related to site conditions, traffic, location, surroundings, climate, hydrology, meteorological conditions, weather data, availability of power, water, other</p>

	<p>utilities cumulative for construction, access and approach roads to the Site, handling and storage of materials, Waste disposal, applicable laws and regulations and any other matter considered relevant and necessary by them required for submitting their Tender and performance of all of its obligations in accordance with the requirements of Tender Documents.</p> <p>Site visit with the Employer’s Representative will be conducted on the date and time specified below.</p> <p>Date: 03.04.2024</p> <p>Time: 10.00 hrs. IST</p> <p>Tenderers who wish to participate in site visit shall send a request (giving details of the Company, its address, and the name, designation and email of the person attending the Site Visit) through email on the email id (i.e. horc.etendering@gmail.com) on or before 20.11.2023.</p> <p>Tenderer’s Representative who wish to participate in site visit on the given date should assemble at the location given below:</p> <p>Farukhnagar KMP Toll Plaza, District -Gurugram, State- Haryana, Country: India</p> <p>For coordination regarding Site visit, Tenderers may contact: Sh. Sunil Dutt, Senior Manager /HRIDC Telephone: +91 8302109392</p> <p>The costs of visiting the Site shall be at the Tenderer’s own expense.</p>
ITT 7.4	<p>Replace the entire Sub-Clause 7.4 with the following: A Pre-Tender Meeting will take place through online Video conferencing (VC) as well as offline in the Conference room of HRIDC office, IRCON Tower-2, Plot No. 16, Sector-32, Gurugram, Haryana-122003 at the following date and time.</p> <p>Date: 04.04.2024</p> <p>Time: 11.00 hrs. IST</p> <p>The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.</p>

	<p>The prospective Tenderers who wish to join the Pre-Tender Meeting through VC shall send a request (giving details of the Company, its address, and the name, designation and email of the person attending the VC) through email along with an editable soft copy (MS Word) of the queries raised by them on the email id (i.e. horc.etendering@gmail.com) so that a link for Video Conferencing can be sent by HRIDC. The Tenderers should use the following format for any Pre-Tender queries:</p> <table border="1" data-bbox="435 552 1385 1010"> <thead> <tr> <th data-bbox="435 552 560 730">Query No.</th> <th data-bbox="560 552 841 730">Reference to Tender Document (Clause/ Para No. & Page No.)</th> <th data-bbox="841 552 1146 730">Brief Description of Clause/ Para No.</th> <th data-bbox="1146 552 1385 730">Query Raised</th> </tr> </thead> <tbody> <tr> <td data-bbox="435 730 560 779">1.</td> <td data-bbox="560 730 841 779"></td> <td data-bbox="841 730 1146 779"></td> <td data-bbox="1146 730 1385 779"></td> </tr> <tr> <td data-bbox="435 779 560 827">2.</td> <td data-bbox="560 779 841 827"></td> <td data-bbox="841 779 1146 827"></td> <td data-bbox="1146 779 1385 827"></td> </tr> <tr> <td data-bbox="435 827 560 875">3.</td> <td data-bbox="560 827 841 875"></td> <td data-bbox="841 827 1146 875"></td> <td data-bbox="1146 827 1385 875"></td> </tr> <tr> <td data-bbox="435 875 560 924">4.</td> <td data-bbox="560 875 841 924"></td> <td data-bbox="841 875 1146 924"></td> <td data-bbox="1146 875 1385 924"></td> </tr> <tr> <td data-bbox="435 924 560 972">5.</td> <td data-bbox="560 924 841 972"></td> <td data-bbox="841 924 1146 972"></td> <td data-bbox="1146 924 1385 972"></td> </tr> <tr> <td data-bbox="435 972 560 1010">etc.</td> <td data-bbox="560 972 841 1010"></td> <td data-bbox="841 972 1146 1010"></td> <td data-bbox="1146 972 1385 1010"></td> </tr> </tbody> </table> <p>HRIDC will allow maximum of one email Id for one company to participate in the VC. Any request for VC received after the given date and time for sending the link for VC may not be entertained by HRIDC. Prospective Tenderers will be able to join the VC through the link provided to them on their Email ID.</p>	Query No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No.	Query Raised	1.				2.				3.				4.				5.				etc.			
Query No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No.	Query Raised																										
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5.																													
etc.																													
ITT 7.5	<p>Replace ITT 7.5 with the following:</p> <p>The Tenderer is requested to submit any questions in writing, to reach the Employer not later than 2 days before the Pre-Tender Meeting.</p>																												
ITT 7.6	<p>Replace ITT 7.6 with the following:</p> <p>Minutes of the Pre-Tender Meeting, including the text of the questions raised, without identifying the source, and the responses given, together with any responses prepared after the meeting will be uploaded on eProcurement portal, https://etenders.hry.nic.in. Any modification to the Tender Document that may in the sole discretion of the Employer become necessary as a result of the Pre-Tender meeting shall be made by the Employer exclusively through the use of an Addendum pursuant to ITT 8.</p>																												

ITT 8.2	<p>Replace ITT 8.2 with the following:</p> <p>Any addendum issued shall be part of the Tender Document and shall be uploaded on eProcurement portal, https://etenders.hry.nic.in.</p> <p>The onus is on the Tenderers to visit the eProcurement portal to see the Addenda/Corrigenda published by the Employer.</p>
C. Preparation of Tenders	
ITT 10.1	<p>The language of the Tender is: English.</p> <p>All correspondence exchange shall be in English language.</p> <p>Add the following at the end of Sub-Clause ITT 10.1</p> <p>In case the Certificates/ documents other than Power of Attorney are in foreign language, the translation of the same shall be submitted in English language. The translation of Certificates / documents in foreign language shall be done by the licensed translator. Tenderer must submit copy of license issued by the competent authority in their country of origin. POA should be submitted in accordance with Sub-Clause ITT 20.</p>
ITT 11.1	<p>Replace ITT 11.1 with the following:</p> <p>The Tenderer shall submit their Tender online on eProcurement portal https://etenders.hry.nic.in as mentioned in para ITT 21.</p> <p>The Tender shall comprise two parts submitted simultaneously, one called the Technical Part containing the documents listed in ITT 11.2 and the other the Financial Part containing the documents listed in ITT 11.3.</p> <p>The Tenderer shall upload only the above-mentioned documents in its submission on eProcurement portal and is not required to upload Part 1, Part 2 and Part 3 of the Tender document issued by the Employer. The master copy of Tender Document published on eProcurement portal shall be available with HRIDC which shall be final and binding.</p>
ITT 11.2	<p>Replace the entire Sub-Clause 11.2 with the following:</p> <p>The Tenderer shall submit all the documents in its Technical Part as per the Checklist CL (A. Technical Part) given in Section III: Evaluation and Qualification Criteria.</p>
ITT 11.3	<p>Replace the entire Sub-Clause 11.3 with the following</p> <p>The Tenderer shall submit all the documents in its Financial Part as per the Checklist CL (B. Financial Part) given in Section III: Evaluation and Qualification Criteria</p>
ITT 13.1	Alternative Tenders shall not be considered.

ITT 13.2	Alternative times for completion shall not be permitted.
ITT 13.4	Alternative technical solutions shall not be permitted.
ITT 14.2	<p>Replace ITT 14.2 with the following: - The Tenderer shall quote the total lump sum price on “single responsibility basis” for Schedule ‘A’ in the prescribed place of Price Schedule in MS-Excel file. The Tenderer shall quote single percentage (%) Excess (+) or Less (-) on the estimated amount for Schedule ‘B’, Schedule ‘C’ and Schedule ‘D’ in the prescribed place of Price Schedule in MS-Excel file.</p>
ITT 14.4	<p>Replace ITT 14.4 with the following: - No discounts shall be quoted by the Tenderers.</p>
ITT14.7	<p>Replace ITT 14.7 with the following: All duties (except Custom Duty), taxes including Goods and Services Taxes (GST), royalties, fees, cess and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer. The Tenderer must take note of Sub-Clause 14.1, Part B-Specific Provisions, Section IX: Particular Conditions of Contract (PCC) for quoting rates and prices of their Tender.</p>
ITT 15.1	<p>The currency(ies) of the Tender and the payment currency(ies) shall be as described below: The prices shall be quoted by the Tenderer in the Price Schedule in Indian Rupees (INR) only. A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer’s Country (referred to as “the foreign currency requirements”) shall indicate in the Appendix A to Financial Part - Table B, Section IV-Tender Forms the percentage(s) of the Tender Price (excluding Provisional Sums), needed by the Tenderer for the payment of such foreign currency requirements, limited to any three freely convertible currencies.</p>
ITT 18.1	The Tender validity period shall be 180 days after the Tender submission deadline date.
ITT 19.1	The Tenderer shall furnish a Tender Security for an amount of INR 10,000,000.00 (INR Ten Million only) or the equivalent amount in a freely convertible currency. The rates of exchange for computing INR equivalent shall be the reference rate prevailing twenty-eight (28) days prior to the deadline of Tender submission. Exchange rates shall be taken from the sources specified in Note 1 (iii) given under Sub-Clause 3.4, Section III, EQC.

ITT 19.2	Not Applicable
ITT 19.3	<p>Replace the ITT 19.3 with the following:</p> <p>The amount for Tender Security specified in ITT 19.1 above can be paid online by eligible Tenderers on eProcurement Portal in INR in favour of Haryana Rail Infrastructure Development Corporation Limited using the electronic payment gateway service or Tender Security can be submitted in the form of unconditional and irrevocable Bank Guarantee in INR or the equivalent amount in a freely convertible currency from the specified banks using the Tender Security Form included in Section IV, Tender Forms. The Bank Guarantee shall be issued from:</p> <ul style="list-style-type: none"> (i) a scheduled bank (excluding co-operative banks) in India, or (ii) a Foreign Bank having arrangement with a nationalized bank or scheduled banks (excluding co-operative banks) in India; <p>The scheduled bank issuing the bank guarantee shall be on “Structure Financial Messaging System (SFMS)” platform. A separate advice of the Bank Guarantee shall invariably be sent by the issuing bank to the Employer’s Bank through SFMS and only after receipt of the same by the Employer’s Bank, the bank guarantee shall become operative and acceptable to the Employer. Further, the bank guarantee in original form along with a copy of “MT760COV (in case of bank guarantee message)/ MT767COV (in case of bank guarantee amendment message) Report” sent by the concerned issuing bank sealed in an envelope shall be submitted to the Employer within ten (10) days of deadline of submission of Tender.</p> <p>The Issuing Bank shall send the SFMS to: Beneficiary: Haryana Rail Infrastructure Development Corporation Limited</p> <p>Bank Name: State Bank of India Account Number: 38848977231 Branch: SME Branch, Sector 8, Chandigarh IFSC Code: SBIN0011705</p> <p>The Tender Security shall be valid for twenty-eight (28) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 18.2.</p> <p>In case the Tenderer has opted for Tender Security in the form of an unconditional Bank guarantee, the Tenderer shall upload the scanned copy of Bank Guarantee with the Tender. The original Bank Guarantee shall be</p>

	<p>delivered either by Registered Post/Speed Post/Courier or by hand within ten (10) days of deadline of submission of Tender at the address given below:</p> <p>Chief Project Manager/North Haryana Rail Infrastructure Development Corporation Limited, IRCON Tower-2, 3rd Floor, Plot No. 16, Sector-32, Gurugram, Haryana-122003</p> <p>Non submission of scanned copy of Bank Guarantee with the Tender on eProcurement portal and/or no submission of original Bank Guarantee within the specified period shall lead to summary rejection of Tender. The details of the Original Bank Guarantee should match with the details available in the scanned copy and the data entered during Tender submission time, failing which the Tender shall be rejected.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. In case SFMS for the Bank Guarantee is not received by the Employer's Bank through SFMS, original copy of BG received in such a manner will be sent to the concerned Bank for its verification and only after its confirmation from the Bank, BG shall be acceptable by the Employer and Tender shall be evaluated . 2. Option of Exemption from payment of EMD mentioned in the module of eProcurement portal is only for exemption of online payment of Tender Security to the Tenderers who wish to submit Tender Security in the form of Bank Guarantee.
ITT 20.1	<p>Replace ITT 20.1 with the following:</p> <p>The Technical Part (comprising of documents specified in ITT 11.2) and Financial Part (comprising of documents specified in ITT 11.3) shall be submitted online on eProcurement portal of Government of Haryana (https://etenders.hry.nic.in) only in accordance with the requirements of the Tender Documents.</p>
ITT 20.3	<p>The written confirmation of authorization to sign on behalf of the Tenderer shall consist of:</p> <p>(a) In case of Private/Public Companies, a Power of Attorney from the Director of the Company who has been authorized by the Board of Directors through resolution to sign on behalf of the Company. Copy of Board Resolution shall also be submitted. In case of Foreign Members, Power of Attorney(s) and Board Resolution confirming authority on the persons issuing the Power of Attorney for such actions shall be submitted duly translated by licensed translator and duly notarized by the notary public of country of origin Where the Successful Tenderer is either a Foreign Entity or one of the Joint Venture Member is a Foreign Entity,</p>

	<p>such Foreign entity shall be required to submit all the documents either duly stamped by Indian Embassy/High Commission or Member Countries of Hague convention may submit these document with “Apostille” stamp before signing the Contract.</p> <p>(b) In case of Proprietary Tenderers, Power of Attorney by the Proprietor.</p> <p>(c) In case of Partnership firms, Power of Attorney duly signed by all the Partners.</p> <p>(d) In case of Limited Liability Partnership (LLP) firms, a Power of Attorney issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP.</p> <p>(e) In case of Joint Venture, Power of Attorney duly signed by authorized representative of individual Member in favour of the Lead Member and Authorized representative of JV.</p> <p>(f) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.</p>
<p>D. Submission of Tenders</p>	
<p>ITT 21</p>	<p>Replace ITT 21 with the following:</p> <p>21.1 Tenderers shall upload their tender submission online on eProcurement portal (i.e. https://etenders.hry.nic.in) within the stipulated date and time as mentioned in ITT 22.1. The Tenderer shall ensure that they retain a copy of the receipt/ acknowledgement of their Tender submission which is generated by the system upon successful submission of Tender online.</p> <p>21.2 Tenders sent telegraphically or through any other means of transmission except as mentioned above shall be treated as invalid and shall stand rejected.</p> <p>21.3 No details about Financial Part shall be submitted/ disclosed directly or indirectly in the Technical Part failing which the Employer has the right to reject the Tender.</p> <p>21.4 Instructions for Online Tender Submission</p> <p>The Tenderers are required to submit soft copies of their Tenders electronically on the eProcurement portal of Government of Haryana i.e., https://etenders.hry.nic.in, using valid Digital Signature Certificates. The instructions given below are meant to assist the Tenderers in registering on the eProcurement Portal, prepare their</p>

	<p>Tenders in accordance with the requirements and submitting their Tenders online on the eProcurement Portal.</p> <p>Registration:</p> <ol style="list-style-type: none">i) Tenderers are required to enroll on the above-mentioned eProcurement portal by clicking on the link “Online Bidder Enrollment” on the Portal which is free of charge.ii) As part of the enrolment process, the Tenderers will be required to choose a unique username and assign a password for their accounts.iii) Tenderers are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the eProcurement Portal. <p>A. Obtaining a Digital Certificate:</p> <ol style="list-style-type: none">i. The Tenders submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the Tenderer online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.ii. A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant’s PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Postmaster / Gazetted Officer. Only upon the receipt of the required documents, a digital certificate can be issued. For more details please visit the website – https://etenders.hry.nic.iniii. The Tenderers may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub-certifying Authority authorized by the Controller of Certifying Authorities or may obtain information, application format and documents required for the issue of digital certificate.iv. The Tenderer must ensure that he/she comply by the online available important guidelines at the portal https://etenders.hry.nic.in for Digital Signature Certificate (DSC) including the e-Token carrying DSCs. <p>For any queries related to e-tendering process (registration, online e-bid submission/withdrawal, uploading of documents), Tenderer may contact the below representative of NIC:</p> <p>Mr. Anuj Mahajan E - mail: amahajan@nic.in, eprocnicry@yahoo.com</p>
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Help Desk: 0120-4001002, 0120-4200462, 0120-4001005, 0120-6277787, 0172-2700275.

- v. Tender for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt and sign the data during the stage of Tender preparation. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the Tender online.

Hence, the users are advised **to keep a backup of the certificate** and also keep the copies at safe place under proper security (for its use in case of emergencies).

- vi. In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a Tender, it will be considered equivalent to a no-objection certificate/power of attorney/lawful authorization to that User only for accessing eProcurement portal for online Tender submission on the portal. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to Tender on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.
- vii. In case of any change in the authorization, it shall be the responsibility of management/ partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person/ user on behalf of the firm/ company. The procedure for application of a digital certificate however will remain the same for the new user.
- viii. The same procedure holds true for the authorized users in a private/Public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

B. Purchase of Tender Document - Online

For purchasing the Tender Document online, Tender Document Fee is NIL. Tender Document can be downloaded free of cost from the eProcurement portal <https://etenders.hry.nic.in> .

C. Pre-requisites for online Tendering:

In order to operate on the electronic tender management system, a user's machine is required to be set up. A help file on system setup/Pre-requisite can be obtained from National Informatics Center or downloaded from the home page of the website - <https://etenders.hry.nic.in> the link for downloading required java applet & DC setup are also available on the Home page of the eProcurement Portal.

D. Online Viewing of Specific Procurement Notice (SPN):

The Tenderers can view the SPN and the time schedule (Key Dates) through the single portal eProcurement system on the Home Page at <https://etenders.hry.nic.in>

E. Downloading of Tender Documents:

The detailed Tender Document can be downloaded free of cost from the eProcurement portal <https://etenders.hry.nic.in> from **12.03.2024 (17:00 Hrs. IST) to 31.05.2024 (15:00 Hrs. IST.)**

F. Key Dates:

The Tenderers are strictly advised to follow dates and times as indicated in the online Specific Procurement Notice. The date and time shall be binding on all Tenderers. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Specific Procurement Notice.

G. Online Payment of E-Service Fee & Tender Security:

The online payment for E-Service Fee and Tender Security in INR or equivalent amount in any other freely convertible foreign currency shall be made using the secure electronic payment gateway by Tenderers online directly through Debit Cards & Internet Banking accounts.

The secure electronic payments gateway is an online interface between Contractors and Debit card/online payment authorization networks.

For online payments guidelines, please refer to the Home page under tab **“Guidelines for hassle free Bid Submission”** of the eProcurement Portal of Government of Haryana, <https://etenders.hry.nic.in>.

Payment of E-Service Fee & Tender Security online shall be submitted well in advance prior to last date of submission Tender to avoid last minute problem in payment of E-Service Fee & Tender Security online on eProcurement portal. Date of submission of Tender shall not be extended on this ground.

H. Offline Payment of Tender Security

For submission of the Tender Security in the form of BG (Tender Security offline Payment), System will direct Tenderer to the EMD details page (EMD Payment offline). Following Steps are to be followed:

Step 1: Select 'Yes' option where system asks "Are you submitting EMD through BG/ST or Exempted from EMD payment".

Step2: Select 'Percentage' option to choose EMD exemption type and insert 100% as exemption.

Step 3: Tenderer must upload scanned copy of Bank Guarantee as EMD exemption document on eProcurement Portal. After uploading the document, Tenderer must sign the document digitally.

Step 4: To confirm the details of payment, Tenderer must Select option "Confirm to pay"

Step 5: Tenderer must enter the details of BG as EMD fee detail on EMD offline payment page

Note: Option of Exemption from payment of EMD mentioned in the module of eProcurement portal is only for exemption of online payment of Tender Security to the Tenderers who wish to submit Tender Security in the form of Bank Guarantee.

I. Preparation & Submission of online Applications/Tenders:

i. Tender shall mandatorily be submitted online following the instruction appearing on the screen.

ii. **Scan copy of Documents to be submitted/uploaded for Technical Part under online PQQ/ Technical Envelope:**

All documents shall be prepared and scanned in file formats PDF /JPEG/MS WORD format such that file size does not exceed 10 MB) and uploaded during the online submission of PQQ or Technical Envelope.

iii. **FINANCIAL PART (MS-Excel File for quoting price and Pdf file for Letter of Tender-Financial Part and Appendix A and Appendix B to Letter of Tender- Financial Part) shall be**

	<p>submitted mandatorily online under Commercial Envelope and original not to be submitted manually.</p> <p>NOTES:</p> <p>(A) Tenderers participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal https://etenders.hry.nic.in.</p> <p>(B) For help manual, please refer to the ‘Home Page’ of the eProcurement website at https://etenders.hry.nic.in.</p>
ITT 22.1	<p>Replace ITT 22.1 with the following:</p> <p>The Tender submission is through the eProcurement portal only (i.e. https://etenders.hry.nic.in) as specified in ITT 21.1</p> <p>The Tenderer shall submit its Tender before expiry of the date and time for tender submission as specified herein.</p> <p>The start date for Tender submission is:</p> <p>Date: 22.05.2024</p> <p>Time: 11.00 hrs. IST</p> <p>The deadline for Tender submission is:</p> <p>Date: 31.05.2024</p> <p>Time: 15.00 hrs. IST</p>
ITT 23.1	<p>Replace ITT 23.1 with the following:</p> <p>Submission of Tenders shall be closed on eProcurement portal on the date & time of submission as prescribed in ITT 22.1 after which no Tender can be uploaded.</p>
ITT 24	<p>Replace ITT 24 with the following:</p> <p>24.1 The Tenderer may modify, substitute or withdraw its e-Tender after submission prior to the deadline for submission of Tenders. For modification of e-Tender, Tenderer has to detach its old Tender from eProcurement portal (https://etenders.hry.nic.in) and upload/ resubmit digitally signed modified Tender. For withdrawal of Tender, Tenderer has to click on withdrawal icon at eProcurement portal and can withdraw its e-tender. Before withdrawal of a tender, it may</p>

	<p>specifically be noted that after withdrawal of a tender for any reason, Tenderer cannot re-submit e-tender again.</p> <p>24.2 No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Letter of Tender or any extension thereof.</p>
E. Public Opening of Technical Parts of Tenders	
ITT 25	<p>Replace ITT 25 with the following:</p> <p>25.1 The Employer shall conduct the electronic opening of Technical Part on eProcurement portal on the date, time and place as specified below:</p> <p>Street Address: Haryana Rail Infrastructure Development Corporation Limited (HRIDC), IRCON Tower-2, 3r Floor, Plot No. 16, Sector-32</p> <p>Floor/ Room number: 1st floor</p> <p>City: Gurugram</p> <p>Zip code: 122003</p> <p>Country: INDIA</p> <p>Date: 31.05.2024</p> <p>Time: 15.30 Hrs. IST</p> <p>The opening of the Technical Part and subsequent details can be viewed by the Tenderers by logging on the eProcurement portal. Alternatively, any Tenderer who wish to attend the Technical Part opening can be present during the opening. The Tenderer's representatives who are present shall be requested to mark their attendance on the format available with the Employer.</p> <p>25.2 The Financial Part submitted online on eProcurement portal will remain unopened in the eProcurement portal until the date and time of opening of Financial Part. The date and time of the opening of the Financial Part will be notified to all the Tenderers on eProcurement portal whose tender is found to be substantially responsive and qualified in technical evaluation as specified in ITT 34.2.</p> <p>25.3 At the time of opening of Technical Part, the following shall be read out and recorded:</p> <p style="padding-left: 40px;">(a) the name of the Tenderer;</p>

	<p>(b) the presence of a Tender Security; and</p> <p>(c) any other details as the Employer may consider appropriate.</p> <p>Only Technical Part read out and recorded at Tender opening shall be considered for evaluation.</p> <p>25.4 The Employer shall prepare a record of the opening of Technical Part that shall include, as a minimum, the name of the Tenderer and the presence or absence of Tender Security. The Tenderer’s representatives who are present shall be requested to sign the record available with the HRIDC. The omission of a Tenderer’s signature on the record shall not invalidate the contents and effect of the record.</p> <p>25.5 At the tender opening the Employer shall neither discuss the merits of any Tender nor reject any Tender.</p>
F. Evaluation of Tenders – General Provisions	
ITT 27	<p>Replace ITT 27 with the following:</p> <p>27.1 To assist in the examination, evaluation and comparison of the Tenders, the Employer may, at its discretion, ask any Tenderer for a clarification of its Tender in accordance with ITT Clause 29. Any clarification submitted by a Tenderer that is not in response to a request by the Employer shall not be considered. The Employer’s request for clarification and the response shall be in writing and delivered to concerned Tenderers (by courier or e-mail through PDF attachment). The due date and time to respond to these queries will also be communicated. No change in the prices or substance of the Tender shall be sought, offered, or permitted, except to confirm the correction of errors discovered by the Employer in the evaluation of the Financial Part, in accordance with ITT Clause 35.</p> <p>27.2 If a Tenderer does not provide clarifications of its Tender by the date and time set in the Employer’s request for clarification, their Tender shall be evaluated as per the available information in the submitted Tender.</p>
ITT 29.3	Not Applicable
G. Evaluation of Technical Parts of Tenders	
ITT 30.2	Not Applicable

ITT 32.4	<p>Replace ITT 32.4 with the following:</p> <p>Only Tenders that are both substantially responsive to the Tender Document, and meet all Qualification Criteria, shall be notified on eProcurement portal for the public opening of “FINANCIAL PART”.</p>
ITT 33.1	Subcontractor is permitted for the activity specified in ITT 33.3.
ITT 33.2	Maximum allowable accumulated value of work to be subcontracted (as a percentage of the Accepted Contract Amount) - 30%
ITT 33.3	<p>Specialist Subcontractors are permitted for the following activities:</p> <p>(i) Fabrication, assembly & launching of Open Web Girders (OWG) and</p> <p>(ii) Construction of Ballastless Track System</p>
H. Public Opening of Financial Parts of Tenders	
ITT 34	<p>Replace ITT 34 with the following:</p> <p>34.1 Following the completion of the evaluation of the Technical Parts of the Tenders, and the Bank has issued its no objection (if applicable), the Employer shall notify in writing those Tenderers whose Tenders were considered non-responsive to the Tender Document or failed to meet the Qualification Criteria, advising them of the following information:</p> <ul style="list-style-type: none"> (a) the grounds on which their Technical Part of Tender failed to meet the requirements of the Tender Document; (b) their “FINANCIAL PART” shall remain unopened on the eProcurement portal; (c) notify them of the date, time and location of the public opening of “FINANCIAL PART” on the eProcurement portal; <p>34.2 The Employer shall, simultaneously, notify in writing those Tenderers whose Tenders - Technical Parts have been evaluated as substantially responsive to the Tender Document and met all Qualifying Criteria, advising them of the following information:</p> <ul style="list-style-type: none"> (a) their Tender has been evaluated as substantially responsive to the Tender Document requirements and met the Qualification Criteria; (b) their “FINANCIAL PART” on eProcurement portal will be opened at the public opening of the Financial Parts; and

	<p>(c) notify them of the date, time and location of the public opening of the “FINANCIAL PART” as specified below:</p> <ol style="list-style-type: none"> i. The Employer shall publish a notice of the public opening of the Financial Parts on eProcurement portal. ii. Any interested party who wishes to attend this public opening may contact: <p style="text-align: center;">For the attention: Chief Project Manager/North Haryana Rail Infrastructure Development Corporation Limited</p> <p style="text-align: center;">Email address: horc.etendering@gmail.com</p> <p>34.3 The “FINANCIAL PART” of Tenderers who met the Qualification Criteria and whose Tenders were evaluated as substantially responsive, will be opened on eProcurement portal. The Employer shall read out the names of each Tenderer, and the total Tender prices, including any discounts and any other details as the Employer may consider appropriate.</p> <p>34.4 The Employer shall neither discuss with Tenderer’s representative present, if any, the merits of any Tender nor reject any “FINANCIAL PART”.</p> <p>34.5 The Employer shall prepare a record of the Financial Part of the Tender opening that shall include, as a minimum:</p> <ol style="list-style-type: none"> (a) the name of the Tenderer whose Financial Part was opened; (b) the Tender price; <p>34.6 The Tenderer’s representatives who are present at the time of opening of Financial Part shall be requested to sign the record. The omission of a Tenderer’s signature on the record shall not invalidate the contents and effect of the record. A copy of the record (i.e. summary of rates quoted) can be viewed by all eligible Tenderers after opening of the Financial Part.</p>
I. Evaluation of Financial Parts of Tenders	
ITT 37.1	The currency that shall be used for tender evaluation and comparison purposes is Indian Rupees (INR) only .
ITT 38.1	Provisions for development of domestic industry (such as a margin of domestic preference) shall not apply.

J. Award of Contract	
ITT 47.1	<p>Add the following to ITT 47.1</p> <p>The Accepted Contract Amount shall be in INR only. However, the payments will be made in currencies as quoted by the Tenderer in Appendix A, Table B, Section IV-Tender Forms.</p>
ITT 49.1	<p>The successful Tenderer shall submit the Beneficial Ownership Disclosure Form.</p>
ITT 51.1	<p>The procedures for making a Procurement-related Complaint are detailed in the Bank’s <u>Procurement Instructions for Recipients</u> (Annex IV). A Tenderer may make a Complaint in writing, to:</p> <p style="padding-left: 40px;">For the attention: Chief Project Manager/North Haryana Rail Infrastructure Development Corporation Limited</p> <p style="padding-left: 40px;">Email address: horc.etendering@gmail.com</p>

Section III. Evaluation and Qualification Criteria

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1. General Provisions

1.1 Evaluation Sequence

- (a) Tenders will be evaluated through the following four stages:
 - (i) Stage 1: Evaluation of Administrative Requirements
 - (ii) Stage 2: Evaluation of Compliance with the Qualification Requirements
 - (iii) Stage 3: Technical Evaluation
 - (iv) Stage 4: Financial Evaluation

1.2 Clarification from Tenderers

- (a) The Evaluation Team may request clarification(s) of any Tender in accordance with the provisions of the Tender Documents (Part 1, Section-I: Instructions to Tenderers, Clause 27 and Clause 29).
- (b) If clarification is required, the Evaluation Team will send written (Courier/email with PDF attachment) request(s) to the Authorized Representative for clarification(s), specifying the deadline for receipt of reply.
- (c) Replies to the above request(s) shall be sent by Tenderer through Courier/e-mail with PDF attachments and the same shall be solely to clarify and/or elaborate the item(s) already included in the submitted Tenders for the purpose of evaluation in accordance with ITT 27.1 and ITT 29.

1.3 Tender Forms

- (a) Tenderers should note that the information required to be inserted into the Tender Forms shall be comprehensive and detailed. The technical information shall be furnished in line with the requirements of Part 1, Part 2 and Part 3 of the Tender Documents.
- (b) All Forms contained in the Tender Documents must be fully and properly completed and all the forms must be returned duly signed by Authorized Representative of the Tenderer, as they will be reviewed exactly as submitted and errors or omissions may count against the Tenderer.
- (c) Any Tenderer who is found to have intentionally submitted false or inaccurate statements/information shall be disqualified from the Tendering process.

2. Stages of Evaluation

2.1 Stage 1: Evaluation of Administrative Requirements

A. General

- (a) The Stage 1 Evaluation will consist of checking the Tenders to confirm whether they are substantially responsive to the administrative requirements of the Tender Documents.
- (b) The following administrative items will be checked:
 - (i) Whether the Tender submission is in accordance with ITT 11.2;
 - (ii) Whether the Power of Attorney (POA) for the Tender signatory is in the correct form [Ref. ITT 20.3 and ITT 20.4]. If during technical evaluation stage, POA submitted by the Tenderer is not found in the correct format, Employer will send written (Courier/email with PDF attachment) request to the Authorized Representative for rectification of POA in accordance with format prescribed in Section IV, Tender Forms, specifying the deadline for receipt of Power of Attorney in correct form. If a tenderer does not provide the Power of Attorney in correct form within the stated date and time set in the Employer's request for correction of Power of Attorney, its Tender is liable to be rejected.

2.2 Stage 2: Evaluation of Compliance with the Qualification Requirements

A. General

Tenders will be reviewed to ascertain whether the Tender complies with all of the minimum requirements as stipulated in the Sub-Clause C. Qualification Criteria.

B. Check Items

The following requirements of the Instruction to Tenderers, Clauses 4, 11 & 17 will be checked to ensure compliance to the requirements of criteria given below:

(a) Eligibility

- (i) Nationality: Form ELI-1.1(a), ELI-1.1(b), and Form ELI-1.2
- (ii) Conflict Interest: Letter of Tender-Technical Part
- (iii) Bank Eligibility: Letter of Tender -Technical Part
- (iv) State-owned Enterprise or Institution of the Recipient country: Form ELI-1.1(a), ELI-1.1(b), and Form ELI-1.2, Letter of Tender -Technical Part
- (v) United Nations resolution or Recipient's country law: Letter of Tender-Technical Part

(b) Historical Contract Non-Performance and Litigation

- (i) History of Non-Performing Contracts: Form CON-1
- (ii) Suspension Based on Execution of Tender- Securing Declaration by the Employer: Letter of Tender-Technical Part
- (iii) Pending Litigation: Form CON-1
- (iv) Declaration: Environmental, Social, Health, and Safety (ESHS) past performance: Form CON-2

(c) Financial Situation

- (i) Financial Situation and Performance: Form FIN-3.3.1
- (ii) Average Annual Construction Turnover: Form FIN-3.3.2
- (iii) Bid capacity: Form FIN 3.3.4

(d) Financial Resources

- (i) Financial Resources: Form FIN-3.3.3
- (ii) Average Net Worth: Form FIN- 3.3.1

(e) Experience

- (i) General Construction Experience: Form EXP-3.4.1
- (ii) Specific Construction and Contract Management Experience: Form EXP-3.4.2(a)
- (iii) Specific Construction Experience in Key Activities: Form EXP-3.4.2 (b)

3. Qualification Criteria

If the Tenderer fails to comply with any item of Qualification Criteria given below, the Tenderer shall be disqualified

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
3.1 Eligibility							
3.1.1	Nationality	Nationality in accordance with ITT 4.4	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Forms ELI – 1.1(a). 1.1 (b) and 1.2, with attachments
3.1.2	Conflict of Interest	No conflicts of interest in accordance with ITT 4.2	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender-Technical Part
3.1.3	Bank Eligibility	Not having been declared ineligible by the Bank, as described in ITT 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender-Technical Part
3.1.4	State-owned Enterprise or Institution of the Recipient country	Meets conditions of ITT 4.6	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender-Technical Part
3.1.5	United Nations resolution or Recipient's country law	Not having been excluded as a result of prohibition in the Recipient's country laws or official regulations against commercial	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender-Technical Part

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		relations with the Tenderer's country, or by an act of compliance with UN Security Council resolution, both in accordance with ITT 4.8 and Section V.					
3.1.6	Share of JV members	The share of JV members shall not be less than the specified percentage	N/A	100%	30%	34%	Form ELI-1.3
3.2 Historical Contract Non-Performance							
3.2.1	History of Non-Performing Contracts	Non-performance of a contract ¹ did not occur as a result of contractor default since 1 st April 2019 till 28 days prior to deadline of Tender submission.	Must meet requirement	Must meet requirements	Must meet requirement ²	Must meet requirement	Form CON-1
3.2.2	Suspension Based on	Not under suspension based on-execution of a	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender – Technical Part

¹ Nonperformance, as decided by the Employer, shall include all contracts terminated by the Employer where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the Contractor. Nonperformance shall not include contracts where Employer's decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e., dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Tenderer have been exhausted.

² This requirement also applies to contracts executed by the Tenderer as JV member.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
	Execution of Tender-Securing Declaration by the Employer	Tender/Proposal Securing Declaration pursuant to ITT 4.7 and ITT 19.9					
3.2.3	Pending Litigation	Tenderer's financial position and prospective long-term profitability still sound according to criteria established in 3.3.1 (ii) below and assuming that all pending litigation and arbitration ³ will be resolved against the Tenderer	Must meet requirement	N/A	Must meet requirement	Must meet requirement	Form CON-1
3.2.4	Declaration: Litigation History	Declare History of court/arbitral award decisions against the Tenderer since 1st April 2019 till 28 days prior to deadline of Tender submission.	Must make the declaration	N/A	Must make the declaration	Must make the declaration	Form CON-1

³ Tenderer shall provide accurate information in the tender form CON-1 about any litigation and arbitration resulting from contracts completed or ongoing under its execution over the last five years since 1st April 2019 till 28 days prior to deadline of tender submission.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
3.2.5	Declaration: Environmental, Social, Health, and Safety (ESHS) past performance	Declare any civil work contracts that have been suspended or terminated and/or performance security called by an employer for reasons related to the non-compliance of any environmental, or social, or health, or safety requirements or safeguard in the past five years ⁴ preceding 28 days prior to deadline of Tender submission	Must make the declaration	N/A	Must make the declaration.	Must make the declaration	Form CON-2 ESHS Performance Declaration
3.3 Financial Situation and Performance							
3.3.1	Financial Capabilities	(i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means	Must meet requirement	Must meet requirement	Must meet at least 30% <i>[Thirty percentage]</i> of the requirement	Must meet at least 40% <i>[Forty percentage]</i> of the requirement	Form FIN-3.3.3 (Sources of Finance for the subject Contract)

⁴ The Employer may use this information to seek further information or clarifications in carrying out its due diligence.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		(independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as INR 1600.00 million or the equivalent amount in a freely convertible currency (for the subject contract (i.e. C-6).					
		(ii) The Tenderer must demonstrate the current soundness of its financial position and indicate its prospective long-term profitability. As a minimum, a) Average Net-Worth (Total Assets – Total Liabilities)* during the last three (03) financial years (FY: 2021-22, 2022-23 and	Must meet requirement	Must meet requirement	Must meet requirement	Must meet the requirement	Form FIN-3.3.1

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>2023-24) should be positive and</p> <p>b) the Net-worth during the last financial year (FY 2023-24) should be positive.</p> <p>*Note: Amount in dispute against the Tenderer corresponding to all pending litigations and arbitration resulting from contracts completed or ongoing under its execution over the last five years, considering that these will be resolved against the Tenderer (as per Form CON-1 item 2 and 3), shall be subtracted from the average Net Worth calculated as per a) above.</p>					

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
3.3.2	Average Annual Construction Turnover	Minimum average annual construction turnover of INR 9500.00 million or the equivalent amount in a freely convertible currency , calculated as total certified payments received for contracts in progress and/or completed within the last three financial years (FY: 2021-22, 2022-23 and 2023-24) divided by three.	Must meet requirement	Must meet requirement	Must meet at least 30% <i>[Thirty percentage]</i> of the requirement	Must meet at least 40% <i>[Forty percentage]</i> of the requirement	Form FIN-3.3.2
3.3.3	Bid Capacity	The Tenderer shall also demonstrate to the satisfaction of the Employer that it has adequate Bid capacity for the works currently in progress and future contract commitments. The available Bid capacity should be equal to or more than INR 19,000.00 million or the	Must meet requirement	Must meet requirement	Must meet at least 30% <i>[Thirty percentage]</i> of requirement	Must meet at least 40% <i>[Forty percentage]</i> of the requirement	Form FIN – 3.3.2 & Form FIN- 3.3.4

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		equivalent amount in a freely convertible currency. The available Bid capacity will be calculated as per item no. 1 of Form FIN- 3.3.4.					
3.4 Experience							
3.4.1	General Construction Experience	Experience under construction contracts in the role of Prime Contractor, JV Member or Management Contractor or a Sub-Contractor between 1 st April 2017 till 28 days prior to deadline of Tender submission.	Must meet requirement	N/A	Must meet requirement	Must meet requirement	Form EXP-3.4.1
3.4.2 (a)	Specific Construction & Contract Management Experience	Participation, as a Prime Contractor, Joint venture ⁵ Member or	Must meet Requirement of (i) or (ii) or (iii)	Must meet Requirement of (i) or (ii) or (iii)	Must have the experience of executing at least one work of minimum	Must have the experience of executing at least one work of minimum	Form EXP-3.4.2(a)

⁵ Value of completed work done by a Member in an earlier JV shall be reckoned as per the Note 2 given at the end of Sub-Clause 3.4.2 (a), Section III, EQC for purpose of satisfying his/her experience criteria mentioned in 3.4.2(a).

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		Management Contractor ⁶ or Sub-Contractor ⁷ in at least (i) one “similar work”* of minimum value of INR 11,000.00 million or the equivalent amount in a freely convertible currency. *“Similar work” for (i) above shall be any infrastructure work involving construction of Viaduct/Bridges and			value INR 5500.00 million or the equivalent amount in a freely convertible currency involving construction of Viaduct/ Bridges or Earthwork in formation for	value INR 5500.00 million or the equivalent amount in a freely convertible currency involving construction of Viaduct/ Bridges or Earthwork in formation for	

⁶ A management contractor is a firm which takes on the role of contract management as a “general” contractor of sort could do. It does not normally perform directly the work(s) associated with the Contract. Rather, it manages the work of other Contractors/Sub-Contractors while bearing full responsibility for quality and timely performance of the contract. If the Tenderer or any of the JV member submits experience certificate as a Management Contractor then the documents issued by the Employer (owner of the work)/ concessionaire in support of his being appointed as Management Contractor shall only be considered for evaluation and qualification purpose. In case the Tenderer fails to submit such document(s) issued by the Employer (owner of the work) / Concessionaire, the offer of the Tenderer is liable to be rejected.

⁷ If a tenderer has successfully completed a work as Sub-Contractor, the work experience certificate issued only by the Employer (owner of the work) / Concessionaire for such work to Sub-Contractor shall be considered for the purpose of fulfillment of credentials. Tenders submitted without this documentary proof is liable to be rejected.

For example: Entity ‘A’ is the owner of the work and awards a contract for execution of work to Contractor ‘X’. Thereafter, Contractor ‘X’ sublets part of the work to Sub-Contractor ‘Y’. In this case, experience certificate of Sub-Contractor ‘Y’ issued only by Entity ‘A’ / Concessionaire shall be considered for the purpose of evaluation of the Tender. Experience certificate issued by Contractor ‘X’ to Sub-Contractor ‘Y’ shall not be considered and the offer submitted based on such certificate is liable to be rejected.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>Earthwork in formation for “Railway Project”⁸ / Road project.</p> <p>OR</p> <p>(ii) two “similar works”* each of minimum value of INR 7500.00 million or the equivalent amount in a freely convertible currency.</p> <p>*“Similar work” for (ii) shall be any infrastructure work in which both the works combined together involve construction of Viaduct/ Bridges and Earthwork in formation for “Railway Project”/ Road project.</p> <p>OR</p> <p>(iii) three “similar works”* each of minimum value of</p>			<p>“Railway Project”/ Road Project that has been successfully completed or substantially completed since 1st April 2017 till 28 days prior to deadline of Tender submission</p>	<p>“Railway Project”/ Road Project that has been successfully completed or substantially completed since 1st April 2017 till 28 days prior to deadline of Tender submission</p>	

⁸ Railway Project includes projects of Railway/ Metro Rail / Regional Rapid Transit System (RRTS) / High Speed Rail / Dedicated Freight Corridor (DFC).

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>INR 5500.00 million or the equivalent amount in a freely convertible currency or more.</p> <p>“Similar work” for (iii) shall be any infrastructure work in which all the three works combined together involve construction of Viaduct/ Bridges and Earthwork in formation for “Railway Project”/ Road Project .</p> <p>The <i>Works</i> mentioned in (i) or (ii) or (iii) above must have been successfully completed or substantially completed⁹ since 1st April 2017 till 28 days prior to deadline of</p>					

⁹ Substantial completion shall be based on 80% or more of the original or revised value (whichever is lower) of works completed under the contract. Completion or substantial completion of work shall be based on completion/substantial completion certificate issued by the Employer (Owner of the Work) / Concessionaire.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		Tender submission and that are similar to the proposed works.					
3.4.2 (b)	Specific Construction Experience in Key Activities	<p>Participation, as a Prime Contractor, Joint venture member or Management Contractor or Sub-Contractor in:</p> <p>(i) Construction of minimum 2.0 km cumulative length ¹⁰ of viaducts / Bridges in one contract of infrastructure project in “Railway Project”/ Road Project.</p>	Must meet requirement of (i),(ii)and (iii)	Must meet requirement of (i),(ii)and (iii)	Must meet requirement of either (i) or (ii) or (iii)	Must meet requirement of either (i) or (ii) or (iii)	Form EXP-3.4.2 (b)(i), Form EXP-3.4.2 (b)(ii) and Form EXP-3.4.2 (b)(iii)

¹⁰. Evaluation of length of spans for multitrack/ multilanes bridges shall be done as under:

- In case of Railway bridges/Metro viaduct, accommodating multiple tracks, the length of span for each track shall be taken into consideration. In case of Road bridges accommodating multilanes, the credit for length of one span shall be given for every two lanes.
- The credit for multiple tracks/multilanes (exceeding two lanes) shall be given only if the number of tracks or number of lanes is specifically mentioned in the certificate of the Employer.
- For evaluation purpose, length of bridge will be measured from abutment to abutment of the bridge or the length of bridge certified in the Employer (Owner of the Work) / Concessionaire Certificate.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p style="text-align: center;">AND</p> <p>(ii) Execution of minimum equivalent length of 10,000 RM Pile foundation (of minimum dia. 1000 mm)/Well¹¹ foundation in one contract of infrastructure project in “Railway Project”/ Road Project ,</p> <p style="text-align: center;">AND</p> <p>(iii) Execution of Earthwork in formation for 2.0 million cum in one contract of infrastructure project in “Railway Project”/ Road Project .</p>					

¹¹ **Calculation of equivalent length (RM) of Pile/Well foundation:**

- a) In case of Well foundation, depth of 1 RM Well foundation shall be considered equivalent to construction of 6 RM depth of Pile foundation (i.e., 1 RM Well foundation= 6 RM Pile foundation).

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>Note: Earthwork in formation/cutting, Blanketing, GSB/WMM in Railway/Road projects will be considered as part of Earthwork.</p> <p>The key activities mentioned in (i), (ii) and (iii) above should have been executed in completed / On going contract¹² since 1st April 2017 till 28 days prior to deadline of Tender submission.</p>					

¹² The Tenderer shall submit copy of completion certificate/experience certificate issued by the Employer (Owner of the Work) / Concessionaire clearly indicating the executed quantities of key activities.

Notes:**1. Exchange Rate for Qualification Criteria**

Wherever a Form in Section IV, Tender Forms, requires a Tenderer to state a monetary amount, Tenderers shall indicate the INR equivalent as indicated in the respective form using the rate of exchange determined as follows:

- (i) For construction turnover or financial data required for each year – Exchange rate prevailing on the last day of the respective financial year.
 - (ii) Value of single contract - Exchange rate prevailing on the date of the Contract Award i.e. the date of issue of Letter of Acceptance.
 - (iii) Exchange rates shall be taken from reference rate published by the Reserve Bank of India (RBI) on its website <https://www.rbi.org.in>. In case the exchange rate of particular currency on given date is not available on RBI web site, it will be as per the web site <https://www.fbil.org.in> of Financial Benchmark India Private Limited (FBIL). Any error in determining the exchange rates may be corrected by the Employer. In the case, where a Tenderer is required to convert a monetary amount from a currency other than those currencies for which the RBI/FBIL reference rate is not published, the INR equivalent shall be worked out using the rate of exchange as published by the central bank of the country issuing the said currency. In case the exchange rate of that currency is not directly available in INR on the website of the central bank of the country issuing the said currency then the currency will be first converted to USD as per that web site and then converted from USD to INR as Per RBI or FBIL reference rates.
2. Value of completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for purpose of satisfying his/her experience criteria mentioned in 3.4.2(a).
 3. For past experience of a firm in earlier JV for specified key activity in Sub-Clause 3.4.2 (b) credit shall be given for execution of only the quantity of the specified key activity executed by the firm as part of a JV, duly certified by the Employer (owner of work)/ Concessionaire. If the Employer's (owner of work)/ Concessionaire's Certificate does not indicate the quantity of specified key activity executed by each member, in such a case credit for quantity of specified key activity shall be given as per following provisions in order of priority:
 - (i) As per details given in JV agreement forming part of the relevant Contract Agreement.
 - (ii) If JV agreement does not provide such details, then credit shall be given in proportion of the percentage share of the firm in that JV mentioned in the Employer's (owner of work)/ Concessionaire's Certificate/ JV Agreement.

4. *In case a JV quoting for the Tender has executed similar work specified in 3.4.2(a) and key activities specified in Sub-Clause 3.4.2 (b) with the same constitution of JV, the requirement specified to be met under Sub-Clause 3.4.2(a) and Sub-Clause 3.4.2(b) shall be considered to have been met treating the JV as a single entity for this purpose.*
5. *For Sub-Clause 3.3.2, Average Annual Construction Turnover, the Tenderer should submit actual construction turnover figures for the specified financial years. For Evaluation purposes the figures of previous years shall be updated @ 5% per year compounded annually based on Rupee value to bring them to the level of the last Financial Year specified in Sub-Clause 3.3.2. If the figure for turnover in an individual year is in a currency other than INR, then the same shall first be converted to INR based on the exchange rates derived as mentioned in Note 1 above and then the figures in INR shall be updated.*
6. *For Sub-Clause 3.4.2 (a) Specific Construction & Contract Management Experience,*

The Tenderer should submit actual Value of Work completed/ substantially completed. Value of Work for Evaluation purposes shall be updated @ 5% per year compounded annually based on Rupee value to bring them to the price level of date of deadline for submission of Tenders. Updated value shall be calculated as per formula given below:-

$$P=Qx [1.05]^{N/365}$$

Where

P = updated value of work on deadline for submission of Tenders.

Q = value of work on the date of completion/substantial completion as indicated in the Employer's certificate.

N = Number of days between date of completion and deadline for submission of Tenders.

4. Stage 3: Evaluation of Technical Proposal

A. Procedure for Evaluation of Technical Proposal

- (a) The Stage 3 Evaluation will consist of checking the technical aspects of the Tenders to confirm whether they substantially conform to the requirements of the Tender Document.
- (b) In order to determine whether the Tender substantially conforms to the technical requirements of the Tender Document, the technical proposal shall broadly cover the following items in relevant Forms:

S. No.	Technical Evaluation Items	Relevant Forms
1.	Site Organization	Form TP-1, Technical Proposal, Section IV Tender Forms
2.	Outline Method Statement	Form TP-2, Technical Proposal, Section IV Tender Form
3.	Works Execution Programme	Form TP-3, Technical Proposal, Section IV Tender Form
4.	Contractors Representative and Key Personnel as per the list given in Table-1 below	Form PER-1 and PER-2, Section IV Tender Form
5.	Key Equipment as per the list given in Table-2 below	Form EQU, Section IV Tender Form

(i) Site Organization

The Tenderer must submit Site Organization in the Form TP-1 given in Section IV Tender Forms.

(ii) Outline Method Statement

The Tenderer must submit Outline Method Statement in the Form TP-2 given in Section IV Tender Forms.

(iii) Works Execution Programme

The Tenderer must submit Works Execution Programme in the Form TP-3 given in Section IV Tender Forms.

(iv) Contractor's Representative and Key Personnel

The Tenderer must demonstrate that it will have a suitably qualified Contractor's Representative and suitably qualified (and in adequate numbers) Key Personnel, as described in the Table below.

Table 1: Contractor’s Representative and Key Personnel

S. No.	Designation	Qualification	Minm. Nos. Required	Experience Level
1.	Contractor’s Representative/ Project Manager	Graduate in Civil Engineering	1	Minimum total experience of 10 years out of which, minimum 2 years as In-charge in projects of Railway/ DFC/ Metro/ RRTS/ Highway /Expressways.
2.	Deputy Project Manager	Graduate/ Diploma in Civil Engineering	3	Minimum total experience of 06/08 years out of which minimum 03/05 years in relevant filed of projects of Railway/ DFC/ Metro/ RRTS/ Highway /Expressways.
3.	Planning Engineer	Graduate in Civil Engineering	1	Minimum total experience of 05 years out of which minimum 01 years in relevant field in planning of Infrastructure projects.
4.	Senior Quality Assurance /Quality Control Expert	Graduate / Diploma in Civil Engineering	3	Minimum total experience of 05/07 years out of which minimum 02/04 years in QA (Field) in Infrastructure Projects.

The Tenderer shall provide details of the Contractor’s Representative and Key Personnel in the relevant Forms PER-1 and PER-2 in Section IV, Tender Forms

(v) Key Equipment

The Tenderer must demonstrate that it has the key equipment listed in the Table 2 below:

Table 2: Equipment

S. No.	Equipment Type	Minimum Numbers required
1.	Hydraulic Piling Rig	06
2.	Excavator	12
3.	Grader	06
4.	Dozer	06

The Tenderer shall provide details of the Equipment in the relevant Form EQU in Section IV, Tender Forms.

Noncompliance, if any, with Contractor's Representative and Key Personnel (in sub-para iv above) and Key Equipment requirements (in sub-para v above) described in this Section shall not normally be a ground for tender rejection, and such noncompliance will be subject to clarification during tender evaluation and rectification prior to contract award.

- (c) It is expected that the Tenderer visits the site and is fully aware of all the work requirements under this Tender and then prepares the Technical Part.

All Tenders which are found substantially responsive after Stage 3 evaluation will proceed to the next stage.

5. STAGE 4: Financial Evaluation

The activities in this Stage 4 will be in two (2) parts.

A. Evaluation of Compliance and Responsiveness

(a) Under this Stage the following items will be checked:

- (i) Whether the Letter of Tender-Financial Part is compliant (i.e. does not include any alteration to the basic terms and does not constitute an alternative offer).
- (ii) Whether Financial Part has not been altered and is correctly completed and signed.

B. Detailed Financial Evaluation

- (a) Financial Part shall be evaluated in accordance with ITT “I. Evaluation of Financial Parts of Tenders”.
- (b) Award of the Contract shall be done in accordance with ITT “J. Award of Contract”.

Checklist-CL**Checklist of submission of Documents/Forms online, duly filled**

(Reference to TDS-ITT 11.2 & 11.3, Section II, Part 1)

A. TECHNICAL PART

S. No.	Requirement of Tender Document	Ref. Clause of Tender documents	Tenderer's Name:	
			Whether information submitted (Yes/No/N.A.)	Ref. Pg No. in the Technical Submittal
1.	Letter of Tender-Technical Part	ITT 11.2 (a) and Section IV		
2.	Technical Part signed by authorized representative of Single Entity/Joint Venture	ITT 20.3		
3.	Tender Security- Online Receipt or Scanned copy of Bank Guarantee	ITT 19.1, ITT 19.3 and Appendix E of Section IV		
4.	Form ELI – 1.1: (a) Tenderer Information Form (Single Entity)	ITT 17.1 and Appendix D of Section IV		
5.	Form ELI – 1.1: (b) Tenderer Information Form (JV)	ITT 17.1 and Appendix D of Section IV		
6.	Form ELI – 1.2: Tenderer's JV Member Information Form	ITT 17.1 and Appendix D of Section IV		
7.	Form ELI – 1.3: Joint Venture Agreement	ITT 17.1 and Appendix D of Section IV		
8.	Form ELI-1.4: Power of Attorney (POA) for Submitting Tender	ITT 20.3 and Appendix D of Section IV		
9.	Board Resolution in case of a Public/Private limited company/LLP	TDS ITT 20.3		
10.	Incorporation Certificate and Memorandum and Articles of Association (MOA & AOA) (in case of Private/Public Limited Company)	Note (iii) (d) of Form ELI 1.4		
11.	Incorporation Certificate and Limited Liability Membership Agreement in case of Limited Liability Membership firms.	Note (iii) (e) of Form ELI 1.4		
12.	Proprietorship Affidavit (in case the Tenderer is Proprietorship Tenderer)	Note (iii) (a) of Form ELI 1.4		
13.	Partnership Deed (in case the Tenderer is Partnership Firm)	Note (iii) (b) of Form ELI 1.4		
14.	Form ELI-1.5: Power of Attorney (POA) for Authorized Signatory of Joint venture (JV) Members	ITT 20.4		
15.	Form ELI-1.6: Power of Attorney to Lead Member and Authorised Representative of Joint venture (JV)	ITT 20.4		

S. No.	Requirement of Tender Document	Ref. Clause of Tender documents	Tenderer's Name:	
			Whether information submitted (Yes/No/N.A.)	Ref. Pg No. in the Technical Submittal
16.	In case of foreign tenderer, the Notarised POA/MOU/JV Agreement is notarised in the country of origin and stamped by Indian Embassy/ High Commission or Member Countries of Hague convention submitted these documents with "Apostille" stamp	Note (i) of Form ELI 1.4		
17.	Form CON - 1: Historical Contract Non-Performance, Pending Litigation and Litigation History	ITT 17.2 and Appendix D of Section IV		
18.	Form CON - 2: Environmental, Social, Health, and Safety Performance Declaration	ITT 17.2 and Appendix D of Section IV		
19.	Form FIN – 3.3.1: Financial Situation and Performance	ITT 17.2 and Appendix D of Section IV		
20.	Form FIN – 3.3.2: Average Annual Construction Turnover	ITT 17.2 and Appendix D of Section IV		
21.	Form FIN – 3.3.3: Financial Resources	ITT 17.2 and Appendix D of Section IV		
22.	Form FIN - 3.3.4: Bid Capacity	ITT 17.2 and Appendix D of Section IV		
23.	Form EXP – 3.4.1: General Construction Experience	ITT 17.2 and Appendix D of Section IV		
24.	Form EXP – 3.4.2(a): Specific Construction and Contract Management Experience	ITT 17.2 and Appendix D of Section IV		
25.	Form EXP – 3.4.2(b) (i): Specific Construction Experience in Key Activity (i)	ITT 17.2 and Appendix D of Section IV		
26.	Form EXP – 3.4.2(b) (ii): Specific Construction Experience in Key Activity(ii)	ITT 17.2 and Appendix D of Section IV		
27.	Form EXP – 3.4.2(b) (iii): Specific Construction Experience in Key Activity(iii)	ITT 17.2 and Appendix D of Section IV		
28.	Form TP-1: Site Organization	ITT 16.1 and Appendix A of Section IV		
29.	Form TP-2: Outline Method Statement	ITT 16.1 and Appendix A of Section IV		
30.	Form TP-3: Work Execution Programme	ITT 16.1 and Appendix A of Section IV		
31.	Form PER – 1: Proposed Personnel	ITT 16.1 and Appendix A of Section IV		

S. No.	Requirement of Tender Document	Ref. Clause of Tender documents	Tenderer's Name:	
			Whether information submitted (Yes/No/N.A.)	Ref. Pg No. in the Technical Submittal
32.	Form PER – 2: Resumé of Proposed Personnel	ITT 16.1 and Appendix A of Section IV		
33.	Form EQU: Equipment,	ITT 16.1 and Appendix A of Section IV		
34.	In case of Certificate/documents translated in English from Foreign Language, copy of license of licensed translator issued by the competent authority in their country of origin	ITT 10.1 of Section II		
<p>Note:</p> <p>(i) The check list is indicative and not exhaustive. The Tenderer must go through the complete tender documents and submit the required documents accordingly.</p> <p>(ii) If any of the above form or criteria is not applicable to the Tenderer, they can simply indicate N.A. against the relevant column.</p> <p>(iii) All Tender Forms contained in the Tender Documents must be fully and properly completed and all the forms must be returned signed by Authorized Representative of the Tenderer.</p>				

B. FINANCIAL PART

1. The Financial Part is provided in the Tender Documents in the form of :

- (i) MS-EXCEL file and
- (ii) PDF file.

The Contract Price for each Schedule of the Works shall be quoted in the MS-EXCEL file of Financial Part provided in the eProcurement portal. The Tenderer shall download the MS-EXCEL file and after quoting their Contract Price, upload the completed MS-EXCEL file. The quoted Contract Price shall not be offered/quoted elsewhere in the Technical Part submission/ Tender submission. These prices shall include all costs associated with the contract including GST. The Tenderer shall complete the Financial Part in accordance with the instructions given in the Financial Part.

2. Following information are required to be submitted by Tenderers in their Financial Part:

(a) In PDF File

1. Letter of Tender – Financial Part
2. Appendix A to Financial part: Schedule of Adjustment Data
 - Table A: Foreign Currency (FC)
 - Table B: Summary of Payment Currencies
3. Appendix B to Financial Part: Price Schedules
 - Contract Price comprises of Schedule 'A', Schedule 'B', Schedule 'C', Schedule 'D' and fixed Provisional Sum.

The Tenderer shall upload on eProcurement portal duly signed PDF documents of Financial Part mentioned in (a) above.

(b) In MS-Excel File

Price Schedule for quoting Price for the Works against each Schedule.

Schedule	Description	Remarks
A	Lump Sum component of Works	Quoted the total lump sum price for Schedule 'A'
BOQ Schedules (B, C and D)		
B	Bridges, Retaining Wall & other civil Works	
Sub-Schedule	Description	
B1	Bridge Works-Steel Super Structure -Open Web Girder (USSOR Based item)	Quoted single percentage (%) Excess (+) or Less (-) on the estimated amount for each Sub-Schedules 'B1' to 'B8' of Schedule 'B' in the prescribed place of Price Schedule in MS-Excel file of Financial Part.
B2	Reinforcement (USSOR Based items)	
B3	RCC Works (NS item)	
B4	Bridge Works-Pile foundation (NS items)	
B5	Bridge Works-Steel Super Structure- Composite Girder (USSOR Based item)	
B6	Backfill Material (USSOR Based item)	
B7	Bridge Works-Precast Concrete Blocks(NS item)	
B8	Cement (USSOR Based items)	
B9	Formation Works (USSOR Based & NS items)	
B10	Bridge Works-Steel Super Structure - Miscellaneous (USSOR Based items)	
B11	Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)	
B12	Road and Building Works (DSR Based & NS items)	
B13	Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)	
B14	P Way Works-Ballastless Track, Rails & Special Sleepers (NS items)	
C	General Electricals Services	Quoted single percentage (%) Excess (+) or Less (-) on the estimated amount 'C' in the prescribed place of Price

Schedule	Description	Remarks
		Schedule in MS-Excel file of Financial Part.
D	Signalling & Telecommunication (S&T) Works	Quoted single percentage (%) Excess (+) or Less (-) on the estimated amount 'D' in the prescribed place of Price Schedule in MS-Excel file of Financial Part.

3. I hereby confirm that:

- (i) I have checked the above list with our submittal. I am also aware that if our Tender is not containing the above documents, the Employer has the right to reject our Tender.
- (ii) All the pages of Tender submission are properly indexed and numbered.

Seal:

Date:

(Signature of Authorized representative of Tenderer)

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Letter of Tender – Technical Part

INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Tenderer must prepare this Letter of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.

Note: All italicized text is to help Tenderers in preparing this form.

Date of this Tender submission: *[insert date (as day, month and year) of Tender submission]*

Tender No.: HORC/HRIDC/C-6/2024

To:

Chief Project Manager/North
Haryana Rail Infrastructure Development Corporation Limited (HRIDC),
IRCON Tower-2, 3r Floor,
Plot No. 16, Sector-32,
Gurugram – 122003
Tel: +91 9079360542

We, the undersigned, hereby submit our Tender, in two parts sealed separately, namely: (a) the Technical Part; and (b) the Financial Part.

In submitting our Tender, we declare that:

- (a) **No Reservations:** We have examined and have no reservations to the Tender Document, including Addenda issued in accordance with ITT 8;
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITT 4;
- (c) **Tender-Securing Declaration:** We have not been suspended nor declared ineligible by the Employer based on execution of a Tender-Securing or Proposal-Securing Declaration in the Employer's Country in accordance with ITT 4.7;
- (d) **Conformity:** We offer to execute in conformity with the Tender Document and in accordance with the implementation and completion specified in the construction schedule, the following Works: *[insert a brief description of the Works]*;

_____;

- (e) **Tender Validity Period:** Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) after the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) **Performance Security** If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tender Document;
- (g) **One Tender Per Tenderer:** We are not participating, as a Tenderer, either individually or as a Joint Venture member, in more than one Tender in this tendering process, and meet the requirements of ITT 4.3;
- (h) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment or any ineligibility imposed or recognized by the Bank. Further, we are not ineligible under the Employer's Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (i) **State-Owned Enterprise or Institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITT 4.6];*
- (j) **Binding Contract:** We understand that this Tender, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (k) **Employer Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;
- (l) **Prohibited Practice:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Prohibited Practice; and
- (m) **Inspection and Audit:** We agree to permit the Bank or its representative to inspect our accounts and records and other documents relating to the tender submission and to have them audited by auditors appointed by the Bank.
- (n) We declare and certify that we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
- (o) We declare that the information and documents submitted along with the tender by us are correct and we are fully responsible for the correctness of the information and documents, submitted by us.
- (p) *[select the appropriate option and delete whichever is not applicable] [We declare and certify that financial data as per the balance sheets for last three financial years including that for the latest concluded financial year are being submitted] **OR** [We declare and*

certify that balance sheet for the latest concluded financial year has not been finalized till date and that is why we are furnishing financial data for last three financial years ignoring the latest concluded financial year.]

- (q) We undertake to provide the Key Equipment for execution of the work listed in Section III, Evaluation and Qualification Criteria in case the Contract is awarded to us.
- (r) We undertake to provide the Contractor's Representative and Key Personnel for execution of the work listed in Section III, Evaluation and Qualification Criteria in case the Contract is awarded to us.
- (s) I/we have downloaded the Tender Document/addenda/corrigenda/ clarifications along with the set of enclosures hosted on eProcurement portal as mentioned in Tender Document. I/We verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the Tender Document. In case of any discrepancy noticed at any stage i.e. evaluation of Tenders, execution of work or final payment of the Contract, the master copy of Tender Document available with HRIDC shall be final and binding upon me/us.

Name of the Tenderer: * [*insert complete name of the Tenderer*]

Name of the person duly authorized to sign the Tender on behalf of the Tenderer: **[*insert complete name of person duly authorized to sign the Tender*]

Title of the person signing the Tender: [*insert complete title of the person signing the Tender*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] **day of** [*insert month*], [*insert year*]

*: In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer

** : Person signing the Tender shall have the power of attorney given by the Tenderer. The power of attorney shall be attached with the Letter of Tender.

Appendix A to Technical Part: Technical Proposal

[Ref. ITT Sub-Clause 16.1, Clause 4 of Section III, Evaluation and Qualification Criteria (EQC)]

- 1. Site Organization**
- 2. Outline Method Statement**
- 3. Work Execution Programme**

Form TP-1:
Site Organization

(To be submitted by the Tenderer)

Form TP-2

Outline Method Statement

(To be submitted by the Tenderer)

Form TP-3

Work Execution Programme

(To be submitted by the Tenderer)

Appendix B to Technical Part: Equipment

Form EQU: Equipment

The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer.

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

Omit the following information for equipment owned by the Tenderer.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Email
Agreements	Details of rental / lease / manufacture agreements specific to the project	

“We undertake to provide the Key Equipment for execution of the work listed in Section III, Evaluation and Qualification Criteria in case the Contract is awarded to us.”

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Appendix C to Technical Part: Key Personnel Form PER-1

Tenderers should provide the names and details of the suitably qualified Contractor's Representative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	Title of position: Contractor's Representative/ Project Manager	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.	Title of position: Deputy Project Manager	
2.1	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.2	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.3	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

3.	Title of position: <i>Planning Engineer</i>	
	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.	Title of position: <i>Senior Quality Assurance /Quality Control Expert</i>	
4.1	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.1	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.2	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
4.3	Name of candidate:	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

“We undertake to provide the Contractor’s Representative and Key Personnel for execution of the work listed in Section III, Evaluation and Qualification Criteria in case the Contract is awarded to us.”

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Form PER-2: Resume and Declaration Contractor's Representative and Key Personnel

Name of Tenderer		
Position [#1]: [title of position from Form PER-1]		
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: <i>[language and levels of speaking, reading and writing skills]</i>	
Details	Address of employer:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present employer:

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
<i>[main project details]</i>	<i>[role and responsibilities on the project]</i>	<i>[time in role]</i>	<i>[describe the experience relevant to this position]</i>

Declaration

I, the undersigned *[insert either "Contractor's Representative" or "Key Personnel" as applicable]*, certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitment	Details
Commitment to duration of contract:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>
Time commitment:	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Tender evaluation;
- (b) result in my disqualification from participating in the Tender;
- (c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel: *[insert name]*

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Tenderer:

Signature: _____

Date: (day month year): _____

Appendix D to Technical Part: Tenderer's Qualification

To establish its qualifications to perform the contract in accordance with Section III, Evaluation and Qualification Criteria the Tenderer shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI-1.1 (a)**Tenderer Information Form (Single Entity)**

[Ref. ITT Sub-Clause 17.1]

Date: _____
 Tender No. and title: _____
 Page _____ of _____ pages

Tenderer's name
Tenderer's actual or intended country of registration: <i>[indicate country of Constitution]</i>
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information Name: _____ Address: _____ Mobile number: _____ Telephone/Fax numbers: _____ E-mail address: _____
Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITT 4.4 <input type="checkbox"/> In case of state-owned enterprise or institution, in accordance with ITT 4.6, documents establishing: <ul style="list-style-type: none"> • Operation on a commercial basis; • Financial and managerial autonomy; • Day-to-day management not controlled by the government; and • Not under the supervision of the Employer or its procuring agency.

Tenderer's Authorized Representative

Signature:
 Date:
 Company stamp:

Form ELI-1.1 (b)
Tenderer Information Form (JV)
 [Ref. ITT Sub-Clause 17.1]

Date: _____
 Tender No. and title: _____
 Page _____ of _____ pages

Tenderer's JV name
Name of each member of JV
Tenderer's actual or intended country of registration: <i>[indicate country of Constitution]</i>
Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
*Tenderer's authorized representative information Name: _____ Address: _____ Mobile number: _____ Telephone/Fax numbers: _____ E-mail address: _____
Attached are copies of original documents of <input type="checkbox"/> In case of intended JV, letter of intent to form JV or JV agreement, in accordance with ITT 4.1

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Note:

1. *Tenderer's Authorized Representative shall be from Lead Member of JV.

Form ELI-1.2

Tenderer's JV Member Information Form

[Ref. ITT Sub-Clause 17.1]

(To be completed for each member of Tenderer's JV)

Date: _____

TENDER No. and title: _____

Page _____ of _____ pages

Tenderer's JV name:
JV member's name:
JV member's country of registration:
JV member's year of constitution:
JV member's legal address in country of constitution:
JV member's authorized representative information Name: _____ Address: _____ Mobile: _____ Telephone/Fax numbers: _____ E-mail address: _____
1. Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITT 4.4. <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing operation on a commercial basis; financial and managerial autonomy; day-to-day management not controlled by the government; and not under the supervision of the Employer or its procuring agency, in accordance with ITT 4.6. 2. Included are the organizational chart, a list of Board of Directors in the Attachment 1 given below, and the beneficial ownership [If required under TDS ITT 48.1, the successful Tenderer shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.]

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Attachment 1 to Form ELI-1.2

1. Organizational chart,

(To be submitted by each JV member of the Tenderer)

2. List of Board of Directors,

(To be submitted by each JV member of the Tenderer)

Form ELI-1.3

Joint Venture Agreement

[Ref. ITT Sub-Clause 4.1 and ITT Sub-Clause 11.5]

The Members of the Joint Venture shall provide Joint Venture Agreement for Joint Venture Participation in the name of M/s.....of which includes at least the followings: -

- (i) M/s having its registered office at (hereinafter referred to as) acting as the Lead Member of the first part;
- And
- (ii) M/shaving its registered office at (hereinafter referred to as `.....`) in the capacity of a Joint Member of the other part;
- And
- (iii) M/shaving its registered office at (hereinafter referred to as `.....`) in the capacity of a Joint Member of the other part.

The expressions of (i) ,..... (ii) (iii) (names of JV Members) shall wherever the context admits, mean and include their respective legal representatives, successors-in-interest and assigns and shall collectively be referred to as “ the Parties” and individually as “ the Party”

WHEREAS:

Haryana Rail Infrastructure Development Corporation Ltd. on behalf of Haryana Orbital Rail Corporation Ltd.[hereinafter referred to as “Employer”] has invited tenders for “[Insert name of work]”

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. The following documents shall be deemed to form and be read and construed as an integral part of this JV agreement.
 - i) Specific Procurement Notice, ii) Tender document, iii) Any Addendum/ Corrigendum issued by Haryana Rail Infrastructure Development Corporation Ltd.
 - iv) The Tender submitted on our behalf jointly by the Lead Member/ authorised representative.
2. The `Parties` have studied the documents and have agreed to participate in submitting a tender jointly in the name of-----.
3. M/sshall be the lead Member of the JV for all intents and purpose and shall represent the Joint Venture in its dealing with the Employer. For the purpose of submission of tenders, the parties agree to nominate as the Lead Member duly authorized to sign and submit all documents and subsequent

clarifications, if any, to the Employer. However, M/s shall not submit any such tenders, clarifications or commitments before securing the written clearance of the other Member which shall be expeditiously given by M/s..... and M/s..... to M/s.....

4. The 'Parties' have resolved that the distribution of share and responsibilities between the JV Members is as under:-

- a) Lead Member Name.....and share% ;
- b) Joint Venture Member Name.....and share% ;
- c) Joint Venture Member Name.....and share% ;

5. JOINT AND SEVERAL RESPONSIBILITIES

The Parties undertake that they shall be jointly and severally liable to the Employer in the discharge of all the obligations and liabilities as per the contract with the Employer and for the performance of contract awarded to their JV.

6. ASSIGNMENT AND THIRD PARTIES

The parties shall co-operate throughout the entire period of this Joint Venture Agreement on the basis of exclusivity and neither of the Parties shall make arrangement or enter into agreement either directly or indirectly with any other party or group of parties on matters relating to the Project except with prior written consent of the other party and the Employer.

7. EXECUTIVE AUTHORITY

The said Joint Venture through its authorized representative shall receive instructions from the Employer. The management structure for the project shall be prepared by mutual consultations to enable completion of project to quality requirements within permitted cost and time.

8. PROPOSAL SUBMISSION

Each Party shall bear its own cost and expenses for preparation and submission of the tender and all costs until conclusion of a contract with the Employer for the Project. Common expenses shall be shared by all the parties in the ratio of their actual participation.

9. INDEMNITY

Each party hereby agrees to indemnify the other party against its respective parts in case of breach/default of the respective party of the contract works of any liabilities sustained by the Joint Venture.

10. For the execution of the respective portions of works, the parties shall make their own arrangements to bring the required finance, plants and equipment, materials, manpower and other resources.

11. DOCUMENTS & CONFIDENTIALITY

Each Party shall maintain in confidence and not use for any purpose related to the Project all commercial and technical information received or generated in the course of preparation and submission of the tender.

12. ARBITRATION

Any dispute, controversy or claim arising out of or relating to this Joint Venture agreement shall be settled in the first instance amicably between the parties. If an amicable settlement cannot be reached as above, it will be settled by JV in accordance with arbitral agreement mutually agreed by the parties. The venue of the arbitration shall be _____.

13. VALIDITY

This Joint Venture agreement shall remain in force till the occurrence of the earliest of any of the following, unless by mutual consent, the Parties agree in writing to extend the validity for a further period.

- a. The Tender submitted by the Joint Venture is declared unsuccessful, or
- b. Cancellation/ shelving of the Project by the Employer for any reasons prior to award of work
- c. Execution of detailed JV agreement by the parties, setting out detailed terms after award of work by the Employer.

14. This Joint Venture agreement is drawn in number of copies with equal legal strength and status. One copy is held by M/s and the other by M/s. and M/s. and a copy submitted with the tender.

15. This Joint Venture agreement shall be construed under the laws of India.

16. NOTICES BETWEEN JV MEMBERS

Notices shall be given in writing by fax confirmed by registered mail or commercial courier to the following fax numbers and addresses:

Lead Member.	Other Member	Other Member
.....
.....
(Name & Address)	(Name & Address)	(Name & Address)

IN WITNESS WHEREOF THE PARTIES, have executed this MOU the day, month and year first before written

M/s.....	M/s.....	M/s.....
.....
(Seal)	(Seal)	(Seal)

Witness

1.....(Name & Address)

2..... (Name & Address)

Form ELI-1.4

[Ref. ITT Sub-Clause 20.3]

Power of Attorney (POA) for Submitting Tender (For Single Entity/Sole Tenderer only)

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the Power of Attorney)

Know all men by these presents, we..... (name and address of the registered office) do hereby constitute, appoint and authorise Mr/Ms..... (name and residential address) who is presently employed with us and holding the position ofas our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our tender for the work of “**Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project.**” including signing and submission of all documents and providing information/ responses to Haryana Rail Infrastructure Development Corporation Ltd (HRIDC), representing us in all matters before HRIDC, and generally dealing with HRIDC in all matters in connection with our tender for the said project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

..... (Signature)

(Name, Title and address) of the **Person Accepting the POA.**

..... (Signature)

(Name, Title and address) of the **Person issuing the POA**

Notes:

- i. The tenderer should submit the notarised Power of Attorney. In case of Foreign Members, Power of Attorney(s) and Board Resolution confirming authority on the persons issuing the Power of Attorney for such actions shall be submitted duly notarized by the notary public of country of origin and should be either stamped by Indian Embassy/High Commission or Member Countries of Hague convention may submit these document with “Apostille” stamp. Also, in case the documents are in foreign language the translation of the same shall be authenticated by Embassy/High Commission.

-
- ii. The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.
 - iii. The tenderer should submit following additional document in support of the POA as case to case basis:
 - a) Proprietorship Affidavit in case of Proprietary Tenderer.
 - b) Partnership Deed in case of Partnership Firms.
 - c) Board Resolution in case of a Public/Private limited company/LLP.
 - d) Incorporation Certificate and Memorandum & Article of Association in case of a Public/Private limited company.
 - e) Incorporation Certificate and Limited Liability Membership Agreement in case of Limited Liability Membership firms.

Form ELI-1.5

Power of Attorney (POA) for Authorized Signatory of Joint Venture (JV) Members

[Ref. ITT Sub-Clause 20.4]

(To be submitted by Tenderer’ each JV member)

POWER OF ATTORNEY*

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the Power of Attorney)

Know all men by these presents, we..... do hereby constitute, appoint and authorise Mr/Ms. who is presently employed with us and holding the position ofas our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our tender for the work of **“Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project.”** including signing and submission of all documents, withdrawal, substitution and modification of tender and providing information/ responses to Haryana Rail Infrastructure Development Corporation Ltd, representing us in all matters, dealing with Haryana Rail Infrastructure Development Corporation Ltd. in all matters in connection with our tender for the said project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

Dated this the day of 20..

(Signature of authorised Signatory in token of **Acceptance of POA**

.....

(Signature and Name in Block letters of Signatory)

Seal of Company

Witness

Witness 1:

Name:

Address:

Occupation:

Witness 2:

Name:

Address:

Occupation:

**Notes:*

- i) To be executed by all the Members individually, in case of a Joint Venture.
- ii) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.

Form ELI-1.6

Power of Attorney to Lead Member and Authorized Representative of Joint Venture (JV)

[Ref. ITT Sub-Clause 20.4]

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the Power of Attorney)

POWER OF ATTORNEY¹

Whereas Haryana Rail Infrastructure Development Corporation Ltd. has invited Tenders for the work of

on behalf of Haryana Orbital Rail Corridor Limited [hereinafter referred to as “Employer”]

Whereas, the Members of the Joint Venture comprising

1. M/s.,

2. M/s.,

and

3. M/s.,

are interested in submission of tender for the work of “**Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project.**” in accordance with the terms and conditions contained in the tender documents.

Whereas, it is necessary for the Members of the Joint Venture to designate one of them as the Lead Member as the authorized representative, with all necessary power and authority to do, for and on behalf of the Joint Venture, all acts, deeds and things as may be necessary in connection with the Joint Venture’s tender for the project.

NOW THIS POWER OF ATTORNEY WITNESSETH THAT:

We, M/s. (Lead Member), M/s _____ and M/s _____ hereby designate M/s., being one of the Members of the Joint Venture, as the Lead Member of the Joint Venture and designate Mr/Ms. _____ being authorized representative of the Joint Venture, to do on behalf of the Joint Venture, all or any of the acts, deeds or things necessary or incidental to the Joint Venture’s tender for the contract, including

submission of tender, withdrawal, substitution and modification of tender, participating in conferences, responding to queries, submission of information/ documents and generally to represent the Joint Venture in all its dealings with the Employer or any other Government Agency or any person, in connection with the contract for the said work until culmination of the process of tendering till the contract agreement is entered into with the Haryana Orbital Rail Corporation Limited and thereafter till the expiry of the contract agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by Lead Member, our said attorney, pursuant to this power of attorney and that all acts deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us/ Joint Venture.

Dated this the Day of 20.....

(Signature) (Signature) (Signature)
.....

(Name in Block letters of all Executants with Seal of Company)

..... (Signature)

(Name, Title and address) of the **Person Accepting the POA**

Witness 1: Witness 2:
Name: Name:
Address: Address:
Occupation: Occupation:

Notes:

- 1. To be executed by all the Authorized POA holders of each Members of the JV.
- 2. The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.
- 3. Authorized Representative of Tenderer’s JV shall be from Lead Member of JV.

Form CON-1

Historical Contract Non-Performance, Pending Litigation and Litigation History

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.2.1 and Sub-Clause 3.2.3]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

1. Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria			
Description			YES/NO
(i) Whether Contract(s) Non-Performance occurred as a result of Contractor's default since 1st April 2019 specified in Section III, Evaluation and Qualification Criteria, requirement 3.2.1			
(ii) If answer to (i) above is YES, then following details to be submitted:			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and INR equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i>	<i>[insert amount]</i>

		Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	
--	--	--	--

2. Pending Litigation resulting from contracts completed or in ongoing contracts since 1st April 2019, in accordance with Section III, Evaluation and Qualification Criteria				
Description				
(i) Whether any litigation is still pending against the Contractor since 1st April 2019 in accordance with Section III, Evaluation and Qualification Criteria, Sub-Clause 3.2.3.				
(ii) If answer to (i) above is YES, then following details to be submitted:				
S. No.	Year of dispute	Amount in dispute against Tenderer (INR Equivalent)	Contract Identification	Total Contract Amount (currency), INR Equivalent (exchange rate)
			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Status of dispute: _____	
			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Status of dispute: _____	
Total Amount in dispute against Tenderer under pending litigation (INR Equivalent), (A)				

3. Pending Arbitration resulting from contracts completed or in ongoing contracts since 1st April 2019, in accordance with Section III, Evaluation and Qualification Criteria				
Description				YES/NO
(i) Whether any arbitration is still pending against the Contractor since 1st April 2019 in accordance with Section III, Evaluation and Qualification Criteria, Sub-Clause 3.2.3.				
(ii) If answer to (i) above is YES, then following details to be submitted:				
S. No.	Year of dispute	Amount in dispute against Tenderer (INR Equivalent)	Contract Identification	Total Contract Amount (currency), INR Equivalent (exchange rate)
			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Status of dispute: _____	
			Contract Identification: Name of Employer: Address of Employer: Matter in dispute: Status of dispute:	
Total Amount in dispute against Tenderer in Arbitration (INR Equivalent), (B)				
Total Amount in dispute against Tenderer under pending litigation and Arbitration (INR Equivalent), C= (A) + (B)				

4. Litigation History in accordance with Section III, Evaluation and Qualification Criteria				
Description				YES/NO
(i) Whether any Litigation History against the Tenderer since 1 st April 2019 in accordance with Section III, Evaluation and Qualification Criteria, Sub-Clause 3.2.4.				
(ii) If answer to (i) above is YES, Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Clause 3.2.4 is indicated below.				
S. No.	Year of award	Amount in dispute	Contract Identification	Total Contract Amount (currency),

		awarded against Tenderer (INR Equivalent)		INR Equivalent (exchange rate)
			Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Employer" or "Contractor"]</i> Reason(s) for Litigation and award decision <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
			Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Employer" or "Contractor"]</i> Reason(s) for Litigation and award decision <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>

Tenderer’s Authorized Representative

Signature:

Date:

Company stamp:

Chartered Accountant/Company Auditor/Statutory Auditor

Certified that the information furnished above is correct as per the audited balance sheets of the entity.

Signature:

Name:

Position:

Date:

Note: The Tenderer shall provide accurate information in Form CON-1 about any pending litigation and pending arbitration resulting from contracts completed or in ongoing contracts over the last five years since 1st April 2019 till 28 days prior to deadline of Tender submission

Form CON-2

Environmental, Social, Health, and Safety Performance Declaration

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.2.5]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

Environmental, Social, Health, and Safety Performance Declaration over the last five years since 1st April 2019 in accordance with Sub-Clause 3.2.5, Section III, Qualification Criteria and Requirements			
Description			YES/NO
(i) Declaration of suspension or termination of contract:			
Whether contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, Social, Health, or Safety (ESHS) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Clause 3.2.5.			
(ii) If answer to (i) above is YES, then following details to be submitted:			
a. Details of Contract(s) suspended/terminated by an employer(s) for reasons related to ESHS performance			
Year	Suspended or terminated portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and INR equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>

<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for suspension or termination: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
...	...	<i>[list all applicable contracts]</i>	...
b. Details of Contract(s) in which Performance Security called by an employer(s) for reasons related to ESHS performance			
Year	Contract Identification		Total Contract Amount (current value, currency, exchange rate and INR equivalent)
<i>[insert year]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for calling of performance security: <i>[indicate main reason(s)]</i>		<i>[insert amount]</i>

Tenderer’s Authorized Representative

Signature:

Date:

Company stamp:

Form FIN-3.3.1:**Financial Situation and Performance**

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.3.1 (ii)]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

Financial data

(All amounts in Millions)

Type of Financial information in (currency)	Historic information for last three Financial Years, (amount in currency, currency, exchange rate*, INR equivalent)		
	Year 2:2021-22	Year 3:2022-23	Year 3:2023-24
	Statement of Financial Position (Information from Balance Sheet)		
Total Assets (TA)			
Total Liabilities (TL)			
Total Equity/Net Worth (NW) = TA-TL			
Current Assets (CA)			
Current Liabilities (CL)			
Working Capital (WC)			
Total Revenue (TR)			
Profits Before Taxes (PBT)			

*Refer to Notes: Exchange Rate for Qualification Criteria, Section III, EQC.

Notes:

- (i) *In case, the Financial Year is the same as the Calendar Year, the financial data for the year 2021,2022 and 2023 shall be furnished.*

- (ii) *The Tenderer is not required to submit any document as documentary evidence along with the Tender Documents. All information furnished in this Form shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor.*
- (iii) *The Form duly certified by a Chartered Accountant/Company Auditor/Statutory Auditor shall also be signed by Tenderer’s Authorized representative.*
- (iv) *The above documents shall reflect the financial situation of the legal entity or entities comprising the Tenderer and not the Tenderer’s parent companies, subsidiaries, or affiliates.*
- (v) *In the event that the audited accounts for the latest concluded Financial Year are not available, the Tenderer shall furnish information pertaining to the last three financial years after ignoring the latest concluded financial year. In case, the Tenderer submits audited financial information for the last four or more years, only the figures for the latest three years shall be considered for evaluation.*
- (vi) *In case audited balance sheet of the last financial year is not available with the tenderer, he will declare the same vide item (p) prescribed in the Letter of Tender-Technical Part.*
- (vii) ***If the value of Net Worth is not submitted for any of the last three years, the Tender shall be considered nonresponsive and shall be summarily rejected.***

Tenderer’s Authorized Representative

Signature:

Date:

Company stamp:

Chartered Accountant/Company Auditor/Statutory Auditor

Certified that the information furnished above is correct as per the audited balance sheets of the entity.

Signature:

Name:

Position:

Date:

Company:

Company stamp:

Membership No:

Address:

Contact No:

Email ID:

Form FIN-3.3.2:**Average Annual Construction Turnover**

[Ref. ITT Sub-Clause 17.2, Section III, Evaluation and Qualification Criteria, Sub-Clause 3.3.2 and Sub-Clause 3.3.3]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

(All amounts in Millions)

Annual Turnover Data for the Last Three (03) Financial Years (Construction Only)			
Year	Amount Currency	*Exchange Rate	INR Equivalent
2021-22	<i>[insert amount and indicate currency]</i>		
2022-23			
2023-24			

* See Section III, Evaluation and Qualification Criteria, Sub-Clause 3.3.2.

Notes:

- (i) *In case, the Financial Year is the same as the Calendar Year, the turnover for the year 2021, 2022 and 2023 shall be furnished.*
- (ii) *The Average Annual Construction Turnover shall be calculated by adding the turnover amount of last three financial years divided by three.*
- (iii) *The Tenderer is not required to submit any document as documentary evidence along with the Tender Documents. All information furnished in this Form shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor.*
- (iv) *The Form duly certified by a Chartered Accountant/Company Auditor/Statutory Auditor shall also be signed by Tenderer's Authorized representative.*
- (v) *The above documents shall reflect the financial situation of the legal entity or entities comprising the Tenderer and not the Tenderer's parent companies, subsidiaries, or affiliates.*
- (vi) *In the event that the audited accounts for the latest concluded Financial Year are not available, the Tenderer shall furnish information pertaining to the last three financial years after ignoring the latest concluded financial year. In case, the Tenderer submits audited financial information for the last four or more years, only the figures for the latest three years shall be considered for evaluation.*

- (vii) In case audited balance sheet of the last financial year is not available with the tenderer, he will declare the same vide item (p) prescribed in the Letter of Tender-Technical Part..*
- (viii) If the value of Annual construction Turnover is not submitted for any of the last three years prescribed in Financial Data, the Tender shall be evaluated by considering “NIL” Turnover for that year(s).*

Tenderer’s Authorized Representative

Signature:

Date:

Company stamp:

Chartered Accountant/Company Auditor/Statutory Auditor

Certified that the information furnished above is correct as per the audited balance sheets of the entity.

Signature:

Name:

Position:

Date:

Company:

Company stamp:

Membership No:

Address:

Contact No:

Email ID:

Form FIN-3.3.3:**Sources of Finance for the Subject Contract**

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.3.1 (i)]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____
Page _____ of _____ pages

Tenderer should specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current contract commitments, available to meet the total construction cash flow demands of the subject contract **i.e. Package C-6.**

(All amounts in Millions)

Financial Resources for Contract Package C-6		
No.	Source of financing	Amount (INR equivalent)
1		
2		
3		
Total Sources of Finance for the subject Contract C-6		

- (i) *The Tenderer is not required to submit any document as documentary evidence along with the Tender Documents. All information furnished in this Form shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor.*
- (ii) *The Form duly certified by a Chartered Accountant/Company Auditor/Statutory Auditor shall also be signed by Tenderer's Authorized representative.*
- (iii) *The above documents shall reflect the financial situation of the legal entity or entities comprising the Tenderer and not the Tenderer's parent companies, subsidiaries, or affiliates.*

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Chartered Accountant/Company Auditor/Statutory Auditor

Certified that the information furnished above is correct.

Signature:

Name:

Position:

Date:

Company:

Company stamp:

Membership No:

Address:

Contact No:

Email ID:

Form FIN-3.3.4:

Bid Capacity

[Ref. ITT Sub-Clause 17.2, Section III, Evaluation and Qualification Criteria, Sub-Clause 3.3.3]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

1.0 Bid Capacity:

The available bid capacity shall be calculated as under:

$$\text{Available Bid Capacity} = [A \times N \times 2] - 0.33 \times N \times B$$

Where,

A = Maximum value of construction works executed and payment received in any one of the previous three financial years, taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of work for which Tender has been invited (i.e., 3 years).

B = Existing commitments and balance amount of ongoing works with tenderer and also the works which are awarded to tenderer but yet not started upto the date of inviting the Tender.

Notes:

(a) The Tenderer(s) shall furnish the details of :

- (i) Maximum value of construction works executed and payment received in any one of the previous three financial years for calculating 'A', and
- (ii) Existing commitments and balance amount of ongoing works with tenderer and also the works which are awarded to tenderer but yet not started upto the date of inviting the Tender for calculating 'B'. The details shall be submitted in the prescribed proforma given under **2.0 below**. In case of no works in hand, a 'NIL' statement should be furnished.

The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.

(b) In case if a tenderer is JV, the Tenderer(s) must furnish the details of:

- (i) Maximum value of construction works executed and payment received in any one of the previous three financial years by each member of JV for calculating 'A', and

- (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started upto the date of inviting the Tender for calculating 'B'. The details shall be submitted by each member of JV in the prescribed proforma given under **2.0 below**. In case of no works in hand, a 'NIL' statement should be furnished.

The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.

- (c) Value of a completed work/work in progress/work awarded but yet not started for a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned Bid Capacity in the Tender under consideration.
- (d) For assessing the combined Bid capacity of JV, the arithmetic sum of individual "Bid Capacity" of all the members shall be taken.
- (e) In case, the Tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected summarily.
- (f) **The Available Bid Capacity of Tenderer shall be assessed based on the details submitted by the Tenderer.** In case, the available bid capacity is less than that prescribed in Sub-Clause 3.3.3, Section III, EQC, then the offer shall not be considered even if the Tenderer has been found eligible in other eligibility criteria/tender requirement.

2.0 Tenderer should provide information on their current commitments on all contract that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate is yet to be issued.

Current Contract Commitments /Works in Progress

(All amounts in INR)

S. No.	Name and Brief particulars of contract (Clearly indicate the part of the work)	Contract No. & Date	Name of client with telephone number	Contract Value in INR Equivalent (Give only the value of work assigned to the applicant)	Stipulated Period of completion	Value of balance work yet to be done in INR equivalent upto the date of inviting the Tender
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Total value of balance work yet to be done in INR equivalent upto the date of inviting the Tender						B=

Notes:

- (i) Where a work is undertaken by a JV, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the JV be excluded.
- (ii) The Tenderer is not required to submit any document as documentary evidence along with the Tender Documents. **All information furnished in this Form shall be certified by a Chartered Accountant/Company Auditor/Statutory Auditor.**
- (iii) The above documents shall reflect the financial situation of the legal entity or entities comprising the Tenderer and not the Tenderer's parent companies, subsidiaries, or affiliates.

"Certified that current commitments on all the contracts that have been awarded or for which a letter of intent or acceptance has been received or for the works in progress or the works approaching completion, value of outstanding work has been indicated in the above table correctly. It is further certified that if later on the Employer discovers that information provided in the table is incorrect then the Employer will treat our Tender invalid and it will be liable for rejection"

3.0 Calculation of Available Bid Capacity

Description	Value
A= Maximum value of construction works executed and payment received in any one of the previous three financial years, taking into account the completed as well as works in progress as per Form FIN 3.3.2 (in INR Equivalent)	

Description	Value
N= Number of years prescribed for completion of work for which Tender has been invited (in years)	3
B= Existing commitments and balance amount of ongoing works with tenderer and also the works which are awarded to tenderer but yet not started upto the date of inviting the Tender (in INR Equivalent)	
Bid Capacity (in INR Equivalent) = $[A \times N \times 2] - 0.33 \times N \times B$	

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Chartered Accountant/Company Auditor/Statutory Auditor

Certified that the information furnished above is correct.

Signature:

Name:

Position:

Date:

Company:

Company stamp:

Membership No:

Address:

Contact No:

Email ID:

Form EXP-3.4.1**General Construction Experience**

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.4.1]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

Details of Works executed under construction contracts in the role of Prime Contractor or a JV member or Management Contractor or a sub-contractor, between 1st April 2017 till 28 days prior to deadline of Tender submission.

S. No.	Starting Year	Ending Year	Contract Identification	Role of Tenderer [insert "Prime Contractor (Single Entity or JV Member)" or Management Contractor or "Subcontractor"]
			Contract name: _____ Brief Description of the Works performed by the Tenderer: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
			Contract name: _____ Brief Description of the Works performed by the Tenderer: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	

			Contract name: _____ Brief Description of the Works performed by the Tenderer: _____ Amount of contract: _____ Name of Employer: _____ Address: _____	
--	--	--	--	--

Tenderer’s Authorized Representative

Signature:

Date:

Company stamp:

Form EXP-3.4.2(a)

Specific Construction and Contract Management Experience

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.4.2 (a)]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

Similar Contract No.	Information		
Contract Identification			
Award date			
Completion date			
Role in Contract as Prime Contractor or Member in JV or <i>Management Contractor</i> or Sub-Contractor	<i>[insert the role in Contract]</i>		
Total Contract Amount	<i>[insert Contract amount(s) and currency(ies)]</i>		INR <i>[insert * Exchange rate prevailing on the date of the Contract Award i.e. the date of issue of Letter of Acceptance and total Contract amount in INR equivalent]</i>
If member in a JV or sub-contractor, specify participation in total Contract amount	<i>[insert Percentage participation]</i>	<i>[insert amount(s) and currency) of participation]</i>	INR <i>[insert Exchange rate prevailing on the date of the Contract Award i.e. the date of issue of Letter of Acceptance and amount of participation in INR equivalent]</i>
Employer's Name:			
Address:			
Mobile:			
Telephone/fax number			

E-mail:	
Description of the similarity in accordance with Sub-Clause 3.4.2(a) of Section III:	
1. Amount in (INR)	
2. Works involving: (i) Viaduct/Bridges and (ii) Earthwork in formation	
3. Type of Project: Railway/Metro Rail/ Regional Rapid Transit System (RRTS)/High Speed Rail/DFCC/Road project	

**Refer to Notes: Exchange Rate for Qualification Criteria, Section III, EQC.*

Tenderer's Authorized Representative

Signature:

Date:

Company stamp:

Company stamp:

Notes:

- (i) Value of completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for purpose of satisfying his/her experience criteria mentioned in 3.4.2(a).*
- (ii) The Tenderer shall submit copy of certificates issued by the Employer (Owner of the Work) / Concessionaire as documentary proof clearly indicating the similarity of the work as per Sub-Clause 3.4.2 (a), actual completion cost, actual completion date. Tenders submitted without this documentary proof shall be liable to be rejected .*
- (iii) In case Tenderer submits work experience certificate issued by other than Govt. / Public Sector undertakings, the Tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.*
- (iv) If a tenderer has successfully completed a work as subcontractor, the work experience certificate issued for such work to subcontractor by the Employer (Owner of the Work) / Concessionaire shall only be considered for the purpose of fulfillment of credentials.*

Form EXP-3.4.2(b) (i)**Specific Construction Experience in Key Activity in Completed/Ongoing contracts**

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.4.2 (b) (i)]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

1. Key Activity: Construction of **minimum 2.00 km** cumulative length of viaducts / Bridges in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC/Road project

	Information	
Contract Identification		
Award date		
Completion date / ongoing contracts		
Role in Contract as Prime Contractor or Member in JV or Management Contractor or Sub-Contractor	[insert the role in Contract]	
Total Contract Amount	[insert Contract amount(s) and currency(ies)]	INR [insert * Exchange rate prevailing on the date of the Contract Award i.e. the date of issue of Letter of Acceptance and total Contract amount in INR equivalent]
Employer's Name:		
Address: Telephone/fax number E-mail:		

	Information
Description of the key activity in accordance with Sub-Clause 3.4.2 (b) (i) of Section III:	
Cumulative length of viaducts / Bridges (km) in infrastructure work Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project (A)	
In case the qualifying contract has been executed as JV/Consortium member:	
a) Specify the percentage share of the participating Tenderer / JV member in the qualifying contract, (B)	
b) Actual Cumulative length of viaducts/Bridges (km) in infrastructure work Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project, (C) = (A) x (B)	

Notes:

- (i) *Evaluation of length of spans for multitrack/ multilanes bridges shall be done as under:*
- (a) *In case of Railway bridges/Metro viaduct, accommodating multiple tracks, the length of span for each track shall be taken into consideration. In case of Road bridges accommodating multilanes, the credit for length of one span shall be given for every two lanes.*
 - (b) *The credit for multiple tracks/multilanes (exceeding two lanes) shall be given only if the number of tracks or number of lanes is specifically mentioned in the certificate of the Employer.*
 - (c) *For evaluation purpose, length of bridge will be measured from abutment to abutment of the bridge or the length of bridge certified in the Employer (Owner of the Work) / Concessionaire Certificate.*
- (ii) *For past experience of a firm in earlier JV for specified key activity in Sub-Clause 3.4.2 (b) credit shall be given for execution of that quantity of the specified key activity executed by the firm as per the Note 3 under Sub-Clause 3.4.2 (b).*
- (iii) *The Tenderer shall submit copy of certificates issued by the Employer (Owner of the Work)/ Concessionaire as documentary proof clearly indicating the description of the key activity as per Sub-Clause 3.4.2 (b), actual completed quantity and actual*

completion date. Tender submitted without this documentary proof shall be liable to be rejected .

- (iv) In case Tenderer submits work experience certificate issued by other than Govt. / Public Sector undertakings, the Tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.*
- (v) If a tenderer has successfully completed a work as Sub-Contractor, the work experience certificate issued for such work to Sub-Contractor by the Employer (Owner of the Work)/ Concessionaire shall only be considered for the purpose of fulfillment of credentials. Tender submitted without this documentary proof shall be summarily rejected.*

Form EXP-3.4.2(b) (ii)**Specific Construction Experience in Key Activity in Completed/Ongoing contracts**

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.4.2 (b) (ii)]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

1. Key Activity: Execution of minimum equivalent length of **10,000 RM Pile foundation (of minimum dia 1000 mm)/Well foundation** in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project

	Information	
Contract Identification		
Award date		
Completion date / ongoing contracts		
Role in Contract as Prime Contractor or Member in JV or Management Contractor or Sub-Contractor	[insert the role in Contract]	
Total Contract Amount	[insert Contract amount(s) and currency(ies)]	INR [insert * Exchange rate prevailing on the date of the Contract Award i.e. the date of issue of Letter of Acceptance and total Contract amount in INR equivalent]
Employer's Name:		
Address: Telephone/fax number E-mail:		

	Information
Description of the key activity in accordance with Sub-Clause 3.4.2 (b) (ii) of Section III:	
Executed length Pile foundation (RM) of minimum dia 1000 mm in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project, (A)	
Executed length Well foundation (RM) of minimum dia. 1000 mm in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project, (B)	
In case of Well Foundation, equivalent Pile foundation Length executed, $C = 6 \times (B)$	
Total Equivalent length of Pile/Well Foundation executed, (D) = (A)+(C)	
In case the qualifying contract has been executed as JV/Consortium member:	
a) Specify the percentage share of the participating Tenderer / JV member in the qualifying contract, (E)	
b) Actual executed length Pile /well foundation (RM) of minimum dia 1000 mm in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project, (F) = (D) x (E)	

Notes:

- (i) *For past experience of a firm in earlier JV for specified key activity in Sub-Clause 3.4.2 (b) credit shall be given for execution of that quantity of the specified key activity executed by the firm as per the Note 3 under Sub-Clause 3.4.2 (b).*
- (ii) *Calculation of equivalent length (RM) of Pile/Well foundation:*

In case of Well foundation, depth of 1 RM Well foundation shall be considered equivalent to construction of 6 RM depth of Pile foundation (i.e., 1 RM Well foundation= 6 RM Pile foundation).

- (iii) The Tenderer shall submit copy of certificates issued by the Employer (Owner of the Work) / Concessionaire as documentary proof clearly indicating the description of the key activity as per Sub-Clause 3.4.2 (b), actual completed quantity and actual completion date. Tender submitted without this documentary proof shall be liable to be rejected .*
- (iv) In case Tenderer submits work experience certificate issued by other than Govt. / Public Sector undertakings, the Tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.*
- (v) If a tenderer has successfully completed a work as Sub-Contractor, the work experience certificate issued for such work to Sub-Contractor by the Employer (Owner of the Work) / Concessionaire shall only be considered for the purpose of fulfillment of credentials. Tender submitted without this documentary proof shall be summarily rejected.*

Form EXP-3.4.2(b) (iii)**Specific Construction Experience in Key Activity in Completed/Ongoing contracts**

[Ref. ITT Sub-Clause 17.2 and Section III, Evaluation and Qualification Criteria, Sub-Clause 3.4.2 (b) (iii)]

[The following table shall be filled in for the Tenderer or in case of JV, each member of a Joint Venture]

Tender No.: HORC/HRIDC/C-6/2024

Tenderer's Name: _____

JV Member's Name _____

Page _____ of _____ pages

1. Key Activity: Execution of Earthwork in formation for **2.0 million cum** in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project

	Information	
Contract Identification		
Award date		
Completion date / ongoing contracts		
Role in Contract as Prime Contractor or Member in JV or Management Contractor or Sub-Contractor	[insert the role in Contract]	
Total Contract Amount	[insert Contract amount(s) and currency(ies)]	INR [insert * Exchange rate prevailing on the date of the Contract Award i.e. the date of issue of Letter of Acceptance and total Contract amount in INR equivalent]
Employer's Name:		
Address: Telephone/fax number E-mail:		

	Information
Description of the key activity in accordance with Sub-Clause 3.4.2 (b) (iii) of Section III:	
Executed quantities of Earthwork in formation in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project, (A)	
In case the qualifying contract has been executed as JV/Consortium member:	
a) Specify the percentage share of the participating Tenderer / JV member in the qualifying contract, (B)	
b) Actual executed quantities of Earthwork in formation in one contract of infrastructure project in Railway / Metro Rail / RRTS / High Speed Rail / DFCC / Road project, (C) = (A) x (B)	

Notes:

- (i) *Earthwork in formation/cutting, Blanketing, GSB/WMM in Railway/Road projects will be considered as part of Earthwork.*
- (ii) *For past experience of a firm in earlier JV for specified key activity in Sub-Clause 3.4.2 (b) credit shall be given for execution of that quantity of the specified key activity executed by the firm as per the Note 3 under Sub-Clause 3.4.2 (b).*
- (iii) *The Tenderer shall submit copy of certificates issued by the Employer (Owner of the Work) / Concessionaire as documentary proof clearly indicating the description of the key activity as per Sub-Clause 3.4.2 (b), actual completed quantity and actual completion date. Tender submitted without this documentary proof shall be liable to be rejected.*
- (iv) *In case Tenderer submits work experience certificate issued by other than Govt. / Public Sector undertakings, the Tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.*
- (v) *If a tenderer has successfully completed a work as Sub-Contractor, the work experience certificate issued for such work to Sub-Contractor by the Employer (Owner of the Work) / Concessionaire shall only be considered for the purpose of*

fulfillment of credentials. Tender submitted without this documentary proof shall be summarily rejected.

Appendix E to Technical Part: Tender Security

The amount for Tender Security in INR or the equivalent amount in a freely convertible currency will only be paid online by eligible Tenderers on eProcurement Portal of Government of Haryana.

OR

Tender Security can be submitted in the form of unconditional and irrevocable Bank Guarantee¹ in INR or the equivalent amount in a freely convertible currency from the banks specified in Sub-Clause ITT 19.3, Section II- TDS using the Tender Security Form given below:

***Note:** The rates of exchange for computing INR equivalent shall be the reference rate prevailing twenty-eight (28) days prior to the deadline of Tender submission. Exchange rates shall be taken from the sources specified in Note No.1(iii) given under Sub-Clause 3.4 , Section III, EQC*

¹ Refer Sub-Clause ITT 21.4 H and Sub-Clause 19.3, Section II, TDS for submission of the Tender Security in the form of BG. Option of Exemption from payment of EMD mentioned in the module of eProcurement portal is only for exemption of online payment of Tender Security to the Tenderers who wish to submit Tender Security in the form of Bank Guarantee.

Tender Security Form of Demand Guarantee

Beneficiary:

Haryana Rail Infrastructure Development Corporation Limited,
IRCON Tower-2, 3r Floor, Plot No. 16,
Sector-32, Gurugram, Haryana-122003

Tender No: HORC/HRIDC/C-6/2024**Date:** _____ *[Insert date of issue]***TENDER SECURITY GUARANTEE No.:** _____**Guarantor:** *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Tender (hereinafter called "the Tender") for the execution of **“Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project.”**

Furthermore, we understand that, according to the Beneficiary’s conditions, Tenders must be supported by a Tender guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary’s complying demand, supported by the Beneficiary’s statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Tender during the period of Tender validity set forth in the Applicant’s Letter of Tender (“the Tender Validity Period”), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension thereto provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance Security in accordance with the Instructions to Tenderers (“ITT”) of the Beneficiary’s Tender Document.

This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security issued to the Beneficiary in relation to such contract agreement; or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) twenty-eight days after the end of the Tender Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

[signature(s)]

Form of Tender-Securing Declaration

DELETED

Letter of Tender – Financial Part

INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Tenderer must prepare this Letter of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address.

Note: All italicized text is to help Tenderers in preparing this form.

Date of this Tender submission: *[insert date (as day, month and year) of Tender submission]*

Tender No.: HORC/HRIDC/C-6/2024

To:

Chief Project Manager/ North,
Haryana Rail Infrastructure Development Corporation Limited (HRIDC),
IRCON Tower-2, 3r Floor,
Plot No. 16, Sector-32,
Gurugram – 122003
Tel: +91 9079360542

We, the undersigned, hereby submit the second part of our Tender, the Tender Price and Price Schedule. This accompanies the Letter of Tender – Technical Part.

In submitting our Tender, we declare that:

- (a) **Tender Validity Period:** Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) after the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (b) **Tender Price:** The total price of our Tender including Provisional Sum is *[insert the total price of the Tender in words and figures in INR]*;

Notes: (i) *The total price of the Tender quoted above shall be the same as shown in Worksheet BOQ5 (Price Schedule –Summary Sheet), MS Excel sheet uploaded on eProcurement portal.*

(ii) *The total price of Tender in Worksheet BOQ5 (Price Schedule –Summary Sheet) of MS-Excel File includes cost of Schedule 'A' plus Schedule 'B' plus Schedule 'C' plus Schedule 'D' plus Provisional Sum. Correction of*

Arithmetical Errors, if any, observed in MS-Excel sheets uploaded on eProcurement portal shall be carried out in accordance with ITT 36.

- (c) **Commissions, Gratuities, Fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Tendering process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate “none.”)

Name of the Tenderer: *[insert complete name of the Tenderer]*

Name of the person duly authorized to sign the Tender on behalf of the Tenderer: **[insert complete name of person duly authorized to sign the Tender]*

Title of the person signing the Tender: *[insert complete title of the person signing the Tender]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*Person signing the Tender shall have the power of attorney given by the Tenderer. The power of attorney shall be attached with the Letter of Tender.

** The total price of Tender in Worksheet BOQ5 (Price Schedule –Summary Sheet) of MS-Excel File includes cost of Schedule ‘A’ plus Schedule ‘B’ plus Schedule ‘C’ plus Schedule ‘D’ plus Provisional Sum. Correction of Arithmetical Errors, if any, observed in MS-Excel sheets uploaded on eProcurement portal shall be carried out in accordance with ITT 36.

Appendix A to Financial Part: Schedule of Adjustment Data

1. Price adjustment

- 1.1 The amounts payable to the Contractor for Works shall be adjusted in accordance with the provisions of this Clause 1.0, Sub-Clause 13.7 of GCC and Sub-Clause 13.7, Specific Provision, Part B, Section IX-PCC.
- 1.2 The Contract Price shall be adjusted for increase or decrease in rates and prices of labour, materials, fuel and lubricants, equipment, Machinery, Plant and other Materials or inputs in accordance with the principles, procedures and formulae specified below:
- a) Base month for the purpose of Price Adjustment shall be the month in which the Tender is opened for Civil Works and General Electrical Services Works. The 1st Quarter will start from Base month;
 - b) For Schedule-‘A’, Price adjustment shall be applied on completion of the specified stage of the respective item of work.
 - c) Adjustment for each item of work/stage shall be made separately;
 - d) The following expressions and meanings are assigned to the value of the work done for Civil works:

EW = Value of work done for the completion of a stage under the Cost Centre ‘CE’ of Price Schedule ‘A’ ;

BR = Value of work done for the completion of a stage under the Cost Centre ‘CB’ of Price Schedule ‘A’;

STN = Value of work done for the completion of a stage under Cost Centre CS of Price Schedule ‘A’;

CW = Value of work done under Price Schedule ‘B’;

The following expressions and meanings are assigned to the Cost Centre of Price Schedule ‘A’:

Cost Centre	Description of Cost Centre
1	2
CE	Earthwork and blanketing
CB	Bridges
CS	Station

- e) Price adjustment for change in costs of civil works shall be paid in accordance with the following formula:
 - i) $VEW = 0.85 EW \times [PLB \times (LBi - LBo)/LBo + PF \times (Fi - Fo)/Fo + PMACH \times (MACHi - MACHo)/MACHo + POTH \times (OTHi - OTHo)/OTHo]$;

- ii) $VBR = 0.85 BR \times [PLB \times (LBI - LBo)/LBo + PC \times (Ci - Co)/Co + PSR \times (SRi - SRo)/SRo + PF \times (Fi - Fo)/Fo + PMACH \times (MACHI - MACHo)/MACHo + POTH \times (OTHi - OTHo)/OTHo]$;
- iii) $VSTN = 0.85 STN \times [PLB \times (LBI - LBo)/LBo + PC \times (Ci - Co)/Co + PSR \times (SRi - SRo)/SRo + PF \times (Fi - Fo)/Fo + PMACH \times ((MACHI - MACHo)/MACHo + POTH \times (OTHi - OTHo)/OTHo)]$;
- iv) $VCW = 0.85 CW \times [PLB \times (LBI - LBo)/LBo + PC \times (Ci - Co)/Co + PSR \times (SRi - SRo)/SRo + PSS \times (SSi - SSo)/SSo + PF \times (Fi - Fo)/Fo + PMACH \times (MACHI - MACHo)/MACHo + POTH \times (OTHi - OTHo)/OTHo]$;

Where,

- v) VEW = Increase or decrease in the cost under the Cost Centre 'CE' of Price Schedule 'A' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (f);
- vi) VBR = Increase or decrease in the cost of Cost Centre 'CB' of Price Schedule 'A' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (f);
- vii) VSTN = Increase or decrease in the cost of Cost Centre 'CS' of Price Schedule 'A' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (f);
- viii) VCW = Increase or decrease in the cost of work done under Price Schedule 'B' during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (f);

PC, PF, PLB, PMACH, POTH, PSR and PSS are the percentages of cement, fuel and lubricants, labour, Plant Machinery and tools, other materials, Reinforcement steel/ steel components (including strands and steel cables) and Structural Steel, respectively for the relevant item as specified in sub-paragraph (f);

- ix) Co = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for sub-group Cement, Lime & Plaster for the Base Month;
Ci = The WPI for sub-group Cement, Lime & Plaster for the average price index of the 3 months of the quarter under consideration;
- x) Fo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for group Fuel & Power for the Base Month;
Fi = The WPI for group Fuel & Power for the average price index of the 3 months of the quarter under consideration

- xi) LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called “CPI”) for the Base Month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration;

- xii) MACHo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called “WPI”) for category- k “Manufacturing of Machinery for Mining, quarrying and construction’ under (R) Manufacturing of Machinery and Equipment for the Base Month;

MACHi = The WPI for category- k “Manufacturing of Machinery for Mining, quarrying and construction’ under (R) Manufacturing of Machinery and Equipment for the average price index of the 3 months of the quarter under consideration;

- xiii) OTHo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called “WPI”) for all commodities for the Base Month;

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration;

- xiv) SRo = Average Rate of RINL for Rebar 8 mm (coil) as published for Ludhiana Branch on their website for the Base Month;

SRi = Average rate of RINL for Rebar 8 mm (coil) as published for Ludhiana Branch on their website for the 3 months of the quarter under consideration;

If only one rate is published for the 3 months of the quarter under consideration, the published rate for that quarter shall be considered for the quarter under consideration.

If no rate is published by RINL for Rebar 8mm (coil) for the 3 months of the quarter under consideration, the value of Si and So will be taken as under:

“SRo”: Wholesale Price Index for ‘MS Bright Bars’ individual commodity of group item (d) Mild Steel- Long products under (N) MANUFACTURE OF BASIC METALS, published by Office of Economic Adviser, Government of India, Ministry of Commerce & Industry Department of Industrial Policy & Promotion (DIIP) for the Base Month;

“SRi”: Average Wholesale Price Index for ‘MS Bright Bars’ individual commodity of group item (d) Mild Steel- Long products under (N) MANUFACTURE OF BASIC METAL, published by Office of Economic Adviser, Government of India, Ministry of Commerce & Industry

Department of Industrial Policy & Promotion (DIIP) for the 3 months of the quarter under consideration;

- xv) “SSo”: Whole Sale Price Index for group item (e) Mild Steel- Flat products under (N) MANUFACTURE OF BASIC METAL, published by Office of Economic Adviser, Government of India, Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (DPIIT) for the Base Month;

“SSi”: Whole Sale Price Index for group item (e) Mild Steel- Flat products under (N) MANUFACTURE OF BASIC METALS, published by Office of Economic Adviser, Government of India, Ministry of Commerce & Industry, Department for Promotion of Industry and Internal Trade (DPIIT) for the 3 months of the quarter under consideration;

- f) The following percentages shall govern the price adjustment of the Contract Price for cost of civil works:

Component	EW (Cost Centre CE of Price Schedule ‘A’)	BR (Cost Centre CB of Price Schedule ‘A’)	STN (Cost Centre CS of Price Schedule ‘A’)	CW (Price Schedule ‘B’)
(1)	(2)	(3)	(4)	(5)
Cement (PC)	-	20%	15%	20%
Fuel and lubricants (PF)	30%	20%	15%	15%
Labour (PLB)	20%	10%	25%	10%
Machinery and Plants (PMACH)	40%	15%	05%	10%
Other Materials (POTH)	10%	10%	20%	10%
Reinforcement Steel (PSR)	-	25%	20%	15%
Structural Steel (PSS)	-	-	-	20%
Total	100%	100%	100%	100%

- g) The following expressions and meanings are assigned to the value of the work done for Various General Electrical Services works:

- i) **ELEGWK** = Value of work done for General Electrical Services under Price Schedule ‘C’;
- h) **Price adjustment for changes in cost for various General Electrical Services works shall be paid in accordance with the following formula:**

$$i) \text{VELEGWK} = 0.85 \text{ELEGWK} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}]$$

Where: -

VELEGWK = Increase or decrease in the cost of work done under Price Schedule ‘C’ of ‘**General Electrical Services works**’ with complete accessories during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

PLB and POTH are the percentages of Labor and, All Other Commodities respectively for the relevant item as specified in sub-paragraph (i);

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called “CPI”) for the Base month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration

OTHo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called “WPI”) for “All commodities” for the Base month;

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration;

- i) **The following percentages shall govern the price adjustment of the Contract Price for Various General Electrical Services works:**

Component	General Electrical Services Works
Labour (PLB)	20%
All other commodities (POTH)	80 %
Total	100.00%

j) The following expressions and meanings are assigned to the value of the work done for Signalling & Telecommunication (S&T) Works:

i) **STWK** = Value of work done for Signalling & Telecommunication (S&T) Works under Price Schedule 'D';

k) Price adjustment for changes in cost for Signalling & Telecommunication (S&T) Works shall be paid in accordance with the following formula:

i) $VSTWK = 0.85 STWK \times [PLB \times (LBI - LBo)/LBo + POTH \times (OTHi - OTHo)/OTHo]$

Where: -

VSTWK = Increase or decrease in the cost of work done under Price Schedule 'D' of 'Signalling & Telecommunication (S&T) Works' with complete accessories during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

PLB and POTH are the percentages of Labor and, All Other Commodities respectively for the relevant item as specified in sub-paragraph (i);

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called "CPI") for the Base month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration

OTHo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for "All commodities" for the Base month;

OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration;

l) The following percentages shall govern the price adjustment of the Contract Price for Signalling & Telecommunication (S&T) Works:

Component	Signalling & Telecommunication (S&T) Works
Labour (PLB)	20%

All other commodities (POTH)	80 %
Total	100.00%

Table A. Foreign Currency (FC)

Not applicable as Tenderers are required to quote rates and prices only in INR.

Table B. Summary of Payment Currencies

For [insert name of Works]

Name of Payment Currency	A	B	C	D
	Amount of Currency	Rate of Exchange (local currency per unit of foreign)	Local Currency Equivalent $C = A \times B$	Percentage of Total Tender Price (TTP) $\frac{100 \times C}{TTP}$
For Schedule 'A'				
Local currency (INR)		1.00		
Foreign Currency # 1				
Foreign Currency # 2				
Foreign Currency # 3				
Schedule 'B' Local Currency (INR)		1.00		
Foreign Currency # 1				
Foreign Currency # 2				
Foreign Currency # 3				
Schedule 'C' Local Currency (INR)		1.00		
Foreign Currency # 1				
Foreign Currency # 2				
Foreign Currency # 3				

Schedule 'D' Local Currency (INR)		1.00		
Foreign Currency # 1				
Foreign Currency # 2				
Foreign Currency # 3				
Net Tender Price				
Provisional Sums Expressed in Local Currency (INR)	100,000,000.00	1.00	100,000,000.00	
TOTAL TENDER PRICE (including provisional sum)				100

Notes:

1. The Tenderer is required to propose and submit the schedules given in tables above as part of the Tender. The rates of exchange shall be the reference rate twenty-eight (28) days prior to the deadline for submission of Tenders published by the Reserve Bank of India (RBI) on its website <https://www.rbi.org.in>. In case the exchange rate of particular currency on given date is not available on RBI web site, it will be as per the web site <https://www.fbil.org.in> of Financial Benchmark India Private Limited (FBIL).
2. Total Tender Price quoted above shall be the same as shown in Worksheet BOQ5 (Price Schedule –Summary Sheet), MS Excel sheet uploaded on eProcurement portal. In case of discrepancy between the total price of Tender including provisional sums quoted in Letter of Tender-Financial Part, Table B. Summary of Payment Currencies above and in Worksheet BOQ5 (Price Schedule –Summary Sheet), Total Tender Price in Worksheet BOQ5 (Price Schedule –Summary Sheet) of MS-Excel File shall prevail.
3. Total Tender Price in Worksheet BOQ5 (Price Schedule –Summary Sheet) of MS-Excel File includes cost of Schedule 'A' plus Schedule 'B' plus Schedule 'C' plus Schedule 'D' plus Provisional Sum. Correction of Arithmetical Errors, if any, observed in MS-Excel sheets uploaded on eProcurement portal shall be carried out in accordance with ITT 36.

Appendix B to Financial Part: Price Schedules

1 Preamble

- 1.1. The Price Schedules shall be read in conjunction with the Instructions to Tenderers, the General Conditions, the Particular Conditions and the Employer's Requirements General, Functional, Design (Civil & BLT), Construction (Civil & BLT), Outline Design Specifications (ODS)-Civil & BLT, Outline Construction Specifications (OCS)-Civil & BLT, General Electrical Services, Signalling & Telecommunication (S&T) Works, Tender Drawings and Documents, Appendices and the Addenda/Corrigenda (if any). The price quoted by the Contractor for Price Schedules Schedule 'A', Schedule 'B' Schedule 'C' and Schedule 'D' shall include cost of the Works as per Part 2-Employer's Requirements (General, Functional, Design- Civil & BLT, Construction - Civil & BLT, Outline Design specifications (ODS) - Civil & BLT, Outline Construction Specifications (OCS) - Civil & BLT, General Electrical Services, Signalling & Telecom (S&T) Works, Tender Drawings and Documents, Appendices and the Addenda/Corrigenda (if any).
- 1.2. **Schedule 'A'** comprises cost of works to be executed under lump sum contract as detailed in Part 2- Employers' Requirements of Tender Document. Design of all permanent work included in the Scope of Works of Schedule 'A' and Schedule 'B' shall be included in Schedule 'A'. The Tenderer has to quote a single lump sum amount against Schedule 'A'. Payment to the Contractor will be made in accordance with payment stages/Milestones defined for each Cost Centre detailed in Clause 5.0 below unless otherwise specified in the Contract..
- 1.3. **Schedule 'B'** comprises of BoQ items for "Retaining Wall, Bridges & other civil works". Schedule 'B' is subdivided into fourteen parts i.e. Sub-Schedules B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13 and B14. Cost of design and drawings of all the temporary works, temporary road diversion is deemed to be included in the rates quoted for the relevant item of Schedule 'B' unless otherwise specified in the Contract. The Tenderer has to quote the percentage Excess (+) or Less (-) over the total Estimated amount of each Sub-Schedule of Schedule 'B' (which is shown as "Estimated Rate" against each Sub-Schedule of Schedule 'B' in BOQ2 of MS excel file on eProcurement portal). The payment against this Schedule 'B' will be made on the basis of quantities executed, measured and certified. Under this Schedule, the Contractor is required to carry out all works of retaining walls, bridges and other civil works, which are not covered in Schedule 'A', as per site requirements and as per the direction of the Engineer.
- 1.4. **Schedule 'C'** comprises of BoQ Items for "General Electrical Services works". The Tenderer has to quote the percentage Excess (+) or Less (-) over the total Estimated amount of Schedule 'C' (which is shown as "Estimated Rate" against Schedule 'C' in BOQ3 of MS excel file on eProcurement portal). The quoted rate includes the cost of design and drawings of relevant systems and items as specified in the Contract Documents. The payment against this Schedule will be made on the basis of quantities executed, measured and certified by the Engineer. Under this Schedule,

the Contractor is required to carry out all works of General Electrical Services works, which are not covered in Schedule 'A' or Schedule 'B', as per site requirements and as per the direction of the Engineer.

1.5. Schedule 'D' comprises BoQ Items for "Signalling & Telecommunication (S&T) Works".

The Tenderer has to quote the percentage Excess (+) or Less (-) over the total Estimated amount of Schedule 'D' (which is shown as "Estimated Rate" against Schedule 'D' in BOQ4 of MS excel file on eProcurement portal). The quoted rate includes the cost of design and drawings of relevant systems and items as specified in the Contract Documents. The payment against this Schedule will be made on the basis of quantities executed, measured and certified. Under this Schedule, the Contractor is required to carry out all works of shifting of Signalling & Telecommunication (S&T) Gears at DFCCIL New Prithla Station for connection to HORC Prithla Station, which are not covered in Schedule 'A' or Schedule 'B' or Schedule 'C' as per site requirements and as per the direction of the Engineer.

1.6. The Schedules may not generally give a full description of the works to be performed and the plant or equipment to be supplied under each item. Tenderers shall be deemed to have read the Employer's Requirements and the other sections of the Tender Documents and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling the rates and prices.

1.7. The price quoted in the Price Schedules for Schedule 'A', Schedule 'B' Schedule 'C' and Schedule 'D' are for complete and finished items of the work in all respects. The Price quoted in the Price Schedules shall, except otherwise specifically provided, shall include all design, include all necessary survey work, plants, tools, machinery, Contractor's equipment, labour, compliance of labour laws, supervision, materials, transportation, handling, loading & unloading, storage, sampling, testing, fuel, oil, consumables, electric power, water, all leads & lifts, dewatering, all temporary works including temporary accesses, staging, form works and false works, stacking, provision and maintenance of all temporary works area, construction of temporary store and buildings, fencing, barricading, lighting, drainage arrangements, erection & maintenance of inspection facilities above and below ground such as brick, concrete and steel etc., reinstatement, remedy of any defects during the Defects Notification Period, safety measures for workmen and road users, preparation of design and drawings pertaining to permanent and temporary works, & temporary diversion works, temporary road widening, traffic diversion works, mobilisation and demobilisation, establishment and overhead charges, labour camps, insurance cost for labour and works, contractor's profit, all taxes including Goods and Service Tax (GST), insurance, royalties, duties, cess, octroi, other levies and other charges together with all general risks, liabilities and obligations set out or implied in the Contract.

1.8. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Price Schedules, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Work.

- 1.9.To the extent acceptable to the Employer for the purpose of making payments or partial payments, valuing variations or evaluating claims, or for such other purposes as the Engineer may reasonably require, the Contractor may provide the Engineer with a breakdown of any composite or lump sum items included in the Schedules.
- 1.10.The Provisional Sums included and so designated in the Price Schedules shall be expended in whole or in part at the direction and discretion of the Engineer. The Provisional Sum shall be used to cover the Employer's share of the DAAB members' fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAAB in accordance with Sub-Clause 13.4 of Part B-Specific Provisions - Particular Conditions of Contract. The Contractor shall submit the DAAB members' invoices and satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those statements submitted under Sub-Clause 14.3. in accordance with Sub-Clauses 13.4 of the General Conditions.
- 1.11.The prices shall be quoted against Schedule 'A', Schedule 'B', Schedule 'C' and Schedule 'D' in the Price Schedule (Excel Workbook) uploaded on the eProcurement portal.
- 1.12.The prices quoted shall be comprehensive and must include for complying in all respects with the Price Schedules, Instruction to Tenderers, the General Conditions, the Particular Conditions, Employer's Requirements, Specifications and Drawings and for all matters and things necessary for the proper construction, completion, and making good of any defect in part or of the whole of the Works.
- 1.13.No claims for additional payment shall be allowed for any error or misunderstanding by the Contractor of the work involved.
- 1.14.The rates quoted by the Tenderer are for design and construction of the Works as per approved Alignment Plan & L-Section, approved GADs of bridges and approved drawings of other structures as per Scope of the Works.

2 Variations in Price Schedule 'A', Schedule 'B' Schedule 'C' and Schedule 'D'

- 2.1 Variations in Price Schedules shall be dealt in accordance with Sub Clause 13.3.1 of Part B-Specific Provisions, Section IX- Particular Conditions of Contract.
- 2.2 The through Chainages mentioned in the Scope of the Works/Tender Drawings can undergo some minor corrections, without any impact on the overall length/Scope of the Works.

3 Measurement and Payment

- 3.1 The measurement shall be made as per Price Schedules i.e. Schedule 'A', Schedule 'B', Schedule 'C' and Schedule 'D' and other relevant provisions of the Contract such as Employer's Requirements and the Drawings.
- 3.2 If during execution of the Contract, it is decided by the Employer/Engineer that one or more

items of Work/Milestone of a Cost Centre in a particular Price Schedule is not required to be executed, the proportionate amount against that particular Item of Work/Milestones shall not be paid. No claim by the Contractor on this account shall be payable by the Employer. The Engineer's decision in this regard shall be final.

- 3.3 The Payment shall be made as per Clause 14 [Contract Price and Payment] of the General Conditions and Particular Conditions.
- 3.4 The Employer shall make interim payments to the Contractor in accordance with the provisions of Sub-Clause 14.6 [Issue of Interim Payment Certificates] of the General Conditions and Particular Conditions, as certified by the Engineer on the basis of the progress achieved for the items of works/stages/Milestones of the works.
- 3.5 The Contractor shall base its claim for interim payment in accordance with Sub-Clause 14.3 [Application for Interim Payment] of the General Conditions and Particular Conditions for each stage for various items of work on the basis of actual progress of work executed (i.e. Milestones achieved) till the end of the month for which the payment is claimed in relation to the Contractor's total executed quantity, supported with documents and updated programme in accordance with the Employer's Requirements.
- 3.6 The Employer may carry out necessary tests, either directly or through an independent agency, of the Works done by the Contractor for which payment has been accepted and certified by the Engineer. The payment shall depend upon the outcome of such tests.
- 3.7 Format for the Contractor's application for payment shall be agreed between the Engineer and the Contractor.
- 3.8 All necessary supplementary details to support progress claims, including all certified Request for Inspection in hard bound copy, shall be included with application for payment. Sketches, drawings, approvals, calculations, test reports etc. shall accompany an application for payment to be substantiated and certified by the Engineer and submitted to the Employer.
- 3.9 Even if no work is executed during the month, or the Contractor does not choose to issue an application for payment, a 'NIL' application shall be submitted.
- 3.10 For the purposes of payment, the Contractor shall submit to the Engineer a detailed Price Schedule indicating a further breakdown for each stage of payment contained in the Price Schedules within forty-two (42) days after the receipt of the Letter of Acceptance. Such cost breakdowns shall be subject to approval of the Engineer who shall review and evaluate with comments and/or issue approval within twenty-eight (28) days of receipt of same. The Contractor shall resubmit the cost breakdown structure corresponding to the Engineer's comments for review, if required.
- 3.11 The Engineer is not obliged to issue an Interim Payment Certificate until such breakdown structure of payment schedule has been submitted and accepted by the Engineer.

4 Methodology for Claiming Payment

- 4.1 The Contractor shall prepare his monthly application for payment in the agreed format in two hard copies and one soft copy. This shall be accompanied by supplementary details in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates] of the General Conditions. All hard copies shall bear the original signatures of the Contractor's Representative and be submitted to the Engineer.
- 4.2 If these are found in order, in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] of the General Conditions, then the Engineer shall forward two certified copies of the application along with certified supplementary details to the Employer, with his recommendation for payment; otherwise, all documents shall be returned to the Contractor for rectification and resubmission.

5 Price Schedule

- 5.1 Schedule "A"- Breakup of Lump Sum cost of Works under various Sub-Heads shall be as follows:

Sub-Head	Description	Percentage of the quoted lump sum cost of Schedule 'A'	No. of Cost Centre	Total Cost of Sub-Head
1	2	3	4	5
C	Civil works	100%	4	C= 1xLS*

*LS = Total lump sum accepted cost of the Works for Schedule 'A'

- 5.2 Apportionment of Contract Price for payments under various Cost Centre for Sub-Head 'C'- Civil Works

Cost Centre	Description of Cost Centre	Percentage of Cost Centre 'C'	Total Cost of Cost Centre	Total Cost of Sub-Head 'C'
1	2	3	4	5
CD	Design and As Built Drawing & Documents	1.50%	CD= 0.015x 'C'	100% of SCH 'A'
CE	Earthwork and blanketing	50.50%	CE=0.505x 'C'	
CB	Bridges	38.00%	CB=0.38x 'C'	
CS	Station	10.00%	CS=0.10x 'C'	
Total		100.00%		

Note: Value of 'C' shall be as defined in Sub-Clause 5.1 above.

The percentage figures as filled in column (3) for the apportionment of the Contract Price for completion of the Works corresponding to the various Sub-Heads and Cost Centres are fixed and payment will be released for different Cost centre as per above percentage break-up of Contract Price.

5.2.1 Stages of Payment i.e. Milestones of Cost Centre 'CD'- Design and As Built Drawing & Documents

Cost Centre			'CD'- Design and As Built Drawing & Documents	
Weightage of Cost Centre 'CD', (X)-			1.5%	
Sub Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
CD1- Design	CD1.1	Preliminary design	Preliminary Design	4.00%
	CD1.2	Formation	Definitive design & Good for Construction Drawings (GFC)	5.00%
	CD1.3	Minor Bridges		
	CD1.3.1		Preparation & approval of GADs	10.00%
	CD1.3.2		Definitive Design	10.00%
	CD1.3.3		Good For Construction (GFC) Drawings	10.00%
	CD1.4	Major Bridges		
	CD1.4.1		Preparation & approval of GADs	7.00%
	CD1.4.2		Definitive Design of OWGs & Composite Girder superstructure of Bridge No.155, 195, 199, 200, 242, 257, 267, 273, 277, 287,300, 303, 304, 343, 346, 375, 384, 5C & 5D with BLT track including GFC	7.00%
	CD1.4.3		Definitive Design including RSI (except OWGs & Composite Girder superstructure of Bridge No. 155, 195, 199, 200, 242, 257, 267, 273, 277, 287,300, 303, 304, 343, 346, 375, 384, 5C & 5D with BLT track including GFC)	8.00%

Cost Centre		‘CD’- Design and As Built Drawing & Documents		
Weightage of Cost Centre ‘CD’, (X)-		1.5%		
Sub Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CD1.4.4		Good For Construction (GFC) Drawings (except OWGs & Composite Girder superstructure of Bridge Nos. 155, 195, 199, 200, 242, 257, 267, 273, 277, 287,300, 303, 304, 343, 346, 375, 384, 5C & 5D with BLT track including GFC)	8.00%
	CD1.5	Stations		
	CD1.5.1		Preparation & approval of Architectural Drawings	3.00%
	CD1.5.2		Definitive Design	2.00%
	CD1.5.3		Combined Services Drawings & MEP Drawings	2.00%
	CD1.5.4		Good For Construction (GFC) Drawings	4.00%
CD2- As Built Drawing & Documents	CD 2.1	As Built Drawings	Submission of As Built Drawings	13.00%
	CD 2.2	As Built Documents	Submission of As Built Documents	7.00%
Total				100.00%

Notes:

1. The value of each Milestones will be total lump sum accepted cost of Works for Schedule ‘A’ (LS) multiplied by X * Y. For example, the value of Milestone CD 1.3.1 will be equal to $LS * X * Y = LS * 0.015 * 0.10$.
2. Adjustment to Contract Price pursuant to GCC 13.7 shall **NOT** be applicable to the payments of Works executed under this Cost Centre.
3. All minor bridges shall have equal weightage. Payment of each stage/Milestones shall be made on pro rata basis on completion of a stage for a bridge.

4. All major bridges shall have equal weightage. Payment of each stage/Milestones shall be made on pro rata basis on completion of a stage for a bridge.
5. No payment shall be made against the Sub-Cost Centre CD 1.4.2, if design & drawing of superstructure of Br. Nos. 155, 195, 199, 200, 242, 257, 267, 273, 277, 287,300, 303, 304, 343, 346, 375, 384, 5C & 5D is not required and standard RDSO spans are adopted with the approval of the Engineer.
6. All stations shall have equal weightage. Payment of each stage/Milestones shall be made on pro rata basis on completion of a stage for a station.
7. Payment will be made on Completion of each Milestones as per weightage given in this Cost Centre
8. The cost of Milestones includes cost of design of the formation, Bridges, retaining wall & other Structures included in Schedule 'A' and Schedule 'B' as mentioned in Section VII-2: Functional, Employer's Requirements.

5.2.2 Stages of Payment i.e. Milestones of Cost Centre ‘CE’- Earthwork and Blanketing

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre ‘CE’, (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
CE.1- Earthwork	CE.1.1	Earthwork in formation from Ch 61500 m to 62000 m for double main line track		
	CE. 1.1.1		Earthwork in embankment / cutting including compaction.	0.28%
	CE. 1.1.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.03%
	CE. 1.1.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.02%
	CE.1.2	Earthwork in formation from Ch 62000 m to 63000 m for double main line track.		
	CE. 1.2.1		Earthwork in embankment/ cutting including compaction.	1.20%
	CE.1.2.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.1%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CE.1.2.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted.	0.10%
	CE.1.3	Earthwork in formation from Ch 63000m to 64000m for double main line track, connecting line, loop lines in Badsa Jn station yard		
	CE.1.3.1		Earthwork in embankment / cutting including compaction.	0.70%
	CE.1.3.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.3.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.4	Earthwork in formation from Ch 64000 to 65000 for double main line track, connecting line, loop lines, platform area in Badsa Jn station yard		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.4.1		Earthwork in embankment / cutting including compaction.	0.80%
	CE.1.4.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.4.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.5	Earthwork in formation from Ch 65000 to 66000 for double main line track, loop lines, platform area in Badsa Jn station yard.		
	CE.1.5.1		Earthwork in embankment / cutting including compaction.	0.65%
	CE.1.5.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.06%
	CE.1.5.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.6	Earthwork in formation from Ch		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		66000 to 67000 for double main line track.		
	CE.1.6.1		Earthwork in embankment / cutting including compaction.	0.40%
	CE.1.6.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.05%
	CE.1.6.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.7	Earthwork in formation from Ch 67000 to 68000 for double main line track.		
	CE.1.7.1		Earthwork in embankment / cutting including compaction.	0.60%
	CE.1.7.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.7.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.8	Earthwork in formation from Ch		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		68000 to 69000 for double main line track.		
	CE.1.8.1		Earthwork in embankment / cutting including compaction.	0.45%
	CE.1.8.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.06%
	CE.1.8.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.9	Earthwork in formation from Ch 69000 to 70000 for double main line track.		
	CE.1.9.1		Earthwork in embankment / cutting including compaction.	0.65%
	CE.1.9.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.06%
	CE.1.9.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.10	Earthwork in formation from Ch		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
		70000 to 71000 for double main line track & platform area in Deverkhana Station.		
	CE.1.10.1		Earthwork in embankment / cutting including compaction.	0.45%
	CE.1.10.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.10.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.11	Earthwork in formation from Ch 71000 to 72000 for double main line track & platform area in Deverkhana Station..		
	CE.1.11.1		Earthwork in embankment / cutting including compaction.	0.39%
	CE.1.11.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.05%
	CE.1.11.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring	0.04%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			that vegetative cover is properly rooted .	
	CE.1.12	Earthwork in formation from Ch 72000 to 73000 for double main line track.		
	CE.1.12.1		Earthwork in embankment / cutting including compaction.	0.37%
	CE.1.12.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.04%
	CE.1.12.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.13	Earthwork in formation from Ch 73000 to 74000 for double main line track.		
	CE.1.13.1		Earthwork in embankment / cutting including compaction.	1.40%
	CE.1.13.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.13%
	CE.1.13.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12	0.10%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			months and after ensuring that vegetative cover is properly rooted .	
	CE.1.14	Earthwork in formation from Ch 74000 to 75000 for double main line track.		
	CE.1.14.1		Earthwork in embankment / cutting including compaction.	0.95%
	CE.1.14.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.09%
	CE.1.14.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.07%
	CE.1.15	Earthwork in formation from Ch 75000 to 76000 for double main line track.		
	CE.1.15.1		Earthwork in embankment / cutting including compaction.	1.1%
	CE.1.15.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.11%
	CE.1.15.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12	0.09%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			months and after ensuring that vegetative cover is properly rooted .	
	CE.1.16	Earthwork in formation from Ch 76000 to 77000 for double main line track, loop lines, platform area in Badli station yard		
	CE.1.16.1		Earthwork in embankment / cutting including compaction.	2.00%
	CE.1.16.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.19%
	CE.1.16.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.12%
	CE.1.17	Earthwork in formation from Ch 77000 to 78000 for double main line track, loop lines, platform area in Badli station yard		
	CE.1.17.1		Earthwork in embankment / cutting including compaction.	1.34%
	CE.1.17.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified)	0.18%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
			and drainage arrangement complete in all respects.	
	CE.1.17.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.12%
	CE.1.18	Earthwork in formation from Ch 78000 to 79000 for double main line track.		
	CE.1.18.1		Earthwork in embankment / cutting including compaction.	0.69%
	CE.1.18.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.18.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.19	Earthwork in formation from Ch 79000 to 80000 for double main line track.		
	CE.1.19.1		Earthwork in embankment / cutting including compaction.	0.85%
	CE.1.19.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including	0.09%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			coir netting (where specified) and drainage arrangement complete in all respects.	
	CE.1.19.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.20	Earthwork in formation from Ch 80000 to 81000 for double main line track.		
	CE.1.20.1		Earthwork in embankment / cutting including compaction.	0.20%
	CE.1.20.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.02%
	CE.1.20.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.02%
	CE.1.21	Earthwork in formation from Ch 81000 to 82000 for double main line track.		
	CE.1.21.1		Earthwork in embankment / cutting including compaction.	0.52%
	CE.1.21.2		On cutting of extra width & dressing of slopes in profile, compaction, providing	0.05%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	
	CE.1.21.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.22	Earthwork in formation from Ch 82000 to 83000 for double main line track.		
	CE.1.22.1		Earthwork in embankment / cutting including compaction.	0.77%
	CE.1.22.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.22.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.23	Earthwork in formation from Ch 83000 to 84000 for double main line track.		
	CE.1.23.1		Earthwork in embankment / cutting including compaction.	0.61%
	CE.1.23.2		On cutting of extra width & dressing of slopes in profile,	0.08%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
			compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	
	CE.1.23.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.24	Earthwork in formation from Ch 84000 to 85000 for double main line track.		
	CE.1.24.1		Earthwork in embankment / cutting including compaction.	0.73%
	CE.1.24.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.24.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.25	Earthwork in formation from Ch 85000 to 86000 for double main line track.		
	CE.1.25.1		Earthwork in embankment / cutting including compaction.	0.44%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.25.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.05%
	CE.1.25.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.26	Earthwork in formation from Ch 86000 to 87000 for double main line track.		
	CE.1.26.1		Earthwork in embankment / cutting including compaction.	0.84%
	CE.1.26.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.09%
	CE.1.26.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.27	Earthwork in formation from Ch 87000 to 88000 for double main line track.		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.27.1		Earthwork in embankment / cutting including compaction.	0.28%
	CE.1.27.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.03%
	CE.1.27.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.02%
	CE.1.28	Earthwork in formation from Ch 88000 to 89000 for double main line track.		
	CE.1.28.1		Earthwork in embankment / cutting including compaction.	0.75%
	CE.1.28.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.28.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.29	Earthwork in formation from Ch 89000 to 90000 for double main line		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		track, loop lines in Mandothi station yard		
	CE.1.29.1		Earthwork in embankment / cutting including compaction.	1.25%
	CE.1.29.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.13%
	CE.1.29.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.09%
	CE.1.30	Earthwork in formation from Ch 90000 to 91000 for double main line track, connecting line, loop lines, platform area in Mandothi station yard.		
	CE.1.30.1		Earthwork in embankment / cutting including compaction.	3.9%
	CE.1.30.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.3%
	CE.1.30.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12	0.13%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
			months and after ensuring that vegetative cover is properly rooted .	
	CE.1.31	Earthwork in formation from Ch 91000 to 92000 for double main line track, connecting line, loop lines, in Mandothi station yard..		
	CE.1.31.1		Earthwork in embankment / cutting including compaction.	2.00%
	CE.1.31.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.21%
	CE.1.31.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.10%
	CE.1.32	Earthwork in formation from Ch 92000 to 93000 for double main line track.		
	CE.1.32.1		Earthwork in embankment / cutting including compaction.	2.2%
	CE.1.32.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.24%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CE.1.32.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.1%
	CE.1.33	Earthwork in formation from Ch 93000 to 94000 for double main line track.		
	CE.1.33.1		Earthwork in embankment / cutting including compaction.	1.67%
	CE.1.33.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.2%
	CE.1.33.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.1%
	CE.1.34	Earthwork in formation from Ch 94000 to 95000 for double main line track, platform area in New Asaudah Station.		
	CE.1.34.1		Earthwork in embankment / cutting including compaction.	1.85%
	CE.1.34.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including	0.21%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			coir netting (where specified) and drainage arrangement complete in all respects.	
	CE.1.34.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.1%
	CE.1.35	Earthwork in formation from Ch 95000 to 96000 m for double main line track.		
	CE.1.35.1		Earthwork in embankment / cutting including compaction.	1.15%
	CE.1.35.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.11%
	CE.1.35.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.08%
	CE.1.36	Earthwork in formation from Ch 96000 to 97000 for double main line track		
	CE.1.36.1		Earthwork in embankment / cutting including compaction.	0.66%
	CE.1.36.2		On cutting of extra width & dressing of slopes in profile, compaction, providing	0.06%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	
	CE.1.36.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.37	Earthwork in formation from Ch 97000 to 98000 for double main line track.		
	CE.1.37.1		Earthwork in embankment / cutting including compaction.	0.57%
	CE.1.37.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.04%
	CE.1.37.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.38	Earthwork in formation from Ch 98000 to 99000 for double main line track, platform area in Jasur Kheri Station.		
	CE.1.38.1		Earthwork in embankment / cutting including compaction.	0.67%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CE.1.38.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.0.6%
	CE.1.38.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.39	Earthwork in formation from Ch 99000 to 100000 for double main line track, platform area in Jasur Kheri Station..		
	CE.1.39.1		Earthwork in embankment / cutting including compaction.	0.94%
	CE.1.39.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.10%
	CE.1.39.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.40	Earthwork in formation from Ch 100000 to 101000 for double main line track		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.40.1		Earthwork in embankment / cutting including compaction.	0.94%
	CE.1.40.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.10%
	CE.1.40.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.41	Earthwork in formation from Ch 101000 to 102000 for double main line track		
	CE.1.41.1		Earthwork in embankment / cutting including compaction.	0.72%
	CE.1.41.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.41.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.42	Earthwork in formation from Ch 102000 to 103000		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		for double main line track		
	CE.1.42.1		Earthwork in embankment / cutting including compaction.	0.48%
	CE.1.42.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.05%
	CE.1.42.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.03%
	CE.1.43	Earthwork in formation from Ch 103000 to 104000 for double main line track		
	CE.1.43.1		Earthwork in embankment / cutting including compaction.	0.35%
	CE.1.43.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.04%
	CE.1.43.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.03%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.44	Earthwork in formation from Ch 104000 to 105000 for double main line track		
	CE.1.44.1		Earthwork in embankment / cutting including compaction.	0.83%
	CE.1.44.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.44.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.45	Earthwork in formation from Ch 105000 to 106000 for double main line track		
	CE.1.45.1		Earthwork in embankment / cutting including compaction.	0.2%
	CE.1.45.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.02%
	CE.1.45.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring	0.02%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			that vegetative cover is properly rooted .	
	CE.1.46	Earthwork in formation from Ch 106000 to 107000 for double main line track		
	CE.1.46.1		Earthwork in embankment / cutting including compaction.	0.66%
	CE.1.46.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%
	CE.1.46.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.47	Earthwork in formation from Ch 107000 to 108000 for double main line track, loop lines in Khrkhoda station yard.		
	CE.1.47.1		Earthwork in embankment / cutting including compaction.	0.52%
	CE.1.47.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.07%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CE.1.47.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.48	Earthwork in formation from Ch 108000 to 109000 for double main line track, loop lines, platform area in Kharkhoda station yard.		
	CE.1.48.1		Earthwork in embankment / cutting including compaction.	1.04%
	CE.1.48.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.11%
	CE.1.48.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.49	Earthwork in formation from Ch 109000 to 110000 for double main line track, loop lines, platform area in Kharkhoda station yard.		
	CE.1.49.1		Earthwork in embankment / cutting including compaction.	0.9%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.49.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.10%
	CE.1.49.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.50	Earthwork in formation from Ch 110000 to 111000 for double main line track.		
	CE.1.50.1		Earthwork in embankment / cutting including compaction.	1.22%
	CE.1.50.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.14%
	CE.1.50.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.08%
	CE.1.51	Earthwork in formation from Ch 111000 to 112000 for double main line track.		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.51.1		Earthwork in embankment / cutting including compaction.	0.91%
	CE.1.51.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.10%
	CE.1.51.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.52	Earthwork in formation from Ch 112000 to 1130000 for double main line track.		
	CE.1.52.1		Earthwork in embankment / cutting including compaction.	0.62%
	CE.1.52.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.06%
	CE.1.52.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.53	Earthwork in formation from Ch 113000 to 114000 for double main line		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
		track, loop lines, platform area in Tarakpur station yard.		
	CE.1.53.1		Earthwork in embankment / cutting including compaction.	0.8%
	CE.1.53.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.53.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.54	Earthwork in formation from Ch 114000 to 115000 for double main line track, loop lines, platform area in Tarakpur station yard.		
	CE.1.54.1		Earthwork in embankment / cutting including compaction.	0.9%
	CE.1.54.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.54.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12	0.05%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			months and after ensuring that vegetative cover is properly rooted .	
	CE.1.55	Earthwork in formation from Ch 115000 to 116000 for double main line track.		
	CE.1.55.1		Earthwork in embankment / cutting including compaction.	0.78%
	CE.1.55.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.55.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.05%
	CE.1.56	Earthwork in formation from Ch 116000 to 117000 for double main line track.		
	CE.1.56.1		Earthwork in embankment / cutting including compaction.	0.55%
	CE.1.56.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.06%
	CE.1.56.3		On completion of maintenance of slopes, drainage system & vegetative	0.04%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	
	CE.1.57	Earthwork in formation from Ch 117000 to 118000 for double main line track.		
	CE.1.57.1		Earthwork in embankment / cutting including compaction.	1.25%
	CE.1.57.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.17%
	CE.1.57.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.08%
	CE.1.58	Earthwork in formation from Ch 118000 to 119000 for double main line track.		
	CE.1.58.1		Earthwork in embankment / cutting including compaction.	2.30%
	CE.1.58.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.27%
	CE.1.58.3		On completion of maintenance of slopes,	0.1%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
			drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	
	CE.1.59	Earthwork in formation from Ch 119000 to 120000 for double main line track.		
	CE.1.59.1		Earthwork in embankment / cutting including compaction.	2.30%
	CE.1.59.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.18%
	CE.1.59.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.1%
	CE.1.60	Earthwork in formation from Ch 120000 to 121000 for double main line track.		
	CE.1.60.1		Earthwork in embankment / cutting including compaction.	1.71%
	CE.1.60.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.2%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.1.60.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.1%
	CE.1.61	Earthwork in formation from Ch 121000 to 122000 for double main line track.		
	CE.1.61.1		Earthwork in embankment / cutting including compaction.	1.5%
	CE.1.61.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.17%
	CE.1.61.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.08%
	CE.1.62	Earthwork in formation from Ch 122000 to 123000 for double main line track.		
	CE.1.62.1		Earthwork in embankment / cutting including compaction.	0.25%
	CE.1.62.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified)	0.02%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
			and drainage arrangement complete in all respects.	
	CE.1.62.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.03%
	CE.1.63	Earthwork in formation from Ch 123000 to 124000 for double main line track.		
	CE.1.63.1		Earthwork in embankment / cutting including compaction.	0.38%
	CE.1.63.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.05%
	CE.1.63.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.04%
	CE.1.64	Earthwork in formation from Ch 124000 to 125000 for double main line track, connecting line, loop lines, platform area in New Harsan Kalan station yard.		
	CE.1.64.1		Earthwork in embankment / cutting including compaction.	0.25%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CE.1.64.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.04%
	CE.1.64.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.03%
	CE.1.65	Earthwork in formation from Ch 125000 to 126023 for double main line track, connecting line, loop lines, platform area in New Harsan Kalan station yard.		
	CE.1.65.1		Earthwork in embankment / cutting including compaction.	0.16%
	CE.1.65.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.03%
	CE.1.65.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.02%
	CE.1.66	Earthwork in formation from Ch 513 to 3354 for		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		Badsa -Sultanpur connecting line.		
	CE.1.66.1		Earthwork in embankment / cutting including compaction.	0.2%
	CE.1.66.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.03%
	CE.1.66.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.02%
	CE.1.67	Earthwork in formation from Ch 616 to 2000m for Mandothi-Asaudah connecting line.		
	CE.1.67.1		Earthwork in embankment / cutting including compaction.	1.11%
	CE.1.67.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.12%
	CE.1.67.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.08%
	CE.1.68	Earthwork in formation from Ch		

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		2000 to 3000m for Mandothi -Asaudah connecting line.		
	CE.1.68.1		Earthwork in embankment / cutting including compaction.	0.86%
	CE.1.68.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.08%
	CE.1.68.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.06%
	CE.1.69	Earthwork in formation from Ch 3000 to 4180m for Mandothi -Asaudah connecting line.		
	CE.1.69.1		Earthwork in embankment / cutting including compaction.	0.37%
	CE.1.69.2		On cutting of extra width & dressing of slopes in profile, compaction, providing vegetative cover including coir netting (where specified) and drainage arrangement complete in all respects.	0.05%
	CE.1.69.3		On completion of maintenance of slopes, drainage system & vegetative cover for a period of 12 months and after ensuring that vegetative cover is properly rooted .	0.03%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
CE.2-Blanketing	CE.2.1	Blanketing from Ch 61500 m to 62000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.20%
	CE.2.2	Blanketing from Ch 62000m to 63000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.41%
	CE.2.3	Blanketing from Ch 63000 to 64000 for double main line track, connecting line, loop lines in Badsa Jn station yard	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.68%
	CE.2.4	Blanketing from Ch 64000 to 65000 for double main line track, connecting line, loop lines in Badsa Jn station yard	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.61%
	CE.2.5	Blanketing from Ch 65000 to 66000 for double main line track, loop lines in Badsa Jn station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.46%
	CE.2.6	Blanketing from Ch 66000 to 67000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.7	Blanketing from Ch 67000 to 68000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.8	Blanketing from Ch 68000 to 69000m for	Blanketing on subgrade/ prepared subgrade as per	0.36%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		double main line track.	design profile including compaction complete in all respects.	
	CE.2.9	Blanketing from Ch 69000 to 70000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.10	Blanketing from Ch 70000 to 71000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.35%
	CE.2.11	Blanketing from Ch 71000 to 72000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.32%
	CE.2.12	Blanketing from Ch 72000 to 73000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.13	Blanketing from Ch 73000 to 74000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.43%
	CE.2.14	Blanketing from Ch 74000 to 75000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.43%
	CE.2.15	Blanketing from Ch 75000 to 76000m for double main line track, loop lines in Badli station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.16	Blanketing from Ch 76000 to 77000m for double main line	Blanketing on subgrade/ prepared subgrade as per design profile including	0.52%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		track, loop lines in Badli station yard	compaction complete in all respects.	
	CE.2.17	Blanketing from Ch 77000 to 78000m for double main line track, loop lines in Badli station yard	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.49%
	CE.2.18	Blanketing from Ch 78000 to 79000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.19	Blanketing from Ch 79000 to 80000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.20	Blanketing from Ch 80000 to 81000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.21	Blanketing from Ch 81000 to 82000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.22	Blanketing from Ch 82000 to 83000 for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.23	Blanketing from Ch 83000 to 84000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.24	Blanketing from Ch 84000 to 85000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.41%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.2.25	Blanketing from Ch 85000 to 86000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.26	Blanketing Ch 86000 to 87000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.27	Blanketing from Ch 87000 to 88000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.28	Blanketing from Ch 88000 to 89000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.39%
	CE.2.29	Blanketing from Ch 89000 to 90000m for double main line track, connecting line, loop lines in Mandothi station yard	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.43%
	CE.2.30	Blanketing from Ch 90000 to 91000 for double main line track, loop lines, connecting line in Mandothi station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.75%
	CE.2.31	Blanketing from Ch 91000 to 92000m for double main line track, loop lines, connecting line in Mandothi station yard..	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.43%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.2.32	Blanketing from Ch 92000 to 93000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.40%
	CE.2.33	Blanketing from Ch 93000 to 94000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.44%
	CE.2.34	Blanketing from Ch 94000 to 95000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.35	Blanketing from Ch 95000 to 96000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.36	Blanketing from Ch 96000 to 97000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.43%
	CE.2.37	Blanketing from Ch 97000 to 98000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.42%
	CE.2.38	Blanketing from Ch 98000 to 99000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.33%
	CE.2.39	Blanketing from Ch 99000 to 100000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.34%
	CE.2.40	Blanketing from Ch 100000 to 101000 m	Blanketing on subgrade/ prepared subgrade as per	0.38%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		for double main line track.	design profile including compaction complete in all respects.	
	CE.2.41	Blanketing from Ch 101000 to 102000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.40%
	CE.2.42	Blanketing from Ch 102000 to 103000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.43	Blanketing from Ch 103000 to 104000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.44	Blanketing from Ch 104000 to 105000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.45	Blanketing from Ch 105000 to 106000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.46	Blanketing from Ch 106000 to 107000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.47	Blanketing from Ch 107000 to 108000 m for double main line track, loop lines in Kharkhoda station yard..	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.48	Blanketing from Ch 108000 to 109000m for double main line	Blanketing on subgrade/ prepared subgrade as per design profile including	0.70%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		track, loop lines in Kharkhoda station yard.	compaction complete in all respects.	
	CE.2.49	Blanketing from Ch 109000 to 110000m for double main line track, loop lines in Kharkhoda station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.56%
	CE.2.50	Blanketing from Ch 110000 to 111000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.43%
	CE.2.51	Blanketing from Ch 111000 to 112000m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.40%
	CE.2.52	Blanketing from Ch 112000 to 1130000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.53	Blanketing from Ch 113000 to 114000 m for double main line track, loop lines in Tarakpur station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.46%
	CE.2.54	Blanketing from Ch 114000 to 115000 m for double main line track, loop lines in Tarakpur station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.54%
	CE.2.55	Blanketing from Ch 115000 to 116000 m for double main line track.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.36%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CE.2.56	Blanketing from Ch 116000 to 117000 m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.37%
	CE.2.57	Blanketing from Ch 117000 to 118000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.36%
	CE.2.58	Blanketing from Ch 118000 to 119000 m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.41%
	CE.2.59	Blanketing from Ch 119000 to 120000 m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.44%
	CE.2.60	Blanketing from Ch 120000 to 121000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.35%
	CE.2.61	Blanketing from Ch 121000 to 122000 m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.35%
	CE.2.62	Blanketing from Ch 122000 to 123000m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.30%
	CE.2.63	Blanketing from Ch 123000 to 124000 m for double main line track.	Blanketing on subgrade/prepared subgrade as per design profile including compaction complete in all respects.	0.30%
	CE.2.64	Blanketing from Ch 124000 to 125000 m	Blanketing on subgrade/prepared subgrade as per	0.50%

Cost Centre			CE-Earthwork and Blanketing	
Weightage of Cost Centre 'CE', (X)			50.50%	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
		for double main line track, loop lines, in New Harsan Kalan station yard.	design profile including compaction complete in all respects.	
	CE.2.65	Blanketing from Ch 125000 to 126023 m for double main line track, loop lines in New Harsan Kalan station yard.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.50%
	CE.2.66	Blanketing from Ch 513 to 3354 m for Badsa- Sultanpur connecting single line.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.44%
	CE.2.67	Blanketing from Ch 616 to 2000 m for Mandothi- Asaudah connecting single line.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.19%
	CE.2.68	Blanketing from Ch 2000 to 3000 m for Mandothi- Asaudah connecting single line.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.12%
	CE.2.69	Blanketing from Ch 3000 to 4180 m for Mandothi- Asaudah connecting single line.	Blanketing on subgrade/ prepared subgrade as per design profile including compaction complete in all respects.	0.21%
			Total	100.00%

Notes:

1. The value of each Milestones will be total lump sum accepted cost of Works for Schedule 'A' (LS) multiplied by X * Y. For example, the value of Milestone CE1.1.1 will be equal to $LS * X * Y = LS * 0.505 * 0.0028$.

1. Adjustment to Contract Price

2. Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Sub Heads / Price Schedule.

3. Payment will be made on Completion of each Milestones as per weightage given in this schedule.
4. If owing to site conditions or any other reasons, locations of retaining walls are changed or new retaining walls are constructed or retaining walls are eliminated & normal bank is provided, the variation caused in quantity of earthwork in embankment on this account shall be payable/ recoverable under Item No. NS-4 of Schedule 'B9'.

5.2.3 Milestones of Cost Centre ‘CB’- for Bridges

Cost Centre			CB- Bridges	
Weightage of Cost Centre ‘CB’, (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
CB1-Minor Bridges	CB.1.1	Construction of minor bridge No. Nil between Ch 61500 to 62000m.		0%
	CB.1.2	Construction of minor bridge No. 156, 157, 158, 159 & 160 between Ch 62000 to 63000m.	On completion of bridge works in all respects	2.61%
	CB.1.3	Construction of minor bridge No. 161 & 162 between Ch 63000 to 64000m.	On completion of bridge works in all respects	0.43%
	CB1.4	Construction of minor bridge No. 163, 164, 165 & 166 between ch 64000 to 65000m.	On completion of bridge works in all respects	1.39%
	CB1.5	Construction of minor bridge No. 167, 168 & 169 between ch 65000 to 66000m.	On completion of bridge works in all respects	0.49%
	CB1.6	Construction of minor bridge No. 170 & 171 between ch 66000 to 67000.	On completion of bridge works in all respects	0.19%
	CB1.7	Construction of minor bridge No. 173, 174, 175 & 177 between Ch 67000 to 68000.	On completion of bridge works in all respects	1.6%
	CB1.8	Construction of minor bridge No. 179 & 180 between Ch 68000 to 69000.	On completion of bridge works in all respects	0.19%
	CB1.9	Construction of minor bridge No. 181 & 182	On completion of bridge works in all respects	0.44%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
		between ch 69000 to 70000.		
	CB1.10	Construction of minor bridge No. 187 between Ch 70000 to 71000.	On completion of bridge works in all respects	0.10%
	CB1.11	Construction of minor bridge No. 188 between Ch 71000 to 72000m.	On completion of bridge works in all respects	0.10%
	CB1.12	Construction of minor bridge No. 192 & 193 between Ch 72000 to 73000.	On completion of bridge works in all respects	0.21%
	CB1.13	Construction of minor bridge No. 194 & 196 between ch 73000 to 74000.	On completion of bridge works in all respects	0.64%
	CB1.14	Construction of minor bridge No. Nil between Ch 74000 to 75000m.		0%
	CB1.15	Construction of minor bridge No. 202 between Ch 75000 to 76000.	On completion of bridge works in all respects	0.54%
	CB1.16	Construction of minor bridge No. 204 between Ch 76000 to 77000.	On completion of bridge works in all respects	0.47%
	CB1.17	Construction of minor bridge No. 205, 206 & 209 between Ch 77000 to 78000m for main line track.	On completion of bridge works in all respects	1.29%
	CB1.18	Construction of minor bridge No. 210, 211, 212, 213 & 214 between Ch	On completion of bridge works in all respects	0.69%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
		78000 to 79000m for main line track.		
	CB1.19	Construction of minor bridge No. 216, 217 & 218 between Ch 79000 to 80000m for main line track.	On completion of bridge works in all respects	0.78%
	CB1.20	Construction of minor bridge No. 221, 222 & 223 between Ch 80000 to 81000m for main line track.	On completion of bridge works in all respects	0.28%
	CB1.21	Construction of minor bridge No. 225, 226, 227 & 228 between Ch 81000 to 82000m for main line track.	On completion of bridge works in all respects	1.83%
	CB1.22	Construction of minor bridge No. 230, 231, 232 & 233 between Ch 82000 to 83000m for main line track.	On completion of bridge works in all respects	0.92%
	CB1.23	Construction of minor bridge No. 236, 237, 238, 239 & 240 between Ch 83000 to 84000m for main line track.	On completion of bridge works in all respects	0.68%
	CB1.24	Construction of minor bridge No. 241, 243 & 244 between Ch 84000 to 85000m for main line track.	On completion of bridge works in all respects	0.82%
	CB1.25	Construction of minor bridge No. 247 between Ch 85000 to 86000m for main line track.	On completion of bridge works in all respects	0.37%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CB1.26	Construction of minor bridge No. 249 & 251 between Ch 86000 to 87000m for main line track.	On completion of bridge works in all respects	0.93%
	CB1.27	Construction of minor bridge No. 252 & 253 between Ch 87000 to 88000m for main line track.	On completion of bridge works in all respects	0.41%
	CB1.28	Construction of minor bridge No. 254 & 256 between Ch 88000 to 89000m for main line track.	On completion of bridge works in all respects	0.2%
	CB1.29	Construction of minor bridge No. 258 & 260 between Ch 89000 to 90000m for main line track.	On completion of bridge works in all respects	1.21%
	CB1.30	Construction of minor bridge No. 262 & 264 between Ch 90000 to 91000m for main line track.	On completion of bridge works in all respects	1.38%
	CB1.31	Construction of minor bridge No. 265 & 266 between Ch 91000 to 92000m for main line track.	On completion of bridge works in all respects	2.64%
	CB1.32	Construction of minor bridge No. 270 & 271 between Ch 92000 to 93000m for main line track.	On completion of bridge works in all respects	1.3%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CB1.33	Construction of minor bridge No. 272, 274 & 275 between Ch 93000 to 94000m for main line track.	On completion of bridge works in all respects	1.74%
	CB1.34	Construction of minor bridge No. 276, 279 & 280 between Ch 94000 to 95000m for main line track.	On completion of bridge works in all respects	3.32%
	CB1.35	Construction of minor bridge No. 282 & 284 between Ch 95000 to 96000m for main line track.	On completion of bridge works in all respects	0.6%
	CB1.36	Construction of minor bridge No. 285, 286 & 288 between Ch 96000 to 97000m for main line track.	On completion of bridge works in all respects	0.97%
	CB1.37	Construction of minor bridge No. 289, 290, 291 & 292 between Ch 97000 to 98000m for main line track.	On completion of bridge works in all respects	1.86%
	CB1.38	Construction of minor bridge No. 293, 294, 295 & 296 between Ch 98000 to 99000m for main line track.	On completion of bridge works in all respects	0.79%
	CB1.39	Construction of minor bridge No. 299, 301 & 302 between Ch 99000 to 100000m for main line track.	On completion of bridge works in all respects	1.39%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CB1.40	Construction of minor bridge No. Nil between Ch 100000 to 101000m for main line track.		0.00%
	CB1.41	Construction of minor bridge No. 305, 306 & 308 between Ch 101000 to 102000m for main line track.	On completion of bridge works in all respects	0.66%
	CB1.42	Construction of minor bridge No. 309 & 310 between Ch 102000 to 103000m for main line track.	On completion of bridge works in all respects	0.2%
	CB1.43	Construction of minor bridge No. 312, 313, 314 & 315 between Ch 103000 to 104000m for main line track.	On completion of bridge works in all respects	0.81%
	CB1.44	Construction of minor bridge No. 316, 318, 319 & 320 between Ch 104000 to 105000m for main line track.	On completion of bridge works in all respects	1.03%
	CB1.45	Construction of minor bridge No. 321, 322, 323 & 324 between Ch 105000 to 106000m for main line track.	On completion of bridge works in all respects	0.39%
	CB1.46	Construction of minor bridge No. 325, 326 & 327 between Ch 106000 to 107000m for main line track.	On completion of bridge works in all respects	0.30%
	CB1.47	Construction of minor bridge No. 329, 330, 331, 332 & 333 between Ch	On completion of bridge works in all respects	0.67%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
		107000 to 108000m for main line track.		
	CB1.48	Construction of minor bridge No. 334 & 335 between Ch 108000 to 109000m for main line track.	On completion of bridge works in all respects	0.52%
	CB1.49	Construction of minor bridge No. 338, 339, 340, 341 & 342 between Ch 109000 to 110000m for main line track.	On completion of bridge works in all respects	1.11%
	CB1.50	Construction of minor bridge No. 344 & 345 between Ch 110000 to 111000m for main line track.	On completion of bridge works in all respects	0.48%
	CB1.51	Construction of minor bridge No. 347 & 349 between Ch 111000 to 112000m for main line track.	On completion of bridge works in all respects	0.39%
	CB1.52	Construction of minor bridge No. 350 between Ch 112000 to 113000m for main line track.	On completion of bridge works in all respects	0.32%
	CB1.53	Construction of minor bridge No. 353, 354, 355 & 356 between Ch 113000 to 114000m for main line track.	On completion of bridge works in all respects	1.02%
	CB1.54	Construction of minor bridge No. 357 & 358 between Ch 114000 to 115000m for main line track.	On completion of bridge works in all respects	0.41%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CB1.55	Construction of minor bridge No. 361, 362 & 364 between Ch 115000 to 116000m for main line track.	On completion of bridge works in all respects	0.33%
	CB1.56	Construction of minor bridge No. 365, 366, 367, 368 & 369 between Ch 116000 to 117000m for main line track.	On completion of bridge works in all respects	1.60%
	CB1.57	Construction of minor bridge No. 370, 371 & 373 between Ch 117000 to 118000m for main line track.	On completion of bridge works in all respects	0.95%
	CB1.58	Construction of minor bridge No. 376 between Ch 118000 to 119000m for main line track.	On completion of bridge works in all respects	1.2%
	CB1.59	Construction of minor bridge No. 377, 378, 379, 380 & 381 between Ch 119000 to 120000m for main line track.	On completion of bridge works in all respects	3.73%
	CB1.60	Construction of minor bridge No. 382 & 383 between Ch 120000 to 121000m for main line track.	On completion of bridge works in all respects	1.00%
	CB1.61	Construction of minor bridge No. 385 & 386 between Ch 121000 to 122000m for main line track.	On completion of bridge works in all respects	1.25%
	CB1.62	Construction of minor bridge No. 387 between	On completion of bridge works in all respects	0.45%

Cost Centre			CB- Bridges	
Weightage of Cost Centre 'CB', (X)			38.00%	
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
		Ch 122000 to 123000m for main line track.		
	CB1.63	Construction of minor bridge No. 389 & 392 between Ch 123000 to 124000m for main line track.	On completion of bridge works in all respects	1.19%
	CB1.64	Construction of minor bridge No. Nil between Ch 124000 to 125000m for main line track.		0%
	CB1.65	Construction of minor bridge No. 393 & 394 between Ch 125000 to 126023m for main line track.	On completion of bridge works in all respects	0.20%
	CB1.66	Construction of minor bridge No. 4A & 4B between Ch 513 to 3354 m on Badsa-Sultanpur connectivity line.	On completion of bridge works in all respects	0.76%
	CB1.67	Construction of minor bridge No. 5A between Ch 616 to 2000 m on Badsa-Sultanpur connectivity line.	On completion of bridge works in all respects	0.40%
	CB1.68	Construction of minor bridge No. 5B & 5B1 between Ch 2000 to 3000 m on Badsa-Sultanpur connectivity line.	On completion of bridge works in all respects	1.65%
	CB1.69	Construction of minor bridge No. 5E, 5F & 5G between Ch 3000 to 4180 m on Badsa-Sultanpur connectivity line.	On completion of bridge works in all respects	0.65%

Cost Centre		CB- Bridges		
Weightage of Cost Centre 'CB', (X)		38.00%		
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
CB.2-Major Bridges	CB.2.1	Foundation	On completion of the foundation work including pile caps/ well caps and foundations for wing and return walls, and testing.	14%
	CB.2.2	Substructure	On Completion of Abutment/Piers including Abutment/Pier Cap without bearings.	
	CB.2.2.1		Pier/Abutment	2.5%
	CB.2.2.2		Pier/Abutment cap	1.0%
	CB.2.2.3		Completion of the wing walls, return walls in all respects.	2.5%
	CB.2.3	Superstructure		
	CB.2.3.1		On completion of superstructure including launching in position.	8.0%
	CB.2.3.2		On fixing of bearings in position true to line & level and placement of superstructure on bearings including grouting of holding down bolts complete	2.00%
	CB.2.4	Miscellaneous works		
	CB.2.4.1		On completion of backfill, transition system on approaches, Trolley refuge, Pathway on the sides, Inspection arrangement including access ladder etc.as per approved drawings and Employer's Requirements.	5.20%

Cost Centre		CB- Bridges		
Weightage of Cost Centre 'CB', (X)		38.00%		
Sub-cost Centre	Item of Work		Milestone	Weightage
	No.	Description		(Y)
1	2	3	4	5
	CB.2.4.2		On completion of balance works as per drawing like-Protection works including Toe wall, flooring / apron, inspection steps, Bridge plaque, Bridge board, painting of HFL, Height Gauge, approach road, drainage arrangement in RUBs, and Testing on completion, if any, complete in all respect and fit for use.	5.33%
			Total	100.00%

Notes:

2. The value of each Milestones will be total lump sum accepted cost of Works for Schedule 'A' (LS) multiplied by X * Y. For example, the value of Milestone CB 1.2 will be equal to $LS * X * Y = LS * 0.38 * 0.000261$.
3. Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Sub Head / Price Schedule.
4. CB2.2-Major Bridges:
 - (vi) For the purpose of stage payment/Milestones, cost of a bridge shall be taken in proportion to its linear length measured along the alignment to the total linear length of all major bridges.
 - (vii) Payment of each stage/Milestones for a bridge will be made on completion of the relevant stage as per the weightage given in this schedule in proportion to the cost of the bridge.
5. Stages CB.2.1 to CB.2.2 will further be subdivided into the number of piers + 2 abutments, as applicable as per approved drawing by the Engineer, and Milestones for completed work for each pier and abutment shall be made as per the requirement of the stages stated above.
6. For steel Open Web Girder (OWG) and Composite girders payment against Cost centre CB.2.3.1 shall be released as per following schedule-

- (i) Receipt of material at approved location against submission of Bank Guarantees: 40%
- (ii) Fabrication of girder and transportation to site: 25%
- (iii) Erection/launching and completion of all other balance works: 35%,

and for PSC girder/slabs payment against sub cost centre 2.3.1 shall be released as per following schedule-

- (i) On casting of PSC girder/slabs: 50%
- (ii) On first stage prestressing: 20%
- (iii) On completion in all respect: 30%

- 7. The Cost of Milestones includes cost of all temporary works and temporary diversion of roads wherever required, for all bridges included in Schedule 'A', Section VII-2:Functional, Employer's Requirements.
- 8. The Cost of Milestones include cost of all permanent roads diversion and regrading of roads, wherever required, for all bridges included in Schedule 'A'.

5.2.4 Stages of Payment i.e. Milestones of Cost Centre ‘CS’- Stations Buildings

Cost Centre			‘CS’- Stations Buildings	
Weightage of Cost Centre ‘CS’, (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
CS.1-Badli	CS.1.1	Station building	Construction of station building complete in all respects.	1.40%
	CS.1.2	Platform & Passenger amenities		
	CS.1.2.1		Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer’s requirements.	1.80%
	CS.1.2.2		Surfacing of platform, Precast coping, tactile tiles, fencing at end platform etc.	1.70%
	CS.1.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.1.2.4		Passenger amenities	0.45%
	CS.1.3	Subway		
	CS.1.3.1		On completion of barrel of RCC box.	3.0%
	CS.1.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.25%
	CS.1.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.5%
	CS.1.4	Water Supply	Water supply works including bore well, pump house, underground & overhead water storage tanks, water supply distribution system	0.50%
	CS.1.5	Drainage and Sewerage	On completion of drainage and sewerage system.	1.00%
	CS.1.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platform, platform	0.35%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
			number boards and other incidental works in railway station area.	
CS.2-Dever Khana	CS.2.1	Station building	Construction of ticket booking office complete in all respects.	0.1%
	CS.2.2	Platform & Passenger amenities		
	CS.2.2.1		Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer's requirements.	1.30%
	CS.2.2.2		Surfacing of platform, Precast coping, tactile tiles, fencing at end platform etc.	1.30%
	CS.2.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.2.2.4		Passenger amenities	0.45%
	CS.2.3	Subway		
	CS.2.3.1		On completion of barrel of RCC box.	2.75%
	CS.2.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.00%
	CS.2.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.25%
	CS.2.4	Water Supply	Water supply works including bore well, pump house, underground & overhead water storage tanks, water supply distribution system.	0.40%
	CS.2.5	Drainage and Sewerage system	On completion of drainage and sewerage system.	0.70%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.2.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platform, platform number boards area and other incidental works in railway station area.	0.25%
CS.3-New Asaudah	CS.3.1	Station building	Construction of ticket booking office complete in all respects.	0.1%
	CS.3.2	Platform & Passenger amenities		
	CS.3.2.1		Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer's requirements.	1.30%
	CS.3.2.2		Surfacing of platform, Precast coping, tactile tiles, fencing at end platform etc.	1.30%
	CS.3.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.3.2.4		Passenger amenities	0.45%
	CS.3.3	Subway		
	CS.3.3.1		On completion of barrel of RCC box.	2.75%
	CS.3.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.00%
	CS.3.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.10%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.3.4	Water Supply	Water supply works including bore well, pump house, underground & overhead water storage tanks, water supply distribution system.	0.40%
	CS.3.5	Drainage and Sewerage system	On completion of drainage and sewerage system.	0.7%
	CS.3.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platform, platform number boards area and other incidental works in railway station area.	0.25%
CS.4 Jasur Kheri	CS.4.1	Station building	Construction of ticket booking office complete in all respects.	0.1%
	CS.4.2	Platform & Passenger amenities		
	CS.4.2.1		Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer's requirements.	1.30%
	CS.4.2.2		Surfacing of platform, Precast coping, tactile tiles, fencing at end platform etc.	1.30%
	CS.4.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.4.2.4		Passenger amenities	0.45%
	CS.4.3	Subway		
	CS.4.3.1		On completion of barrel of RCC box.	2.75%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.4.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.00%
	CS.4.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.25%
	CS.4.4	Water Supply	Water supply works including bore well, pump house, underground & overhead water storage tanks, water supply distribution system.	0.40%
	CS.4.5	Drainage and Sewerage system	On completion of drainage and sewerage system.	0.70%
	CS.4.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platform, platform number boards area and other incidental works in railway station area.	0.35%
	CS.5-Tarakpur	CS.5.1	Station building	Construction of station building complete in all respects.
CS.5.2		Platform & Passenger amenities		
CS.5.2.1			Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer's requirements.	1.80%
CS.5.2.2			Surfacing of platform, Precast coping, tactile tiles, fencing at end platform etc.	1.70%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.5.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.5.2.4		Passenger amenities	0.45%
	CS.5.3	Subway		
	CS.5.3.1		On completion of barrel of RCC box.	3.15%
	CS.5.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.25%
	CS.5.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.25%
	CS.5.4	Water Supply	Water supply works including bore well, pump house, underground & overhead water storage tanks, water supply distribution system	0.50%
	CS.5.5	Drainage and Sewerage	On completion of drainage and sewerage system.	1.00%
	CS.5.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platform, platform number boards and other incidental works in railway station area.	0.35%
CS.7-Badsa	CS.7.1	Station building	Construction of station building and S&T huts complete in all respects.	1.60%
	CS.7.2	Platform & Passenger amenities		

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.7.2.1		Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer's requirements.	1.80%
	CS.7.2.2		Surfacing of platforms, Precast coping, tactile tiles, fencing at end platform etc.	1.50%
	CS.7.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.7.2.4		Passenger amenities	0.45%
	CS.7.3	Subway		
	CS.7.3.1		On completion of barrel of RCC box.	4.30%
	CS7.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.0%
	CS7.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.25%
	CS.7.4	Water Supply		
			On completion of water supply works including bore well, pump house, underground water storage tanks, water supply distribution system	0.50%
	CS.7.5	Drainage and Sewerage system		
			On completion of drainage and sewerage system.	1.00%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.7.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platforms, platform number boards and other incidental works in railway station area.	0.35%
CS.8-Mandothi Jn.	CS.8.1	Station building	Construction of station building, and S&T huts complete in all respects.	1.60%
	CS.8.2	Platform & Passenger amenities		
	CS.8.2.1		Construction of platforms including earthwork in filling above formation level and cast-in-situ platform face wall as per the Employer's requirements.	1.75%
	CS.8.2.2		Surfacing of platforms, Precast coping, tactile tiles, fencing at end platform etc.	1.30%
	CS.8.2.3		PF shelters, Mini PF shelters.	0.65%
	CS.8.2.4		Passenger amenities	0.45%
	CS.8.3	Subway		
	CS.8.3.1		On completion of barrel of RCC box.	4.0%
	CS8.3.2		On completion of stairs & ramp to platforms including retaining wall, shed, portico.	3.25%
	CS.8.3.3		On completion of subway in all respect including flooring, wall cladding, drainage, waterproofing etc.	1.15%

Cost Centre			'CS'- Stations Buildings	
Weightage of Cost Centre 'CS', (X)-			8.50 %	
Sub-Cost Centre	Item of Work		Milestone	Weightage (Y)
	No.	Description		
1	2	3	4	5
	CS.8.4	Water Supply	On completion of water supply works including bore well, pump house, underground water storage tanks, water supply distribution system	0.50%
	CS.8.5	Drainage and Sewerage system	On completion of drainage and sewerage system.	1.00%
	CS.8.6	Miscellaneous works	On completion of misc. works such as station name boards at station building and platforms, platform number boards and other incidental works in railway station area.	0.45%
			Total	100.00%

Notes:

- The value of each Milestones will be total lump sum accepted cost of Works for Schedule 'A' (LS) multiplied by X * Y. For example, the value of Milestone CS1.1-will be equal to $LS * X * Y = LS \times 0.085 \times 0.0114$
- Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Sub Head / Price Schedule.
- Station Building- Unit of measurement is plinth area in square meters. For the buildings having more than one storey, the total area shall be found out by adding the area of each storey. Unit cost shall be determined on pro rata basis with respect to the total area of all stations and service buildings.
 - 50% Payment shall be paid after completion of structural works i.e beam, columns & slab in case of framed structure or walls & slabs in case of other buildings and
 - 30% Payment shall be paid after completion of finishing and
 - 20% Payment on final completion of works in all respects ready for use.
- Platform- Unit of measurement is area measured in square meter. Unit cost shall be determined on pro rata basis with respect to the total area of all platforms at the station.

5. Payment will be made on Completion of each Milestones as per weightage given in this schedule.

6. Variation in 'Station building':

In case of variation in the plinth area of any station building on either side i.e. increase or decrease with respect to the area shown in the Tender Drawings, the total value of station as mentioned in respective Sub-Cost Centres as applicable will get modified accordingly on pro rata basis of plinth area.

6 Schedule 'B': Retaining Wall, Bridges & other Civil works

Schedule 'B' is subdivided into fourteen (14) Sub-Schedules as given below:

SCHEDULE 'B': Bridges, Retaining Wall & other Civil works					
S. No.	Sub Schedule	Description	Item Range	No. of Items	Estimated Amount (INR)
1.	B1	Bridge Works-Steel Super Structure -Open Web Girder (USSOR Based item)	1	1	2,40,84,54,182.99
2.	B2	Reinforcement (USSOR Based items)	2	1	1,31,38,38,686.16
3.	B3	RCC Works (NS item)	3	1	62,81,10,519.60
4.	B4	Bridge Works-Pile foundation (NS items)	4	1	29,56,59,829.52
5.	B5	Bridge Works-Steel Super Structure-Composite Girder (USSOR Based item)	5	1	27,68,52,971.71
6.	B6	Backfill Material (USSOR Based item)	6	1	20,08,52,246.40
7.	B7	Bridge Works-Precast Concrete Blocks(NS item)	7	1	17,42,30,738.10
8.	B8	Cement (USSOR Based items)	8	1	16,68,01,526.62
9.	B9	Formation Works (USSOR Based & NS items)	9 to 12	4	5,42,41,568.20
10.	B10	Bridge Works-Steel Super Structure - Miscellaneous (USSOR Based items)	13 to 14	2	37,14,11,478.20
11.	B11	Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)	15 to 56	42	55,97,73,876.08
12.	B12	Road and Building Works (DSR Based & NS items)	57 to 113	57	48,66,90,974.17
13.	B13	Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)	114 to 129	16	31,19,78,644.13
14.	B14	P Way Works-Ballastless Track, Rails & Special Sleepers](NS items)	130 to 135	6	35,85,30,651.15
Total Estimated Amount of Schedule 'B' (INR)					7,60,74,27,893.03

6.1 Sub-Schedule 'B1': Bridge Works- Steel Super Structure -Open Web Girder (USSOR Based item)

SUB SCHEDULE-B1 Bridge Works-Steel Super Structure -Open Web Girder (USSOR Based item)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
1	041010	<p>Supplying, fabrication, assembling of all types of steel girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions (not requiring traffic block) on sub-structure including provision of trolley refuges etc., complete as per approved QAP and drawings conforming to IRS-B1-2001 and other relevant codes and specifications.</p> <p>Note:</p> <ol style="list-style-type: none"> Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. The item includes fabrication of all types of battens, bracings, ties, stiffeners, packing, diaphragms, shop rivets / welding, T&F bolts, drifts, SAW, templates, jigs, fixtures, accessories, transporting various components from fabrication shop to site including loading & unloading, assembly of girders with drifts/bolts, field riveting /welding /HSFG Bolting, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements and slewing the girder in position, lowering of girder on bearings and bed plates with all temporary arrangements or any other method of launching complete. The bearing sets to be provided with the girders will be paid separately as per relevant item of Sub schedule B13. Payment for addition in weight for rivets / welds shall be made as per clause 45 of IRS B-1-2001. In case of composite work (welding and HSFG bolts), addition in weight shall be 1% for welding and HSFG bolts shall be paid separately under relevant item of Sub scheduleB10. Painting of girders will be paid separately under relevant item of this Sub scheduleB10. Payment Schedule: (i) Receipt of material at plant/workshop against submission of Bank Guarantee: 40% 				

SUB SCHEDULE-B1 Bridge Works-Steel Super Structure -Open Web Girder (USSOR Based item)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
		(ii) Fabrication of girders: 20% (iii) Erection/Launching: 20%(iv) Completion in all respects: 20%				
1a	041012	Open Web Girder Upto 45.7 m Clear Span	8,431	MT	1,63,178.84	1,37,57,60,800.04
1b	041013	Open Web Girder Above 45.7 m Clear Span	5,935	MT	1,74,000.57	1,03,26,93,382.95
Total Estimated Value of SUB SCHEDULE-B1 Bridge Works-Steel Super Structure -Open Web Girder (USSOR Based item)						2,40,84,54,182.99

6.2 Sub-Schedule 'B2'- Reinforcement (USSOR Based items)

SUB SCHEDULE-B2 Reinforcement (USSOR Based items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
2	025070	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete				
2a	025072	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1,64,39,423	Kg	79.92	1,31,38,38,686.16
Total Estimated Value of SUB SCHEDULE-B2 Reinforcement (USSOR Based items)						1,31,38,38,686.16

6.3 Sub-Schedule 'B3': RCC Works (NS Item)

SUB SCHEDULE-B3 RCC Works (NS item)						
S. No.	NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
3	NS-1	<p>Supplying and laying in position M-35 RCC as per approved design mix with admixtures and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all lifts & leads, having continuous agitated mixer, pumping concrete from transit mixer to site of laying, compacting, finishing & curing, with all labour, material, tools, plants, machinery and equipment, taxes, cess etc., as a complete job, but excluding supplying & fixing form work (centring & shuttering), in accordance with the specification and drawings.</p> <p>Note -</p> <p>(i) Cost of cement is included in the above item. (ii) Cost of Reinforcement steel is not included in the above item and will be paid separately under relevant item of Sub-Schedule B2. (iii) Cost of supplying & fixing form work (centring & shuttering) is not included in the above item (except pile cap & open foundation) and will be paid separately under relevant item of Sub-Schedule B11.</p>				
3a	NS-1A	In Pile caps, open foundation & RCC Box/Sub way	44,831	Cum	7,876.40	35,31,06,888.40
3b	NS-1B	In Piers, abutments	7,752	Cum	8,144.57	6,31,36,706.64
3c	NS-1C	Abutment cap & Pier Cap, pedestals, deck slab, Inspection platform, Trolley refuge	7,279	Cum	8,413.40	6,12,41,138.60
3d	NS-1D	Retaining walls, wing walls, return walls, drop walls, curtain walls, Wearing Coat etc. of all heights	18,899	Cum	7,970.04	15,06,25,785.96
Total Estimated Value of SUB SCHEDULE-B3 RCC Works (NS item)						62,81,10,519.60

6.4 Sub-Schedule 'B4': Bridge Works-Pile foundation (NS items)

SUB SCHEDULE-B4 Bridge Works-Pile foundation (NS items)						
S. No.	NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
4	NS-2	<p>Providing, Boring suitable diameter piles using Hydraulic Rig in all kinds of strata including boulder studded soil, underground structure like channel, sewer manholes, old foundation or any other obstruction, irrespective of sub-soil water level in all conditions whether dry or under water, shoe and temporary casing pipe, if required, with contractor plant, machinery & equipment for pile boring, use of bentonite slurry including all operations, cleaning of bore holes, supplying and laying in-situ with tremie pipe M-35 RCC in piles as per approved design mix with admixtures and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all lifts & leads, having continuous agitated mixer, pumping concrete from transit mixer to site of laying including supplying & fixing form work (centering & shuttering), compacting, finishing, curing, chipping off pile top to remove laitance concrete above cut off level, removal and disposal of surplus excavated earth/debris/muck outside ROW including all lead, lift, ascends, descends, loading, unloading handling, re-handling, crossing of stream, nallahs, railway track, level crossing etc. with all labour, material, tools, plants, machinery and equipment, taxes, cess etc. as a complete job in accordance with the Specification and the Drawings.</p> <p>Note -</p> <p>i. Cost of cement is included in the above item. ii. Cost of Reinforcement steel is not included in the above item and will be paid separately under relevant item of Sub-schedule-B2. iii. Cost of temporary casing pipe is included in the above item. However, the cost of permanent casing pipe is not included in this item and shall be paid separately under relevant item of Sub-schedule-B13, if required and approved by the Engineer. iv. Rate for using higher diameter piles shall be worked out from the rate of 1200 mm diameter pile in proportion to the area of piles.</p>				

SUB SCHEDULE-B4 Bridge Works-Pile foundation (NS items)						
S. No.	NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
4a	NS-2A	1200 mm diameter	23,268	Rmt	12,571.64	29,25,16,919.52
4b	NS-2B	600 mm diameter	1,000	Rmt	3,142.91	31,42,910.00
Total Estimated Value of SUB SCHEDULE-B4 Bridge Works-Pile foundation (NS items)						29,56,59,829.52

6.5 Sub-Schedule 'B5': Bridge Works-Steel Super Structure – Composite Girder (USSOR Based item)

SUB SCHEDULE-B5 Bridge Works-Steel Super Structure- Composite Girder (USSOR Based item)						
S. No.	USSOR Item No	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
5	041020	<p>Supplying, fabrication, assembling of all types of steel Composite girders of specified spans with structural steel conforming to Quality "B0" Grade Designation E250 conforming to IS:2062, erection / slewing / end launching of steel girders with cranes or any other approved launching methods as per site conditions on sub-structure including provision of stud bolts / shear connectors, complete as per approved QAP and drawings conforming to IRS- B1-2001 and other relevant codes and specifications.</p> <p>Note:</p> <ol style="list-style-type: none"> Detailed fabrication and erection drawings & launching methodology will be prepared by the contractor and got approved from Railway. Rate includes fabrication of all types of battens, bracings, ties, stiffeners, packing, diaphragms, shop rivets / welding, T&F bolts, drifts, SAW, templates, jigs, fixtures, accessories, transporting various components from fabrication shop to site including loading & unloading, assembly of girders with drifts/bolts, field riveting /welding /HSFG Bolting, assembling of temporary support for side slewing, raising of girders to the bed block level, providing sliding arrangements and slewing the girder in position, lowering of girder on bearings and bed plates with all temporary arrangements or any other method of launching complete. The bearing sets to be provided with the girders will be paid separately as per relevant item of Sub schedule B13. Payment for addition in weight for rivets / welds shall be made as per clause 45 of IRS B-1-2001. In case of composite work (welding and HSFG bolts), addition in 				

SUB SCHEDULE-B5 Bridge Works-Steel Super Structure- Composite Girder (USSOR Based item)						
S. No.	USSOR Item No	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
		weight shall be 1% for welding and HSFG bolts shall be paid separately under relevant item of Sub schedule B10. 6. Painting of girders will be paid separately under relevant item of Sub schedule B10. 7. Payment Schedule: (i) Receipt of material at plant/workshop against submission of Bank Guarantee: 40% (ii) Fabrication of girders: 20% (iii) Erection/Launching: 20% (iv) Completion in all respects: 20%				
5a	041021	Composite steel girder of span length up to 36.0m	2,029	MT	1,36,447.99	27,68,52,971.71
Total Estimated Value of SUB SCHEDULE-B5 Bridge Works-Steel Super Structure- Composite Girder (USSOR Based item)						27,68,52,971.71

6.6 Sub-Schedule 'B6': Backfill Material (USSOR Based item)

SUB SCHEDULE-B6 Backfill Material (USSOR Based item)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
6	051170	Providing and laying of filter media consisting of granular materials of GW, GP, SW groups as per IS:1498 (latest) in required profile behind boulder filling of abutments, wing walls / return walls etc. above bed level with all labour and material complete job as per drawing and technical specification of RDSO Guidelines.	90,120	Cum	2,228.72	20,08,52,246.40
Total Estimated Value of SUB SCHEDULE-B6 Backfill Material (USSOR Based item)						20,08,52,246.40

6.7 Sub-Schedule 'B7': Bridge Works-Precast Concrete Blocks (NS item)

SUB SCHEDULE-B7 Bridge Works-Precast Concrete Blocks (NS item)						
S. No.	USSOR/ NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
7	NS-3	<p>Casting, supplying and installation of Pre-cast cement concrete blocks of size 25X25 X20cm. or of required size as directed by the Engineer for protective works at bridges & banks like pitching, toe wall, flooring, drains etc. using M20 design concrete mix with 20mm aggregate size including Contractor's shuttering, leading to bridge site from casting depot, including dressing and levelling of surface, providing gravel backing, laying & jointing blocks with cement mortar 1:3 with Contractor's labour and as directed by Engineer-in-charge (All labour and materials including cement by Contractor).</p> <p>Note: i) Payment for gravel backing will be paid under relevant item of Sub schedule B11. ii) 60% Payment shall be made after casting of pre-cast concrete blocks and bringing at work site. The balance 40% will be made on completion of laying and finishing. iii) Measurement is based on quantity calculation of blocks used only (no of blocks x volume of one block).</p>	27,723	Cum	6,284.70	17,42,30,738.10
Total Estimated Value of SUB SCHEDULE-B7 Bridge Works-Precast Concrete Blocks (NS item)						17,42,30,738.10

6.8 Sub-Schedule 'B8': Cement (USSOR Based items)

SUB SCHEDULE-B8 Cement (USSOR Based items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
8	025060	Supply and using Cement at Worksite				
8a	025062	Ordinary Portland Cement 53 grade	1,654	MT	8,773.81	1,45,11,881.74
8b	025063	Pozzolana Portland Cement	19,464	MT	7,824.17	15,22,89,644.88
Total Estimated Value of SUB SCHEDULE-B8 Cement (USSOR Based items)						16,68,01,526.62

6.9 Sub-Schedule ‘B9’: Formation Works (USSOR Based & NS items)

SUB SCHEDULE-B9 Formation Works (USSOR Based & NS items)						
S.NO.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
9	011010	Earthwork in cutting (classified) in formation, trolley refuges, side drains, level crossing approaches, platforms, catch water drains, diversion of nallah & finishing to required dimension and slopes to obtain a neat appearance to standard profile inclusive of all labour, machine & materials and removing & leading all cut spoils either to make spoil dumps beyond 10m from cutting edge or for filling in embankment with leads within 2 km on either side of cutting edge, lifts, ascent, descent, loading, unloading, all taxes / royalty, clearance of site and all incidental charges, bailing & pumping out water, if required, etc. complete as per directions of the Engineer-in-Charge. The work is to be executed as per latest / updated edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow. Cut trees shall be property of HRIDC and to be deposited in the Employers' godown unless specified otherwise in the Special Conditions of Contract. {Note - (i) All usable earth arising from cut spoils shall be led into bank formation and Unusable spoils shall be dumped / stacked (ii) All hard rock /and boulders not fit for filling will be stacked by the contractor and will be property of HRIDC.}				
9a	011011	In all conditions and classifications of soil except rock	2,000	Cum	189.83	3,79,660.00
10	013050	Turfing / planting, including all lead & lift and watering as required until properly rooted with. Note - Initially payment of only 40% will be made. Balance 60% will be paid only after 3 months of maintenance period, if the turfing is properly rooted.				
10a	013053	Planting Sarkanda / sarpat or any other suitable species approved by the engineer	120	100 sqm	8,014.86	9,61,783.20

SUB SCHEDULE-B9 Formation Works (USSOR Based & NS items)						
S.NO.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
11	NS-4	Earthwork in embankment for 32.5t axle load and as per RDSO specification No. RDSO/2020/GE:004 September 2020 "Comprehensive Guidelines and Specification for Railway Formation" with contractor's own earth from borrow areas including all lead, lift, ascent, descent, royalty, taxes, cess, compensation, crossing of nallahs /stream and other obstructions including mechanical compaction in layers with watering, handling, re-handling, dressing of banks to the final profile with all labour, material, tools, plant, machinery and equipment, taxes, cess etc. as a complete job in accordance with the specification and drawings. Note: 10% of payment shall be withheld till the slopes are dressed to the required profile and compacted mechanically with vibratory rollers as per RDSO guidelines.	1,00,000	Cum	339.66	3,39,66,000.00
12	NS-5	Supplying and laying blanketing material produced through mechanical means using crushers and pug mill for 32.5 T axle load as per RDSO specification No. RDSO/2020/GE:004 September 2020 "Comprehensive Guidelines and Specification for Railway Formation" over the top of subgrade including all lead, lift, ascent, descent, royalty, taxes, cess, crossing of nallahs /stream and other obstructions including mechanical compaction in layers not exceeding 200 mm thick with vibratory rollers, watering, handling, re-handling and dressing of formation to the final profile with all labour, material, tools, plants, machinery and equipment, taxes, cess, etc. as a complete job in accordance with the specification and drawings. Note: 10% of payment shall be withheld till the slopes are dressed to the required profile and compacted mechanically with vibratory rollers as per RDSO guidelines.	7,500	Cum	2,524.55	1,89,34,125.00
Total Estimated Value of SUB SCHEDULE-B9 Formation Works (USSOR Based & NS items)						5,42,41,568.20

6.10 Sub-Schedule 'B10': Bridge Works-Steel Super Structure -Miscellaneous (USSOR Based items)

SUB SCHEDULE-B10 Bridge Works-Steel Super Structure -Miscellaneous (USSOR Based items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
13	041030	Supplying and fixing HSFG bolts of any dia. and any length with suitable nuts including DTI washers conforming to IRS-B1-2001 for bridges and steel structures with contractors labour, tools and plants and lead and lift etc., complete.	6,56,600	Kg	308.27	20,24,10,082.00
14	041050	Metalizing of steel work of girders with sprayed aluminium after surface preparation by Sand/gritblasting, followed by one coat of etch primer (IS:5666) & one coat of Zinc Chrome primer (IS:104)and two coats of aluminium paint (IS:2339) with all labour, T&P and material as a complete job duly conforming to all relevant specifications and process given under Clause 39 of IRS-B1-2001. Note: Nominal Thickness of Aluminium coating shall be 150 microns. DFT of Zinc chrome primer shall be 25-30 microns and DFT of each coat of Aluminium paint shall be 12-14 microns.	1,97,540	Sqm	855.53	16,90,01,396.20
Total Estimated Value of SUB SCHEDULE-B10 Bridge Works-Steel Super Structure -Miscellaneous (USSOR Based items)						37,14,11,478.20

6.11 Sub-Schedule 'B11': Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
15	013130	Shoring with 'Z' section MS sheet piles side by side in all kinds of soil mechanically or manually as per approved drawing with contractor's own arrangement complete in all respects and removal of sheet piles after completion of the work as directed by engineer in-charge. {Note - Payment will be made as per actual driven length of pile}	2,000	Sqm	949.17	18,98,340.00
16	014020	Supplying and laying of drainage composite for use behind abutments, wing walls, return walls and retaining walls geo composite drain (vertical) as per RDSO Specification No-RDSO/2018/GE: IRS-0006 Latest version with all material, labour ,equipment, tools and plants, lead, lift etc. complete in all respects as per the direction of engineer-in-charge.	6,679	Sqm	781.83	52,21,842.57
17	022010	Earthwork in excavation by mechanical means (Hydraulic Excavator)/Manual Means for foundations and floors of the bridges, retaining walls etc. including setting out, dressing of sides, ramming of bottom, getting out the excavated material, back filling in layers with approved material and consolidation of the layers by ramming and watering etc. including all lift, disposal of surplus soil upto a lead of 300m, all types of shoring and strutting with all labour and material complete as per drawing and technical specification as directed by Engineer. Note: This item will be used for excavation work in connection with other miscellaneous works also like side drains, foundation for OHE masts and other miscellaneous structures in connection with Gauge Conversion, Doubling, New lines.				
17a	022011	All kinds of soils	1,25,998	Cum	244.24	3,07,73,751.52

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
18	022040	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (M-20 Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in RCC raft foundation & Pile cap including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability & other properties without impairing strength and durability complete as per specifications and direction of the Engineer in charge. Payment for cement, reinforcement and shuttering shall be paid extra. Note -Cement concrete in drainage and other miscellaneous works shall be paid under this item.	23,257	Cum	3,467.83	8,06,51,322.31
19	022070	Providing and fixing Weep Holes in Abutments, RCC Box, Wing walls and Return walls etc. ,of new bridges with 110mm dia UPVC pipe (IS :13592) Type A ISI marked with all contractor's men, material, transportation, all taxes as per specifications and as directed by Engineer-in-Charge.	16,175	Meter	266.07	43,03,682.25
20	022120	Conducting load testing of a single pile upto following capacity in accordance with IS:2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. with all labour, material, tool & plants, equipment, machinery, etc. complete as per drawing and specification, as directed by the Engineer.				
20a	022123	Initial load test above 100 ton capacity upto 250 ton capacity pile	11	Each	1,00,898.78	11,09,886.58
20b	022124	Extra for every increase of 50 ton in pile capacity or part thereof over 250 ton	132	Each	9,934.48	13,11,351.36
20c	022127	Routine Load Test above 100 ton capacity upto 250 ton capacity pile	26	Each	67,815.53	17,63,203.78

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
21	022130	Lateral load testing of single pile in accordance with "IS Code of practice IS:2911 (Part-IV) for determining safe allowable lateral load of pile" with all labour, material, tool & plants, equipment, machinery, etc complete as per drawing and specification as directed by the Engineer				
21a	022131	Piles with lateral load capacity of upto 50 ton	11	Each	25,214.65	2,77,361.15
22	022140	Pulse Echo Test (PET) for integrity testing of piles with contractor's men, materials and machines. The rate includes cost of Inspection of site, preparation of pile head and any other unforeseen cost required for the test, submission of reports in triplicate as per satisfaction of the Engineer in Charge at site.	572	Each	3,597.92	20,58,010.24
23	023010	Earth work in OPEN excavation in foundation of bridges, for placing of well curbs of all shapes and designs in all kinds of soil including taking out the excavated soil, levelling, ramming of bottom of excavation and trimming of sides, returning the soil in layers, consolidation, disposal of surplus soil within a lead of 300m, including all lift, dewatering, shoring and strutting complete as per technical specification and as directed by Engineer in charge. (compaction of surplus soil when led to the bank will be paid as per relevant item separately)	9,375	Cum	269.67	25,28,156.25
24	023040	Dry/Wet Sinking of Circular Wells (Other than pneumatic method) in all types of strata except hard rock requiring ballasting, including bailing and pumping out water, removal of excavated soil with all labour and material required for sinking as per drawing and direction of the Engineer in charge, disposal of surplus soil in the adjoining bank/embankment (compaction to be paid separately under the relevant item).				
24a	023041	From initial level of cutting edge & upto 3m depth	4,578	Cum	201.16	9,20,910.48

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
24b	023042	Above 3m to 10m depth	10,682	Cum	303.34	32,40,277.88
24c	023043	Above 10m to 15m depth	7,630	Cum	440.08	33,57,810.40
24d	023044	Above 15m to 20m depth	7,630	Cum	519.93	39,67,065.90
24e	023045	Above 20m to 25m depth	7,630	Cum	946.29	72,20,192.70
24f	023046	Above 25m to 30m depth	100	Cum	1,175.63	1,17,563.00
25	023090	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade (Cast in-Situ) using 20mm graded crushed stone aggregate and coarse sand of approved quality in the following elements of well including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability & other properties without impairing strength and durability complete as per drawings and technical specifications as directed by Engineer. Payment for cement, reinforcement and shuttering shall be made extra.				
25a	023091	In well Curb	1,633	Cum	3,644.34	59,51,207.22
25b	023092	In Steining of wells	19,217	Cum	3,644.34	7,00,33,281.78
25c	023093	In Bottom plug for wells including arrangements for placing concrete under water with tremie or bottom opening skips.	7,536	Cum	4,106.27	3,09,44,850.72
25d	023095	In Intermediate/Top plug with internal shuttering	1,402	Cum	4,404.03	61,74,450.06
25e	023096	In Well cap and corbel, if provided	4,195	Cum	4,404.03	1,84,74,905.85

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
26	023100	Supplying and filling ordinary sand in between bottom plug and top plug in wells including all lead lift handling, re-handling, as a complete job. Sand should be simultaneously filled with water for three days to achieve full compaction so that further chances of shrinkage due to voids are eliminated.				
26a	023102	Using sand from other than River bed (This item is to be operated if suitable sand is not available in River Bed for filling)	18,463	Cum	1,957.10	3,61,33,937.30
27	025020	Providing and applying two coats of coal tar or bitumen conforming to IS:3117- latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer	16,386	Sqm	189.09	30,98,428.74
28	025030	centering and shuttering including strutting, propping etc. and removal of form for:				
28a	025032	All types of bridge super-structures, e.g. slabs, I-girders, T-girders, Box girders etc. upto 5m above ground level	11,370	Sqm	956.74	1,08,78,133.80
28b	025033	Extra for additional height over item no. 025032 wherever required with adequate bracing, propping etc. over initial height of 5 metres for every additional height of 1 metre or part thereof	30,330	Sqm	120.53	36,55,674.90

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
29	031020	Providing and laying in position machine batched, machine mixed and machine vibrated Design Mix Cement Concrete of specified grade using 20mm graded crushed stone aggregate and coarse sand of approved quality for the Precast Prestressed (Post tensioned) concrete girder/Box (spans upto 30.5m) in contractor's casting yard, including finishing, using Admixtures in approved proportions (as per IS:9103), to modify workability & other properties without impairing strength and durability, complete as per drawings, specifications and direction of the Engineer. Payment for Shuttering, Cement, reinforcement, HTS cables, anchorage cones, stressing of cables and grouting of the ducts will be done extra. Launching of girder/slab in position is not included in this item.	211	Cum	3,132.26	6,60,906.86
29a	031021	Deduct from 0310220 for casting of Slab in place of Girder/Box	211	Cum	98.20	20,719.16
30	031040	Providing, fabricating & fixing in position to exact design profiles, prestressing H.T.S. cables of all classification made from Low Relaxation strands conforming to IS:14268- latest version in Prestressed (Post tensioned) Concrete girders/slabs etc. including supplying, cutting, making into cables with necessary spacers, colour coding, protecting with water soluble oil at all time, anchoring of cables, supplying and placing spiral corrugated type galvanized metal steel ducts sheathing made up of Cold Rolled Cold Annealed (CRCA) mild steel conforming to IS:513 of required diameter/ thickness, vent pipe, placing, bending, routing, fixing, stressing & grouting of cable ducts with cement grout, Anchorage sets in required number with provision for future prestressing if any including all lead and lift with contractor's own materials, labour, equipments etc. complete as per drawings & specifications. Rate also includes covering anchorage pads with epoxy mortar of approved quality to avoid corrosion. Cement for grouting to be paid separately. Payment shall be made in terms of weight of HTS cables as per drawing.	10	MT	2,01,096.11	20,10,961.10

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
31	031060	Extra for Using HDPE Sheathing in place of CRCA Sheathing	1,102	Meter	164.83	1,81,642.66
32	031110	Load testing of one and more span of bridge as selected by the engineer as per approved load test procedure following relevant IS/IRC/Railway code with contractor's labour, deflection measuring instruments, loading material, recording and analyzing the load testing results including all lead and lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finish and girder is cleared of the Kentledges/loading material etc. The load shall be 1.25 times the stipulated design load.				
32a	031111	For Span design load upto 100 MT	93	Each	93,641.49	87,08,658.17
32b	031112	Extra for every increase 1 MT for part there of in the span design load capacity upto 800 MT	7,430	MT	924.60	68,69,755.16
33	031140	Providing and fixing in position GI Drainage Spouts of required length with Grating in RCC slab and filling bitumen along kerb as shown in drawing with contractor's pipes, bitumen, tools, equipment, lead, lifts etc. complete as per specifications and as directed by Engineer in-charge				
33a	031142	100mm dia. Drainage Spouts	643	Meter	1,314.51	8,45,229.93
34	041240	Surface preparation for painting of bridge plate/composite girders and other steel structures where the finishing coat shows signs of deterioration; but primer coat of paint is sufficiently in good condition and there are no signs of rusting etc. Surface shall be cleaned free from oil grease, scaling and other foreign matters without disturbing the primer coat {Rate includes cost of labour, consumables, tools & plants, scaffolding, jhoola, ladder etc.}	12,480	Sqm	27.91	3,48,316.80
35	041260	Painting cleaned bridge plate/composite girders including all scaffolding, shuttering and strutting along with provision of Jhoola / hanging scaffolding ladders etc. where required				

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
35a	041261	With one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30 Microns followed by one coat of Zinc Chromate red oxide conforming to IS:2074 DFT of 25 Microns	12,480	Sqm	105.27	13,13,769.60
36	041270	Painting cleaned bridge triangulated girders including all scaffolding, shuttering and strutting along with provision of Jhoola / hanging scaffolding ladder where required				
36a	041273	With two coats Aluminium paint in dual containers conforming to IS:2339 with DFT of 12-14 Microns for each coat.	32,490	Sqm	119.37	38,78,303.14
37	041330	Launching & fixing in specified Bridge location all types of Steel Plate girders / PSC girders / Slabs including loading/unloading and transport to the site of launching with a lead of five kilometres & lifting to any height as per site requirement, provision of approaches for leading, cleaning of bed block and minor repairs to bed block with epoxy if required, as directed by Engineer in charge with all labour, tools and plant, equipment etc., complete				
37a	041331	PSC girders / slabs	532	MT	5,782.36	30,76,215.52
38	051010	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 35 kg each with voids filled with spalls complete as per drawing and Technical Specification	59	Cum	1,547.47	91,300.73
39	051120	Stenciling of Girders with black / blue lettering over yellow background with ready mix paint w.r.t. details of executed inspection, greasing and painting, other details as directed by Engineer incharge	1,740	Each	44.92	78,160.80
40	052220	Painting the HFL mark and Danger level mark, year of HFL on bridge abutments and piers with ready mixed paint as per standard in two coats over one coat of primer with all materials, labour, tools, scaffolding, all lead and lift etc. including writing complete	621	Each	310.36	1,92,733.56

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
41	052230	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	42	Each	876.37	36,807.54
42	052240	Providing cast in-situ plaques for bridge foundations details of size 45cmx45cmx5cm in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm deep notch over abutment & piers, engraving the letters & figures with CM 1:3 and finished smooth including painting letters and figures with 2 coats of black enamel and plaque with white enamel with all labour, tools, cement, paint, curing etc. as a complete job.	69	Each	1,147.68	79,189.92
43	052250	Providing & laying non pressure NP-4 Class RCC pipe with collars, jointing with 1:2 cement and ordinary sand mortar including testing of joints, but excluding earthwork with all labour and material as a complete job. Cement for mortar will be paid separately. (Pipes of 600mm dia and above will be laid using crane/hydra).				
43a	052252	450mm dia.	100	Meter	2,853.03	2,85,303.00
44	052260	Supplying, spreading and filling coarse sand (no cohesive materials to be used) of approved quality including watering and ramming in foundation, plinth, behind the abutment, wing wall, retaining wall in layers not exceeding 150mm thick including its compaction as per direction of Engineer-in-charge. The rate includes all lead, lift, ascent, descent, crossing of Railway line etc. complete with contractor's labour, materials, tools and plant.	24,262	Cum	2,070.65	5,02,38,110.30

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
45	191310	Fabrication, supplying and fixing 600mm x 450mm Bridge Board made from 16 SWG MS Sheet duly welded or rivited to back support of two 600mm long horizontal angles of size 25mm x 25mm x 3mm & two 2.5 metre long vertical support of MS Angle of size 50mm x 50mm x 5mm, welded /rivited to board. Vertical supports shall have split ends for proper fixing in ground. Vertical supports of board shall be embedded in ground in M 20 Cement Concrete blocks of size 300mm x300mm x 300mm, complete job including painting & writing of subject matter on bridge board, as directed by Engineer - Incharge {Note : Excavation & concrete work will be paid separately under Sub Schedule-B12}	42	Each	2,810.77	1,18,052.34
46	195030	Centring and shuttering including strutting, propping etc. and removal of form for :				
46a	195032	Abutment, pier, wing walls and return walls	26,080	Sqm	385.67	1,00,58,273.60
46b	195033	Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wal etc.	9,801	Sqm	374.32	36,68,710.32
46c	195034	Approach slab at formation level, Dirt wall/ ballast wall at formation level	2,358	Sqm	243.27	5,73,630.66
46d	195038	In Bottom/top slab & side walls of RCC Box , toe wall and sumps haunch filling head walls,,In well Kerb & Steining or any other component	82,699	Sqm	385.67	3,18,94,523.33
47	NS-6	Supplying and laying of 150mm thick well graded stones aggregate/gravel as base layer over the slopes of embankment with manual dressing with water compaction including the cost of supply of all material, labour, lead, lift, tools, plants, crossing of tracks etc. complete as per approved drawings and technical specifications.	20,792	Cum	1,122.86	2,33,46,505.12

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
48	NS-7	Providing Boulder Backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles not less than 15cm in any direction & not less than 15kg (except smaller boulders required for filling voids) including all lead, lift, labour & other incidental charges as complete work in all respect. Cost of boulder/cobbles is included in this item.	17,019	Cum	1,249.85	2,12,71,197.15
49	NS-8	Providing and fixing of 75mm dia PVC pipe for weep holes in abutments, Wing Wall, Return Wall, Face wall, retaining wall etc. at suitable intervals as directed by the Engineer-in-charge.	1,500	Meter	232.42	3,48,630.00
	NS-9A	<p>Manufacturing, transportation (including loading & unloading) and installation in position (including joining and grouting) M-35 or higher grade precast reinforced cement concrete segmental Platform fencing as shown in the drawing and as per the directions of the Engineer. precast reinforced cement concrete segmental Platform fencing shall be factory-made, and steam cured in a controlled environment with arrangements for handling/transportation. Dimensional tolerances shall be as per IS: 6408 (part 2) for PC Class 6.</p> <p>Note:-</p> <p>1. This item includes cost of cement, all the materials, labour, machinery, tools & plant etc. complete required for manufacture of precast segments except Steel Reinforcement which shall be paid separately under Sub schedule B2.</p> <p>2. Excavation of soil for foundation shall be paid separately under relevant item of this Sub Schedule.</p> <p>3. Payment of M20 concrete used for fixing of Precast RCC Posts shall be made under relevant item of Sub Schedule B11.</p> <p>4. 60% of the rate shall be paid on receipt of the precast retaining wall segments at site and balance 40% will be paid on fixing the same in position in satisfactory condition.</p>	150	Cum	27,828.74	41,74,311.00

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
51	NS-9B	Manufacturing, transportation (including loading & unloading) and installation in position (including joining and grouting) M-35 or higher grade precast reinforced cement concrete U-shaped drain/duct with cover as per the directions of the Engineer. Precast reinforced U-shaped drain shall be factory-made, and steam cured in a controlled environment with inserts for handling/transportation. Dimensional tolerances shall be as per IS: 6408 (part 2) for PC Class 6. Note:-1. This item includes cost of all the materials, labour, machinery, tools & plant etc. complete required for manufacture of precast segments except Steel Reinforcement which shall be paid separately under relevant item of Sub schedule B2.2. Excavation of soil for foundation shall be paid separately under relevant item of this Sub Schedule. 3. Before placing of wall segments, 20 mm thick stiff 1:3 cement mortar bedding layer shall be laid over a levelling course of 50 mm thick of M20 concrete. Payment for M20 concrete shall be made under relevant item of Sub Schedule B11 and for mortar under relevant item of Sub-Schedule- B12.4. 60% of the rate shall be paid on receipt of the precast retaining wall segments at site and balance 40% will be paid on fixing the same in position in satisfactory condition.	748	Cum	27,706.00	2,07,24,088.00
52	NS-9C	Manufacturing, Supplying & Fixing of Pre Fabricated RCC Coping Stone of Size 530mm x 1125mm x 100mm thick as per top face designed and approved by site engineer with M-30 Grade RCC with 8mm dia tor steel at 150mm c/c both ways and manufactured by vibro compaction process using jointless FRP/GRP Steel moulds of required size and shape & design. Note- The item includes cost of cement, reinforcement, transportation etc. under layer cement mortar of 1:3 cement mortar to be laid as per site condition & should be paid separately under relevant item of Sub-Schedule.	8264	Each	1,443.30	1,19,27,398.79

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
53	NS-10	Designing, Providing and erection of specified grade precast RCC Facia Panel of thickness 180 mm made with M-35 Grade Concrete Batching plant, Transit Mixer, Concrete Pump and Vibrator for retaining earth with all element and accessories including reinforcing element complete as per approval drawing and Section 3100 of MORT&H specification including all material labour machinery etc. (Scope of work including designing, getting approval, casting in yad, curing, storing, Transporting, lifting, placing in position, erection with all necessaries fasteners etc complete).The cost of cement & steel are included in this item & no separate payment shall be paid whatsoever. The rate also include cost for excavation, foundation, reinforcing element, fasteners , drainage layer, drain pipe, coping beam and other accessories for which nothing extra shall be paid.Mode of Payment:1- Casting of RE Panel : 60%2- Erection & fixing : 35 %3- Final Bill: 5%	2000	Sqm	6,221.56	1,24,43,120.00
54	NS-11	Providing Placing & Compacting to desired density approved backfill material in layers as per approved methodology including testing of reinforced fill portion in approaches between reinforced soil (RS) wall panels as per approved drawing as per Section 3103 of MORT&H Specification. The soil should be predominantly coarse grained, Not more than 10 % of particles should pass 75 micron sieve. The item shall be measured and paid for the finished volume of backfill and subgrade placed in position excluding the volume of filter media at base and behind the RS RE Wall	6300	Cum	382.70	24,11,010.00

SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						
S. No.	USSOR Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
55	NS-12	Providing & constructing of RCC Crash Barrier of M35 at the edge of road , approaches to bridge structures and medians, constructed with specified grade of concrete using batching plant , transit mixer, concrete pump and vibrator with 450 mm long at expansion joint filled with premolded asphalt filler board, keyed to the structure on which it is built and installed as per design and dimension in the approved drawing and at location directed by the engineer, all as specific as per Section 809 of MORT&H Specification including all material labour, scaffolding etc.	180	Cum	7,172.53	12,91,055.40
56	NS-12 A	Integrity Pile test using cross hole sonic logging as per the provision of ASTM standard D6760, as per drawings & technical specifications.	100	Nos.	5,831.26	5,83,126.00
Total Estimated Value of SUB SCHEDULE-B11 Well foundation, Concrete Superstructure, RE wall & Other miscellaneous Works (USSOR Based & NS items)						55,97,73,876.08

6.12 Sub-Schedule 'B12': Road and Building Works (DSR Based & NS items)

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
57	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	292	Cum	2,289.61	6,68,566.12
58	3.8	1:3 (1 Cement : 3 coarse sand (zone-III)) cement sand levelling mortar. Item will be used as below precast item. Note:- cost of cement is included in the item.	71	Cum	5,322.68	3,77,910.28
59	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	528	Sqm	722.15	3,81,295.20
60	4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete				
60a	4.6.1	1:1½:3 (1 Cement: 1½ coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	20	Cum	8,613.76	1,72,275.20
61	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level				
61a	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources)	122	Cum	8,861.18	10,81,063.96

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
62	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	136	Cum	11,356.22	15,44,445.92
63	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
63a	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	1,100	Sqm	326.25	3,58,875.00
63b	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	1,000	Sqm	709.33	7,09,330.00
63c	5.9.3	Suspended floors, roofs, landings, balconies and access platform	5,000	Sqm	812.10	40,60,500.00
63d	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	2,580	Sqm	644.50	16,62,810.00
63e	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	1,480	Sqm	852.04	12,61,019.20
63f	5.9.19	Weather shade, Chajjas, corbels etc., including edges	780	Sqm	863.37	6,73,428.60

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
64	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note:- Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement				
64a	5.33.1	All works upto plinth level				
64aa	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	282	Cum	9,199.77	25,94,335.14
64b	5.33.2	All works above plinth level upto floor V level				
64ba	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	776	Cum	10,918.57	84,72,810.32
65	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
65a	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	88	Cum	7,053.87	6,20,740.56
66	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
66a	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	991	Cum	8,780.88	87,01,852.08
67	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete	170	Sqm	1,126.64	1,91,528.80
68	9.7.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick: Float glass panes				
68a	9.7.7.1	4 mm thick glass pane (weight not less than 10kg/sqm).	134	Sqm	2,009.82	2,69,315.88
69	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
69a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	928	Sqm	2,135.52	19,81,762.56
70	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
70a	9.48.1	Fixed to steel windows by welding	600	Kg	191.75	1,15,050.00

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
71	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete	22	Each	1,086.59	23,904.98
72	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete				
72a	9.96.1	300x16 mm	72	Each	275.82	19,859.04
73	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete				
73a	9.97.1	300x10 mm	76	Each	124.64	9,472.64
73b	9.97.4	150x10 mm	20	Each	77.34	1,546.80
74	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete				
74a	9.100.1	125 mm	108	Each	63.62	6,870.96
75	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete				
75a	9.101.2	Twin rubber stopper	42	Each	65.95	2,769.90

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
76	10.13	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer				
76a	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	1,200	Kg	121.46	1,45,752.00
77	10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:				
77a	10.14.1	Profile B				
77aa	10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb	500	Meter	470.91	2,35,455.00
78	10.17	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete	48	Each	196.20	9,417.60
79	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required				
79a	10.25.2	in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	20,888	Kg	150.76	31,49,074.88

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
80	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer				
80a	10.26.1	M.S. tube	404	Kg	166.49	67,261.96
80b	10.26.3	G.I. pipes	468	Kg	190.91	89,345.88
81	10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete				
81a	10.29.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	240	Sqm	775.71	1,86,170.40
82	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand)				
82a	11.20.1	Light shade pigment using white cement	1,200	Sqm	1,306.32	15,67,584.00
83	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge				
83a	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
83aa	11.21.1.1	Acid and alkali resistant tile	320	Sqm	1,605.50	5,13,760.00
83b	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
83ba	11.21.2.1	Acid and alkali resistant tile	380	Sqm	1,735.01	6,59,303.80
84	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	1,200	Sqm	2,159.68	25,91,616.00
85	11.38	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete	120	Sqm	1,172.83	1,40,739.60
86	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete				
86a	11.41.2	Size of Tile 600x600 mm	1,462	Sqm	1,500.82	21,94,198.84
87	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
87a	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	200	Sqm	2,743.79	5,48,758.00
88	13.1	12 mm cement plaster of mix				
88a	13.1.2	1:6 (1 cement: 6 fine sand)	7,400	Sqm	298.76	22,10,824.00
89	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix				
89a	13.2.2	1:6 (1 cement: 6 fine sand)	2,840	Sqm	343.57	9,75,738.80
90	13.16	6 mm cement plaster of mix				
90a	13.16.1	1:3 (1 cement : 3 fine sand)	2,720	Sqm	268.09	7,29,204.80
91	13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification				
91a	13.42.1	Two or more coats on new work	5,360	Sqm	98.26	5,26,673.60
92	13.45	Finishing walls with textured exterior paint of required shade				
92a	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	2,840	Sqm	259.56	7,37,150.40
93	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
93a	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	3,600	Sqm	172.00	6,19,200.00
94	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
94a	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	448	Sqm	153.51	68,772.48
94b	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	1,060	Sqm	148.37	1,57,272.20
95	13.50	Applying priming coat:				
95a	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	508	Sqm	65.10	33,070.80
96	13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade				
96a	13.60.1	Two or more coats on new work	4,340	Sqm	146.04	6,33,813.60
97	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				
97a	13.61.1	Two or more coats on new work	1,222	Sqm	139.26	1,70,175.72
98	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	13,360	Sqm	131.21	17,52,965.60

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
99	16.54	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge				
99a	16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	429	Cum	10,608.27	45,50,947.83
100	16.57	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge				
100a	16.57.1	40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity	227	Cum	11,516.67	26,14,284.09

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
101	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge)	2,614	Cum	9,125.35	2,38,53,664.90
102	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).	13,763	Cum	8,769.39	12,06,93,114.57
103	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge				
103a	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	13,470	Cum	2,940.57	3,96,09,477.90

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
104	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	11,250	Cum	2,970.24	3,34,15,200.00
105	16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineerin- charge	17,589	Cum	4,375.98	7,69,69,112.22
106	16.90	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge	2,000	Sqm	1,821.14	36,42,280.00

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
107	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.				
107a	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	200	Sqm	987.75	1,97,550.00
107b	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	4,500	Sqm	1,071.28	48,20,760.00
108	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :				
108a	19.1.2	150 mm diameter	108	RMT	626.54	67,666.32
109	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
109a	19.6.5	450 mm dia. R.C.C. pipe	200	RMT	1,569.58	3,13,916.00
109b	19.6.7	600 mm dia. R.C.C. pipe	200	RMT	2,222.77	4,44,554.00

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
110	19.36	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
110a	19.36.5	1200 mm dia RCC pipes. (Laying by manual/mechanical means)	60	RMT	10,457.78	6,27,466.80
111	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately)				
111a	21.1.1	For fixed portion				
111aa	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1,220	Kg	459.73	5,60,870.60
111b	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
111ba	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1,280	Kg	563.40	7,21,152.00
112		Items included in Delhi Schedule of Rate-(Horticulture & Landscaping) 2020		LS		10,00,000.00

SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						
S. No.	DSR-2021 Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
113	NS-13	Earthwork in filling with contractor's own earth of approved quality from borrow areas including all lead all lead, lift, ascent, descent, royalty, taxes, cess, compensation, crossing of nallahs /stream and other obstructions including mechanical compaction in layers with watering to 95% of MDD (as per IS 2720 part 8), handling, re-handling, dressing to the final profile with all labour, material, tools, plant, machinery and equipment, taxes, cess etc. as a complete job in accordance with the specification and drawings Note:- This item will be used for earthwork in filling for other than railway embankment work.	4,35,237	Cum	266.32	11,59,12,317.84
Total Estimated Value of SUB SCHEDULE-B12 Road and Building Works (DSR Based & NS items)						48,66,90,974.17

6.13 Sub-Schedule 'B13': Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
114	022100	Providing, fabricating and installing permanent casing pipe for bored piles for all diameters with specified thickness of steel plate including all labour, materials, pumping and bailing out water wherever required, complete as per technical specifications as directed by Engineer in charge. This will include the weight of plate only and no cognizance will be given for the fittings, i.e. rivets and welding etc	513	MT	93,966.70	4,82,04,917.10
115	023030	Supplying, Fabrication, assembly, erection & placing in position the cutting edge of well curb with structural steel including MS sheet/Plates of specified thickness for pier/abutment complete as per approved plans and as per direction of Engineering In charge including all operations like cutting, bending, straightening, drilling holes, bolting, riveting, welding, threading, jointing of steel sections including outer and inner plates liners and skin plates, stiffeners, hooks, bottle nuts, bond rods etc. as per design including all ascent, descents, leads, lifts, handing, re-handling, all other obstructions whatsoever, diverting channels, pumping / bailing out of water wherever required including cost of steel such as flats, sheets, angles, steel bars etc. with all labour and material as a complete job	108	MT	1,03,513.04	1,11,79,408.32

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
116	031090	Design, manufacturing, supplying and fixing in position elastomeric bearing true to line and level conforming to IS:3400, IS:226, BS-5400 under prestressed concrete girders/ Steel Girders, for Precast as well as cast-in-situ girders as per approved drawing. The rate shall include cost of load test of one no. bearing from Railway approved firms and all fixing materials, equipments, machineries, labour, taxes, loading, unloading, leading, lifting etc. complete. Rates include getting the drawing approved from Railway and cost of inspection during manufacturing from railway approved organization. Note : 1. The rate is for finished item complete and paid only after fixing in position below the girder. 2. The volume shall be given in the drawing and no deduction shall be made for inserted	7,74,144	Cu.Cm.	1.73	13,39,269.12
117	041060	Providing and fixing railing used in rows for footpath or anti-crash barrier railing with B class G.I. pipe 65/50 mm nominal dia including cost of M.S. angle and channels in vertical posts, welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labour, T&P as a complete job.	19,816	Kg	108.38	21,47,658.08
118	041080	Providing and fixing various size HTS holding down bolts conforming to IS:1364 in concrete column or in other structures with proper nuts, bolts, washers/plates, grouting of holes with all material, labour, T&P as a complete job. Note: Cement used in grouting will be paid separately under relevant item.	2,000	Kg	166.42	3,32,840.00

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
119	041180	Design, supply and fixing 300MT capacity Spherical Bearing in position true to line and level consisting of set of concave and convex mating steel backing plate with a low friction sliding interface, flat sliding elements ,guides and restraining rings; with all components conforming to approved drawing and technical specifications & Bridge Code including grouting of holes for anchor bolts and underside of baseplate with approved non-shrink epoxy grout with all material, labour, T&P as a complete job. Note: Sliding surface with PTFE or UHMWPE low friction thermoplastic material and steel for backing plate of Mild steel in accordance to IS:2062 grade-B. Cast steel in accordance with IS 1030 Grade 280-520W. Stain less steel in accordance with AISI 304/316.Low friction thermo -plastic sliding PTFE material either pure polytetrafluroethalyne (PTFE) Or Ultra High Molecular weight Polythylene (UHMWPE). Austanitic steel is of stainless steel for the sliding interface shall be in accordance with AISI 316L or O2 Cr17 NI12 of IS-6911. The thickness of the stain less steel sheet shall be 3mm minimum. The stainless steel sheet shall be attached to its backing plate either by screwing/riveting or by continuous fillet weld. Hard chromium plated surface shall be entire curved surface of the convex steel plate mating with hard chromium plated concave sliding surface. The thickness of the hard chromium plating shall be at least 100 microns and the final surface roughness of the plated surface shall not exceed 3 microns. Bearing manufacturer shall give the guarantee for satisfactory performance of bearing for period specified				
119a	041181	Spherical Fixed Bearing	97	Each	1,21,917.91	1,18,26,037.27
119b	041182	Spherical Free Float Bearing	97	Each	1,33,115.26	1,29,12,180.22
119c	041183	Spherical Slide Guide (L) Bearing	97	Each	1,33,608.41	1,29,60,015.77

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
119d	041184	Spherical Slide Guide (T) Bearing	97	Each	1,33,347.32	1,29,34,690.04
120	041390	Supplying fabricating and erecting welded and/or bolted and/or riveted steel work in built up sections, trusses and framed work, staging, racks etc.for Steel Structures other than bridge girders, using RSJ, tees, angles and channels/flats, plates, gussets, round or square bars, cleats, bolts etc., with contractors own steel including cutting, bending, straightening, drilling, riveting, hoisting, fixing, erecting, welding, bolting etc., with Providing stiffeners wherever required as per approved drawing including applying a priming coat of a approved steel primer with all contractor's materials, labour, tools & plants, lead & lift including crossing of tracks if required etc., complete as per specification and as directed by Engineer-in-charge.	531	MT	1,05,850.00	5,62,06,350.00
121	191260	Supplying & fixing MS chequered plates 6 to 8mm thick between guard rails on unballasted deck bridge for gang pathway, overlapping at regular intervals of 2m to 2.5m with rail screws or bolts duly drilling holes in chequered plate, as directed [Note : Overlapping of chequered plates shall not fall in between sleepers]	5	MT	94,839.71	4,74,198.55
122	NS-14	construction of Mild Steel pipe of 323.9 mm outer diameter in the embankment at approximately 500m interval (except in station yards) for crossing utilities in future as shown in drawings	100	RMT	3,909.00	3,90,900.00
123	NS-15	Supplying, fabrication and fixing pathway on Open Web Girder bridges & Composite with hollow steel, rolled and chequered plate including welding / bolting, priming painting with one coat ready mix Zinc Chromate conforming to IS:104 with DFT of 25-30Microns, followed by one coat of Zinc Chrome red oxide conforming to IS:2074 with DFT of 25 Microns with all material, labour, T&P as a complete job as RDSO drawing No. CBS 0045 & CBS 0046	1,003	MT	1,18,082.40	11,84,36,647.20

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
124	NS-16	Supplying and fixing M.S. Angles 100mmx 100mmx 10mm size conforming to IS:2062 in expansion joint of Composite girder bridges including provision of 10mm dia dowel bar & 12mm dia anchor bolts at 150 mm centre to centre ,and 250mm wide GI plate over the top of angles as per relavent RDSO standard drawing with all material, labour, T&P as a complete job.	261	Each	6,353.64	16,58,300.04
125	NS-17	supplying, fabricating, transportation and fixing galvanized H-Beam sleepers as per RDSO drawingRDSO/B/1636/4/R & RDSO/B/1636/5 with latest alteration and specifications thereto complete with all fittings and fixtures including the cost of all steel sections, all fittings and fixtures ,elastomeric pad, galvanized bolts, nuts, washer,split pin,fish plates 1m and 0.6m long along with fish bolts and nuts for 60Kg running rail and 52Kg gaurd rail respectively, track fittings and fastenings (Zero Toe Load Fastening) for 60 kg running rail and 52 Kg guard rail as per RDSO drg -RDSO/T-8759 to RDSO/T8765. labour, lead, lift, plants and equipments including galvanized work of full steel components complete in all respects as per approved drawing and technical specifications & as per direction of Engineer on Open Web Girder(OWG) bridges .The rate is also inclusive of the cost of supply of approved quality of epoxy/adhesive and fixing of elastomeric pads with different components of steel sleepers & girder in accordance with approved drawings. The steel to be supplied by the contractor for fabrication of steel H-Beam sleepers shall conform to IS-2062-2006, Grade B0 only. The rate is also inclusive of inspection charges of components of sleepers including all fixtures & fastening, galvanization etc. from the reputed laboratory/organization. Elastomeric pad plate and other track fittings shall be procured from RDSO approved source. Note: Payment under this item shall be made in following manner; i. 75% of the rate shall be paid after fabrication, galvanization and transportation of H beam sleepers to the site and submission of material test certificate of manufacturer and inspection certificate of the agency nominated by Engineer.	135	Each	30,859.85	41,66,079.75

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
		ii. 15% of the rate shall be paid after supply of fittings to the site and submission of inspection certificate of the agency nominated by _____ Engineer. iii. 10% of the rate will be paid after fixing H Beam sleepers to the girder in satisfactory manner. iv. In case fixing is not required, then balance payment will be released on handing over of the sleepers after making recovery @ Rs.850/- per sleeper.				
126	NS-18A	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	13,789	Kg	673.98	92,93,510.22
127	NS-18B	Manufacturing, Supplying and installation of Stainless Steel Benches as per RDSO Type Plan No. RDSO/WKS/2018/2 and specification.	32	Each	32,770.64	10,48,660.53
128	NS-19	Supply, fabrication and erection of bed plate of approved sizes(as per relevant RDSO drawing No. RDSO/B-11751/4R2, B-11753/5R1, B-11754/3R2 with uptodate corrections), in exact position over bed block on pier/abutments by giving full and even bearing, setting them on the layer of free flow non-shrinkable grouting compound, scrapping or chipping of bed block, if required, fabrication and fixing of HD bolts of suitable sizes alongwith nuts, washers etc., drilling holes of required size,				

SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						
S. No.	USSOR/NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
		grouting of holes by epoxy mortar after fixing HD bolts with all labour, material, T & P as a complete job.				
128a	NS-19A	More than 12.2m and upto 18.3m clear span	15,400	Kg	233.52	35,96,208.00
129	NS-20	Supply and fixing of Metallic Guided Bearing in position true to line and level as per RDSO drawing No. RDSO/B-11754/3R2 and IRC:83 pt. III-2018 including supply & grouting of anchor bolts with approved non-shrinking epoxy grout with all material, labour, T&P as a complete job.	56	Each	51,263.82	28,70,773.92
Total Estimated Value of SUB SCHEDULE-B13 Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)						31,19,78,644.13

6.14 Sub-Schedule 'B14': P Way Works-Ballastless Track, Rails & Special Sleepers (NS items)

SUB SCHEDULE-B14 P Way Works-Ballastless Track, Rails & Special Sleepers (NS items)						
S. No.	NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
130	NS-21	Construction of ballast less track on straight, curved track on bridges including linking of track with 60 Kg rails in LWR including, supply and fixing of rail fittings/ fastening, Construction of derailment guard , as per design approved by the Engineer. The item include supply and leading of all material, labour and tools & plants as a complete job including welding of track in LWR, destressing, drainage arrangement as per the approved drawing complete in all respect. Nothing extra shall be paid. Note:- 1- Supply of 60 Kg 350 R Rails shall be paid under item no NS-25 of this Sub-Schedule	4,173	Rmt	54,223.73	22,62,75,625.29
131	NS-22	Construction of Transition system of ballastless track to ballasted track on bridge approach including linking of track with 60 Kg rails in LWR including , supply and fixing of rail fittings/ fastening, Construction of derailment guard , as per design approved by the Engineer. The item include supply and leading of all material, labour and tools & plants as a complete job including welding of track in LWR, destressing, drainage arrangement as per the approved drawing complete in all respect. Nothing extra shall be paid. Note:- 1- Supply of 60 Kg 350 R Rails shall be paid under item no NS-25 of this Sub-Schedule	38	Each	11,71,230.13	4,45,06,744.94

SUB SCHEDULE-B14 P Way Works-Ballastless Track, Rails & Special Sleepers (NS items)						
S. No.	NS Item No.	Description of Item	Quantity	Unit	Estimated Rate (INR)	Estimated Amount (INR)
132	NS-23	Linking of track on H- beam sleepers on Open Web Girder (OWG) bridges with 60 Kg running rail and 52 kg guard rail with track fittings/fastenings including leading of Running and guard rails from bridge approach and fixing of running rails & guard rails, bending of guard rails, notching, drilling of holes, cutting of rails etc., as directed and making track structure fit for sectional speed. (Rails will be supplied by Employer)	82	RTM	1,460.07	1,19,725.74
133	NS-24	Supplying at site of work including leading, loading, unloading and stacking of special PSC wider base sleepers for bridge approaches with provision of guard rails as per RDSO Drawing No. T-8673 to T-8680 for 60 Kg Rail.	4	Set	49,622.71	1,98,490.84
134	NS-25	Supplying, Transporting of Rail 60 kg Class 'A' , R350 rail of 13/26 meter length as per IRS: T-12/2009 Specifications with latest amendments issued by RDSO.	11706	Rmt	7,396.29	8,65,80,970.74
135	NS-26	Supplying, Transporting of Rail 60 kg Class 'IU' as per IRS: T-12/2009 Specifications with latest amendments issued by RDSO.	164	Rmt	5,177.40	8,49,093.60
Total Estimated Value of SUB SCHEDULE-B14 P Way Works-Ballastless Track, Rails & Special Sleepers (NS items)						35,85,30,651.15
Total Estimated Amount of Schedule 'B' (B1 B2+B3+B4+B5+B6+B7+B8+B9+B10+B11+B1+B13+B14)						7,60,74,27,893.03

Total Estimated Amount of Schedule 'B': INR: 7,60,74,27,893.03

7 Schedule 'C': General Electrical Services

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
1	CONDUITS, WIRING, PLUGS, FAN AND DISTRIBUTION BOARDS				
1.1	Point Wiring By 3x2.5 sqmm Copper Cable (With Modular Switches & Socket) with Conduits.	Nos	1990	457.82	911,061.80
1.2	Supply of Material and Erection of 3x2.5 Sqmm Copper Cable along with Conduits.	m	13785	95.19	1312,194.15
1.3	Supply of Material and Erection of 3x6 Sqmm Copper Cable along with Conduits.	m	2120	144.89	307,166.80
1.4	Supply and Installation of 6A Modular Switch Socket.	Nos	1489	257.03	382,717.67
1.5	Supply and Installation of 16A Modular Power Switch Socket.	Nos	395	284.35	112,318.25
1.6	Supply and Installation of 02 Module Plate GI Box.	Nos	275	110.51	30,390.25
1.7	Supply and Installation of 04 Module Plate GI Box.	Nos	739	152.73	112,867.47

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
1.8	Supply and Installation of 08 Module Plate GI Box.	Nos	305	263.24	80,288.20
1.9	Supply and Installation of 12 Module Plate GI Box.	Nos	38	283.11	10,758.18
1.10	Supply, Installation, Testing and Commissioning (SITC) of 1200 mm Sweep Ceiling Fan with Fan Regulator.	Nos	559	2806.82	1569,012.38
1.11	Supply, Installation, Testing and Commissioning (SITC) of 300 mm Sweep Exhaust Fan.	Nos	95	1640.95	155,890.25
1.12	Supply, Installation, Testing and Commissioning of Double Door, with MCB TPN 440V, 8 Module Distribution Boards (DB).	Nos	54	20227.48	1092,283.92
1.13	Supply, Installation, Testing and Commissioning of Double Door, with DP MCB 40A, SP, 12 Way Distribution Board (DB).	Nos	70	9610.50	672,735.00
1.14	Supply, Installation, Testing and Commissioning of 440V, 3-phase Change Over Distribution Board.	Nos	6	26177.88	157,067.28

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
1.15	Supply, Installation, Testing and Commissioning of MCCB 200A, 440V, 3-phase, (4 Pole, 36 kA) with enclosure.	Nos	13	34903.83	453,749.79
1.16	Supply, Installation, Testing and Commissioning of Double Door, with 63A, 240V, MCB SP, 8 Way Distribution Board.	Nos	39	4805.25	187,404.75
1.17	Supply and Installation of Junction Box Size 390(H)x305(B)x170(D) mm.	Nos	32	3119.47	99,823.04
1.18	Supply and Installation of Metal Clad Plug Socket 20A, 240V, Single Phase with 32A MCB with enclosure.	Nos	65	1110.08	72,155.20
1.19	Supply and Installation of Metal Clad Plug Socket 16A, 240V, Single Phase with 20A MCB with enclosure.	Nos	38	888.06	33,746.28
1.20	Supply, installation, testing and commissioning of 25 mm dia GI Conduit.	m	1900	150.09	285,171.00
1.21	Supply, installation, testing and commissioning of 32 mm dia GI Conduit.	m	260	192.12	49,951.20

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
1.22	Design and Drawing of conduits, wiring, panels, distribution board, as built drawings, survey, calculation etc. for Item no. 1.1 to 1.21.	LS	LS		1,61,775.06
2	LT & HT CABLES AND LAYING				
2.1	Supply of 2 Core x 10 Sqmm, 1.1 kV Copper Cable.	m	10210	156.49	1597,762.90
2.2	Supply of 2 Core x 16 Sqmm, 1.1 kV Copper Cable.	m	22840	250.38	5718,679.20
2.3	Supply of 2 Core x 35 Sqmm, 1.1 kV Copper Cable.	m	7560	547.71	4140,687.60
2.4	Supply of 2 Core x 70 Sqmm, 1.1 kV Copper Cable.	m	3150	1095.40	3450,510.00
2.5	Supply of 2 Core x 95 Sqmm, 1.1 kV Copper Cable.	m	6930	1486.62	10302,276.60
2.6	Supply of 4 Core x 120 Sqmm, 1.1 kV Copper Cable.	m	5670	3755.66	21294,592.20
2.7	Supply of 4 Core x 240 Sqmm, 1.1 kV Copper Cable.	m	1890	7511.32	14196,394.80

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
2.8	Supply, Installation, Testing and Commissioning of 1.1 kV Heat Shrinkable Straight Through Joint.	Nos	63	2636.42	166,094.46
2.9	Supply of 3 Core x 120 Sqmm 11 kV Copper Cable.	m	1890	7486.70	14149,863.00
2.10	Supply and Installation of End Termination Kit for 3 core 70 to 185 Sqmm, 11 kV Copper Cable.	Nos	76	14965.57	1137,383.32
2.11	Laying of LT/ HT Cables (All Size) In Air/ Pipe/ Cable Tray/ Trench Etc.	m	63665	47.96	3053,373.40
2.12	Excavation and Refilling of Trench of Size 500 mm Wide and depth up to 1200 mm (as per design) for cables.	m	63665	133.87	8522,833.55
2.13	Excavation and Refilling of Trench of Size 500 mm Wide and depth up to 1200 mm with brick protection (as per design) for cables.	m	6615	340.87	2254,855.05
2.14	Supply and Laying of HDPE Pipe (90 mm outside dia).	m	26460	137.78	3645,658.80
2.15	Supply and Laying of HDPE Pipe (90 mm outside dia) at platform along with pit and cover.	m	7560	151.55	1145,718.00

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
2.16	Supply and Laying of HDPE Pipe (125 mm outside dia).	m	10080	476.31	4801,204.80
2.17	Supply and Laying of HDPE Pipe (160 mm outside dia).	m	1890	609.68	1152,295.20
2.18	Supply and Laying of GI Pipe (nominal bore 125 mm).	m	5670	1714.05	9718,663.50
2.19	Supply and Installation of Cable Route Marker.	Nos	665	2191.36	1457,254.40
2.20	Drilling of horizontal bore below Railway track or road by pushing method for laying of HDPE/GI pipe.	m	3780	2787.66	10537,354.80
2.21	Design and Drawing of cable layout, trench layout, route markers, cable and pipe schedule, as built drawings, survey, calculation etc. for Item no. 2.1 to 2.20.	LS	LS		24,48,869.11
3	LIGHTING, STREET LIGHT POLE AND HIGH MAST				
3.1	Provision of 22 Watt LED Tube Light with fitting.	Nos	1498	756.31	1132,952.38
3.2	Provision of 40 Watt LED Street Light with Fitting.	Nos	335	5239.09	1755,095.15

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
3.3	Provision of 120 Watt LED Street Light with Fitting.	Nos	335	13097.72	4387,736.20
3.4	Provision of Rechargeable Batten Type 240 Watt Emergency Light.	Nos	26	3212.28	83,519.28
3.5	Provision of Outdoor LED Type Flood Light Luminaries (200 Watt).	Nos	180	33441.04	6019,387.20
3.6	Supply, installation, testing and commissioning of 11 meter high cast iron decorative street light pole.	Nos	630	30000.00	18900,000.00
3.7	Supply, Installation, Testing and Commissioning of (OFF Delay) Modular Digital Timers.	Nos	45	6595.91	296,815.95
3.8	Supply, Installation, Testing and Commissioning of 20 Meter High Mast.	Nos	15	539402.50	8091,037.50
3.9	Design and Drawing of high masts, street poles, digital timer, foundation, lighting lux calculations, earthing, calculation, survey, as built drawings etc. for Item no. 3.1 to 3.8.	LS	LS		8,13,330.87
4	ELECTRICAL EQUIPMENTS (PUMPS, AIR-CONDITIONERS, UPS, WATER COOLER, ETC.)				
4.1	Supply of Submersible Pump Set of 7.5 kW.	Nos	9	70013.25	630,119.25

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
4.2	Supply, Installation, Testing and Commissioning of Automatic Control Panel for 7.5 kW, 440V, 3- Phase Submersible Pump.	Nos	9	20239.71	182,157.39
4.3	Installation, Testing and Commissioning of Submersible Pump Set of 7.5 kW.	Nos	9	4552.07	40,968.63
4.4	Supply, installation, testing and commissioning of Mono-Block Pump 1.5 kW, 240V, complete with all accessories and control panel.	Nos	3	16119.75	48,359.25
4.5	Supply, Installation, Testing, Commissioning of 3 Core, 10 Sqmm Copper Flat Cable.	m	4300	201.16	864,988.00
4.6	Supply of Mono Block Pump 3.75 kW, 440V, 3-phase.	Nos	6	35006.63	210,039.78
4.7	Supply, Installation, Testing and Commissioning of Automatic Control Panel with DOL Starter for 3.75 kW, 440V, 3-Phase Pump.	Nos	6	10119.86	60,719.16
4.8	Installation, Testing and Commissioning of 3.75 kW, 440V, 3-phase Mono Block Pump Set.	Nos	6	2731.24	16,387.44

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
4.9	Supply and Installation of G.I. Pipe 40 mm nominal dia Medium Class with bends, fitting bends, sockets, flanges, delivery valve, non-return valve etc. as required.	m	300	278.94	83,682.00
4.10	Supply and Installation of G.I. Pipe 50 mm nominal dia Medium Class with bends, fitting bends, sockets, flanges, delivery valve, non-return valve etc. as required.	m	300	348.67	104,601.00
4.11	Supply and Installation of G.I. Pipe 65 mm nominal dia Medium Class with bends, fitting bends, sockets, flanges, delivery valve, non-return valve etc. as required.	m	300	453.27	135,981.00
4.12	Supply and Installation of G.I. Pipe 80 mm nominal dia Medium Class with bends, fitting bends, sockets, flanges, delivery valve, non-return valve etc. as required.	m	300	557.87	167,361.00
4.13	Supply, Installation, Testing and Commissioning of 32A, 240V, DP MCB with enclosure.	Nos	38	2189.38	83,196.44
4.14	Supply, Installation, Testing and Commissioning of Heavy Duty 5 Star, 1.5 Ton Split Inverter Type Air Conditioner, 240V.	Nos	36	50956.24	1834,424.64

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
4.15	Supply, Installation, Testing and Commissioning of Heavy Duty 5 Star, 2 Ton Split Inverter Type Air Conditioner, 240V.	Nos	62	67941.66	42,12,382.92
4.16	Supply, Installation, Testing and Commissioning of 2 KVA, 240 Volt, AC, Pure Sine Wave Online UPS cum Inverter.	Nos	12	55625.00	667,500.00
4.17	Supply, Installation, Testing and Commissioning of Water Cooler (150 Litre).	Nos	21	79503.00	1669,563.00
4.18	Supply, Installation, Testing and Commissioning of 5 star rated storage geyser 25 litre capacity.	Nos	12	4812.83	57,753.96
4.19	Design and Drawing of pumps, control panels, AC, water coolers, geyser, UPS, survey, calculation, as built drawings etc. for Item no. 4.1 to 4.18.	LS	LS		2,21,403.70
5	SUBSTATION 11kV/ 0.44 KV, HT PANEL, LT PANEL, APFC PANEL, DG SET AND EARTHING				
5.1	Supply, Installation, Testing and Commissioning Of 11kV/0.44kV, 1x250 kVA, Compact Substation (CSS).	Nos	7	1097570.91	7682,996.37

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
5.2	Supply, Installation, Testing and Commissioning of Automatic Power Factor Correction Panel (APFC panel) with 150 kVAR shunt capacitors complete in all respect.	Nos	6	114548.69	687,292.14
5.3	Supply, Installation, Testing and Commissioning of Indoor Type 400A LT Panel.	Nos	6	212247.75	1273,486.50
5.4	Supply, Installation, Testing and Commissioning of Indoor Type 160A LT Panel.	Nos	3	127348.65	382,045.95
5.5	Supply, Installation, Testing and Commissioning of Indoor Type 160A Essential LT Panel.	Nos	2	133716.08	267,432.16
5.6	Supply and Installation of 3 mm Thick Rubber Mat.	Sqm	190	3619.98	687,796.20
5.7	Supply, Installation, Testing and Commissioning of 125 kVA Capacity, Radiator Cooled Silent DG Set.	Nos	2	1264870.22	2529,740.44
5.8	Supply, Installation, Testing and Commissioning of Feeder Pillar.	Nos	18	115740.07	2083,321.26

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
5.9	Supply, Installation, Testing and Commissioning of Earth Electrode Complete with RCC chamber etc.	Nos	125	3820.91	477,613.75
5.10	Supply, Installation, Testing and Commissioning Earth Electrode buried in ground complete.	Nos	430	3629.87	1560,844.10
5.11	Supply and Installation of 40x5 mm Copper Strip on Surface or in Recess or in GI Pipe.	m	320	1719.61	550,275.20
5.12	Supply and laying of 40mm x 6mm GI Flat.	m	3450	139.34	480,723.00
5.13	Supply and installation of lightning conductor finials (air conductor) of 25 mm dia 1000 mm long GI pipe having a single copper prong.	Nos	45	1031.75	46,428.75
5.14	Supply and Installation of 5 mm Dia GI Wire.	m	14200	71.53	1015,726.00
5.15	Supply, Installation, Testing and Commissioning of Clean agent gas based panel flooding system for Electrical LT panels (Clean agent panel flooding system - Fire tube system) complete as required.	Nos	11	307089.32	3377,982.52

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
5.16	Design and Drawing of Sub-station, LT panels, APFC Panel, DG set, earthing, feeder pillar, fire trace system, as-build drawings, calculations, survey etc. for Item no. 5.1 to 5.15.	LS	LS		4,62,074.09
6	FIRE FIGHTING EQUIPMENTS				
6.1	Supply and Installation of Safety Items in the Substation.	Set	9	18769.54	168,925.86
6.2	Supply and installation of Set of 04 fire buckets (10 litre) capacity with one GI stand and GI cover.	Set	16	6785.55	108,568.80
6.3	Supply and installation of Portable fire extinguisher Dry Chemical Powder (5 kg).	Nos	104	1277.33	132,842.32
6.4	Supply and installation of Carbon dioxide fire extinguishers complete as required, capacity 4.5 kg.	Nos	104	6374.36	662,933.44
7	MISCELLANEOUS				
7.1	Supply, Installation, Testing and Commissioning of 25 Litre Fully Automatic with Auto Cut-Off RO water purification system.	Nos	15	17000.00	255,000.00

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
7.2	Supply, Installation, Testing and Commissioning of Single Sided LED Signage Board.	Sqm	100	26060.88	2606,088.00
7.3	Supply, Installation, Testing and Commissioning of Double Sided LED Signage Board.	Sqm	50	32322.59	1616,129.50
7.4	Dismantling of Rail Pole, Cable Pole, Overhead Line, Cable Tray Complete.	Nos	38	700.94	26,635.72
7.5	Supply and Installation of GI Cable Duct 40x60 mm (wxh) Minimum 2 mm Thick.	m	790	108.04	85,351.60
7.6	Supply and Installation of Stainless Steel Wire Mesh 25mm x 25mm (of 5 mm dia wire) Welded on GI Angle.	Kg	1575	88.86	139,954.50
7.7	Supply, Installation, Testing and Commissioning of GI Perforated Cable Tray of Size 150x50 mm with Thickness 2 mm.	m	1260	649.36	818,193.60
7.8	(1) Hiring of AC vehicle Bolero on monthly basis at Manesar/Gurugram for 2500 km per month. Two Vehicles shall be provided at all the time.	Vehicle Month	96	54019.58	5185,879.68
	(2) Extra charge beyond 2500 km per month per vehicle (96x500=48000).	km	48000	13.69	657,120.00

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
7.9	Spares				
7.9.1	Digital Earth Testers	Nos	4	9991.00	39,964.00
7.9.2	Earth Leakage Detector 1000 V	Nos	4	24849.00	99,396.00
7.9.3	Digital Insulation Tester 2.5 kV	Nos	4	8559.00	34,236.00
7.9.4	Digital Insulation Tester 0 – 1000 V	Nos	4	2175.00	8,700.00
7.9.5	Digital Vernier Caliper	Nos	10	12872.00	128,720.00
7.9.6	Portable Diesel Generating set, 3 kVA, 240 V AC	Nos	2	110400.00	220,800.00
7.9.7	Digital micrometer	Nos	10	9957.00	99,570.00
7.9.8	Digital Multi-meter	Nos	10	1490.00	14,900.00
7.9.9	Safety Helmet	Nos	20	995.00	19,900.00
7.9.10	Tool Kit Box	Nos	6	6603.00	39,618.00
7.9.11	Portable Grinder Electrically Operated	Nos	4	8463.00	33,852.00
7.9.12	Portable Electrical Drill	Nos	4	14914.00	59,656.00

Item No.	Item Description	Unit	Quantity	Unit Rate (INR)	Amount (INR)
1	2	3	4	5	6
7.10	Operation and Maintenance Manuals	LS	LS		222,743.03
7.11	Training to Staff	LS	LS		556,857.57
	Total of Schedule 'C'				22,35,22,629.75

Total Estimated amount of Schedule 'C': INR 22,35,22,629.75

8 Schedule 'D': Signalling & Telecommunication (S&T) Works

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
D1	Supply of Signalling and Telecom equipment and associated material (S. No. 1 - 29)				
1	Supply of Relays- Q series AC immune, plug in type, style QNA1, DC neutral line relay, 24 V DC 8F/8B, metal to carbon contacts with plug board retaining clip & connectors conforming to BRS:931A and RDSO specification IRS:S-34, S-23, S-60, IRS: S 60-78 Amdt.1 (latest) as applicable. The interlocking code for this unit shall be ABDGH.	Nos.	5,302	15	79,530
2	Supply of QTA2 relays AC immunised plug in type DC 9 Ohm neutral track relay miniature tractive armature with 2F/1B contacts as per BRS : 939A or latest amendments if any, BRS :966-F2, IRS-S-34 & IRS-S-23 (as applicable)	Nos.	6,106	2	12,212
3	Supply of Track feed Battery Charger as per RDSO Specn. No. IRS: S-89/2013 Ver.1.0 or latest. Charging capacity rating should be suitable for charging 80 AH Battery.	Nos.	7,023	2	14,046
4	Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type), Phenolic moulded base, as per RDSO Drg. No. SA-20161-66/M or latest.	Nos.	2,714	2	5,428

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
5	Supply of B Type Choke as per RDSO Specn.No.IRS:S-65/83 (Amnd. 3) or latest.	Nos.	7,033	4	28,132
6	Supply of Fiber type Track lead Jn. Box as per IRS(s) Drg. No.SA- 20101/M made of FRP material (FRP material conforming to RDSO SPN 151/97 or latest) complete with 450 mm long 25 mm dia. pipe.	Nos.	1,494	6	8,964
7	Supply of Lead acid secondary cell 2V/80 AH with tubular positive & pasted negative plates assembled in hard rubber case container as per spec no IRS-S- 88/2004 Ver. 1 or latest. (Inspection: RDSO)	Nos.	3,348	6	20,088
8	Supply of 16/0.2mm (0.5 sq mm)size PVC insulated multi strand, single core tinned copper conductor wire as per RDSO specification No. IRS: S 76/89 (Amend 3) (latest) in different colours (to be supplied in coils of 100m)	Mtrs	13	1,500	19,500
9	Supply of Colour Light Signal Post, Tubular Mild steel, 4.6 meter length, 140 mm Dia, as per RDSO spec. No. IRS: S-6/81 or latest and Supply of cast iron Main signal surface base (As per RDSO Drg. No. 2011/M or latest), with CLS ladder assembly suitable for colour light signal 4.5 meter	Nos.	30,080	1	30,080

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	long, as per RDSO drg. No. SA 23153 and signal front staging complete assembly and complete signal back staging for CLS unit.				
10	Supply of Offset brackets for Main Signal, made of Mild Steel, outer diameter 140 mm (5.5 inch), thickness of pipe 4.5 mm with fixing arrangement on Main Signal post as per Drawing No. SA-23080/Adv. along with fixing U bolts, nut and clamps.	Nos.	1,436	1	1,436
11	Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signalling suitable for RE area FOUR Aspects, complete without lenses, lamps and signal transformer as per RDSO Drg. No. SA 23001 A/M (Adv.) and as per RDSO spec. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/ 151/ 1997 (latest).	Nos.	50,263	1	50,263
12	Supply of Junction route indicator unit 1/2 way, made of FRP, (Without Lenses & Holder) as per Drg. No. SA 23401-06 (Adv.) (as applicable)suitable for LED Signal Lighting Unit and as per RDSO spec.No. IRS: S-66/84 Amd.-1 or latest and RDSO/SPN/194/2006 Rev.2 or latest.(Supply of LED Unit is not covered in this item)	Nos.	52,911	1	52,911

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
13	Supply of Calling ON Signal Unit, Non metallic, with Brackets, clamps and fixing accessories, suitable to LED signal lighting unit and as per RDSO spec. No. RDSO/SPN/194/2006 (Rev. 2.0) or latest. The FRP material shall conform to RDSO/SPN/151/1997 or latest. Calling On Signal Unit shall conform to RDSO Drg No. SA-24351(Adv) Alt1 or latest without lamp, lamp-holder and lens.	Nos.	13,880	1	13,880
14	Supply of Position Light Shunt Signal Unit Complete, independent type along with base and post, hood, cover etc. non-metallic, made of FRP as per Drg. No. SA-23840 (Adv.) suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item)	Nos.	17,603	1	17,603
15	Supply of Position Light Shunt Signal Unit Complete, along with offset bracket (Mild steel 4.5mm), hood, cover, fixing arrangement etc. Non-Metallic, made of FRP as per Drg. No. SA-23840 (Adv.) suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item)	Nos.	10,536	1	10,536
16	High power LED Aspect for main signal with Polycarbonate lens conforming to Indian railway chromatically standard and the specification no. RDSO/SPN/199/2010 rev.1.1 (latest). This includes AC LED ECR with inbuilt current regulator, health monitoring unit, fuses and other accessories required for fixing.				
	a) For Red Aspect	Nos.	10,371	1	10,371

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	b) For Yellow Aspect	Nos.	10,377	2	20,754
	c) For Green Aspect	Nos.	11,769	1	11,769
17	Supply of LED signal (ROUTE Aspect), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No. RDSO/SPN/153/2023 (Rev.5.0) or latest.	Nos.	7,169	5	35,845
18	Supply of LED signal (CALLING ON Aspect), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No. RDSO/SPN/153/2023 (Rev.5.0) or latest.	Nos.	8,788	1	8,788
19	Supply of LED signal (SHUNT Aspect), 110V AC compatible with AC LED ECR as per RDSO Specn. No. RDSO/SPN/153/2023 (Rev.5.0) or latest.	Nos.	7,207	5	36,035
20	Supply of cartridge fuse block made of PBT for Railway signalling as per IRS-S:75/2006 Rev 2 or latest, fuses non-deteriorating type low voltage, to suit Specn. No. IRS: S-78/92 or latest, 2 Amp/4 Amp/10 Amp/16 Amp fuses in ratio of 50:20:20:10. Fuse block shall be suitable for round head type fuses as per drg. no. SA- 23748 (Alt.-4) or latest.	Nos.	290	50	14,500

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
21	Supply of disconnect terminal block for Four conductor with screwing Cage Clamp type/sliding switch disconnect as per RDSO Specification No. RDSO/SPN/189/2004 version 3 (latest), for each conductor size upto 2.5 sq.mm. Equivalent of M6 Terminals. Each Terminal block equipped with two markers on top and bottom, an end plate, 2 end clamps & adequate length rails for fitting terminal blocks.	Nos.	230	200	46,000
22	Supply of ARA terminal block (M6 terminals) 25 mm spacing small M-6 terminal made of PBT as per RDSO drg. no.SA-23741-A, (Alt.-4) spec. no. IRS-S 75/2006 rev.2 (latest).	Nos.	142	200	28,400
23	PVC Insulated Armoured, Unscreened, Underground Railway Signalling Cable Copper Conductor as per specification no. IRS-S-63/2014 {Rev. 4.0} (latest) Size 12 Core x 1.5 Sq.mm	Kms	2,54,086	8	20,32,688
24	PVC insulated armoured, unscreened, underground railway Signalling cable copper conductor as per Specification No.IRS:S-63/2014 (Rev.4.0) (latest) size 6 core x 1.5 Sq.mm	Kms	1,63,123	2	3,26,246
25	Supply of Power cable as per IRS specification No. S-63/2014 (Rev 4.0) or latest with latest amendments (2 x 25 sq. mm, Red & Black colour).	Kms	1,42,980	3	4,28,940
26	Supply of 6 Quad, 0.9 mm dia. copper conductor, jelly filled underground, screened, armoured, cable as per spec. No. IRS TC:30/2005 [Ver.1] with amend. 5 (latest).	Kms	3,93,307	5	19,66,535

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
27	24 Fiber, Armoured optical fiber cable (OFC) as per RDSO Spec. No. RDSO/SPN/110/2020	Kms	1,07,318	3	3,21,954
28	Supply of Permanently Lubricated High Density Polyethylene (PLB-HDPE) duct of dia 40/33 mm , for use as underground cable conduits for armoured optical fibre cable.as per RDSO specn. No. RDSO/SPN/TC/45/2013 Revision 2.0. along with all accessories like end caps, collars, bends, couplers etc.	Kms	83,040	3	2,49,120
29	Supply of High Availability Single Section digital axle counter (HASSDAC) with Dual sensor system as per RDSO/SPN/177/2012 (Version 3) or latest. This includes the supply of High frequency web mounting type Tx coil/Rx coil, VR/PR Box duly wired, Vital relays, PR Relays, Clamp with deflector plates & hardware, Dual display reset box/monitoring console with auto resetting facility, Surge voltage protection devices and filter card to be mounted on DIN rail etc as per OEM for complete installation & testing & commissioning of(HASSDAC) system. Note: One set of HASSDAC system will include equipment required to monitor One Up line or One DN line of a full Block Section between two stations.	SET	6,01,022	1	6,01,022
			Sub Total of 'D1' (INR)		65,03,576
D2	Signalling Installation, Testing & Commissioning (S. No. 30 -67)				

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
30	Final location joint survey of proposed cable route plan(Quad/OFC Cable) and submission for approval of Railway. The details instruction/guidelines regarding joint survey and preparation of cable route plan are enclosed in Tender document. Contractor will submit two copies of prints with soft copy for checking by Railways. If alterations are suggested by Railways, then again two copies of prints will be provided for advance approval after carrying out all the alterations as submission of final cable route plan on 75 microne standard polyester film which includes details of entire section in which Quad /OFC Cables are laid. Once Railway has approved/signed tracings for cable route plan then contractor will submit 6 (Six) sets of zerox copies for cable route plan in proper binding form.	Kms	1,026	6	6,156
31	Installation, Testing and Commissioning of High Availability Single Section digital axle counter (HASSDAC) with Dual sensor system as per RDSO/SPN/177/2012 (Version 3) or latest. This include fixing of track device, relays, wiring, lacing /dressing, cable termination with lug eyelet, drilling holes in rails, Installation of track devices and make it functional along with existing UFSBF block instrument. Material required other then supply item of HASSDAC shall be arranged by contactor to make it functional. Note: One set of HASSDAC system will include equipment required to monitor One Up line or One Dn line of a full Block Section between two stations.	Set	1,50,256	1	1,50,256

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
32	Installation of DC track circuits to suit RE area as per std. Practice. This will include following:-a) Drilling of holes 7.2 mm dia or size as required. Provision of continuous GI wire bonding on switch portion & crossing of points with two bond wires at each joints. 8 SWG GI soft bond wire, channel bond pins & all other material required will be supplied by the contractor.b) Jumpering from rail to rail or to track lead junction box including polarity jumpers /cables in case of point track circuit as per drg. No.NR/S&T/CON/3.1/97 and as per jumpering plan. This includes drilling holes, fixing of jumpers to the rails , terminating the jumpers in the TLJBs and fixing the jumper as per site requirement and instructions of site Engineer. One TLJB to be provided extra for each polarity jumper/cable. All materials including fiber TLJBs,GI pipe are to be supplied by the contractor.				
	(i) Installation & wiring of Berthing and straight track circuit.	Nos	11,869	1	11,869
	(ii) Installation & wiring of Point track circuit having single point (excluding traps. Trap points & one main point to be counted as single track circuit).	Nos	20,524	1	20,524
33	Supply of Apparatus Case/Location Box Full as per RDSO drg. No. RDSO/S-11500 or latest, with 'E' type lock and key ward No. 42,. The key and handle should be supplied at the rate of one no. per four Apparatus cases. The 'E' type key	Nos	32,730	6	1,96,380

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	lock is as per RDSO Spec.No. IRS;S-30/64 or latest, RDSO drg. No. SA 3376/M or latest and Key is as per Drg. No. 3377/M or latest. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys.				
34	Supply of Apparatus Case/Location Box Half as per RDSO drg. No. RDSO/S-11507 or latest, with 'E' type lock and key ward No. 42,. The key and handle should be supplied at the rate of one no. per four Apparatus cases. The 'E' type key lock is as per RDSO drg. No. SA3376/M or latest and Key is as per Drg. No. 3377/M or latest. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys.	Nos	23,691	2	47,382
35	Supply of phenolic laminated Sheet, resin bonded, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No. IS 2036 of 1995 or latest. Test report of manufacture to be supplied.	Nos	6,848	2	13,696
36	Excavation, casting, curing of foundation and Installation and Erection of Apparatus case Full (Apparatus Case as per RDSO drg. No. RDSO/S-11500 or latest) with contractor's own frame, cement and other material in the ratio 1:3:6. 'E' type lock to be supplied and installed with Apparatus case. This includes filling of location foundations with river bed sand and plastering on top with a mixture of 1:4 of cement and sand. It covers fixing of lamp holder, switch and lamp etc. in Apparatus Case (Full).	Nos	14,607	6	87,642

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
37	Excavation, casting, curing of foundation and Installation and Erection of Apparatus case Half (Apparatus Case as per RDSO drg. No. RDSO/S-11507 or latest) with contractor's own frame, cement and other material in the ratio 1:3:6.'E' type lock to be supplied and installed with Apparatus case. This includes filling of location foundations with river bed sand and plastering on top with a mixture of 1:4 of cement and sand. It covers fixing of lamp holder, switch and lamp etc. in Apparatus Case (Half).	Nos	12,292	2	24,584
38	Fabrication and fixing of phenolic laminated sheet of grade P3, minimum 10 mm thick, as per Apparatus case diagram/plan, in location box by providing all fixtures like ARA/Disconnect terminals, fuse blocks, fuses, relays on square bars etc. including fixing of PVC coated string rods at the back side for cable support with contractor's own material like iron angle, nuts, bolts etc. The iron angle for fixing shall be minimum 3 mm thick. This also includes fixing of teak wood shelf minimum 25 mm thick for holding equipments. The work shall be done as per instructions of Engineer. (Apparatus case Full)	Nos	5,327	6	31,962
39	Fabrication and fixing of phenolic laminated sheet of grade P3, minimum 10 mm thick, as per Apparatus case diagram/plan, in location box by providing all fixtures like ARA/Disconnect terminals, fuse blocks, fuses, relays on square bars etc. including fixing of PVC coated string rods at the back side for cable support with contractor's own material like iron angle, nuts, bolts etc. The iron angle for	Nos	2,890	2	5,780

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	fixing shall be minimum 3 mm thick. This also includes fixing of teak wood shelf minimum 25 mm thick for holding track circuit equipments. The work shall be done as per instructions of engineer at site. (Apparatus case Half)				
40	Casting, concreting and curing of foundation for main signal post in the ratio of 1:3:6 as per NCR drg. No. TYP/013/14/SIG FOUND. dtd 12.11.2014 (total 2 sheets of drawing) issued vide NCR Letter No. S&T/NCR/DRG/TYP dated 13.11.2014, using standard size of foundation/galvanized anchor bolts complete, required for erection of colour light signal post. Anchor bolts complete should comply with the RDSO drg. No. SA 116 A/M. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for foundation, will be arranged/provided by contractor.	Nos	16,075	1	16,075
41	Casting, concreting and curing of foundation for position light shunt signal as per Drg. No. NR/S&T/Const/2.2/97 using standard size of foundation/galvanized anchor bolts complete, required for erection of shunt signal post. Anchor bolts complete should comply with the RDSO drg. No. SA 116 A/M. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if	Nos	4,366	1	4,366

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	required for foundation, will be arranged/provided by contractor.				
42	Erection of CLS Post with base and signal unit on top or on Offset Bracket including erection of auxiliary signals like calling on, shunt signal if any. It includes fixing of all LEDs and wiring of complete signal including route and auxiliary signals, if any. It includes fixing of front and back staging, ladder and guards, signal name plates / boards, with contractor's own brackets and fixing materials. The work shall be done as per instructions of Railway engineer at site. It also includes provision & fixing of maintenance platform as per design given by engineer/incharge at site. The Item includes cutting of signal post if required.	Nos	6,996	1	6,996
43	Erection of Position Light Shunt signal with Base, Post, Signal unit, complete fixing of LEDs and wiring of full signal. It includes fixing of number plates. The work shall be done as per instructions of engineer at site.	Nos	1,131	1	1,131
44	Fixing of Junction type Route Indicator on top of signal post and complete wiring, 1-Way/2-Way/3-Way/4-Way/5-Way/6-Way/theater type.	Nos	1,324	1	1,324
45	Supply, fabrication and fixing of the Calling On board/BSLB board as per RDSO Drg. No. SA 2373 (Adv)/Stop/Warning board as per drg. No. SA-2380 (Adv), or as applicable, on concrete foundation and painting with	Nos	9,651	1	9,651

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	Retro reflective paint. All work to be carried out as per site engineer instructions.				
46	Fixing of ARA(M-6) Terminals /Screwing connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. The work shall be carried out as per instructions of Engineer incharge.	Nos	21	200	4,200
47	Termination of Outdoor Cables (Main Cables / tail cables) at ARA/Disconnect type terminals provided in Apparatus Cases, Cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engr. incharge of the work.	Nos	17	852	14,484
48	Dismantling and releasing of existing Location boxes/Apparatus cases/Jn boxes including releasing of terminal boards, release, terminals, fittings installed therein complete with fittings. All the released material will be transported to the SSE/Consignee depot.	Nos	1,098	8	8,784

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
49	Excavation of cable trench as per cable route plan, 1.0 meter deep and of 0.3 meter to 0.6 meter wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003, issued vide RDSO document No. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014 or latest, alongside the track in normal (All type) soil/strata, conforming to distances as per cable route plan and refilling and ramming of loose soil. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Railway and instructions of Engineer at site. In case the 1.0 m depth of trench is not achievable due to site conditions Protective works/RCC shall be done at no extra cost.	Mtrs	90	6,000	5,40,000
50	Cutting of all types of platforms/road crossing and trenching and excavation to a width and depth of 300 mm x 300 mm, laying of DWC/HDPE/GI pipe in the trench and refilling and concreting it afterwards as per original condition. In hard rocky ground area, cables will be laid normally on layer of soft earth of 0.05 meter thickness previously deposited at bottom of the trench. The cutting to be filled and finished with cement/concrete, as per the RDSO drawing No. SDO/Cable laying/008, issued vide RDSO document No. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014 or latest.	Mtrs	189	100	18,900

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
51	Supply of Double Walled Corrugated (DWC) Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti rodent & antioxidant and Non flame propagating type in 6 meter straight length and of size 120 mm outer dia, & 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One coupler with suitable rubber O-ring should be supplied with every 6m of pipe length. DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified.	Mtrs	367	200	73,400
52	Laying and fixing of Placing of DWC HDPE/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc.	Mtrs	37	200	7,400
53	Supply of Half Split Double wall corrugated pipe of HDPE in 2 or 3 Mtr. Length produced out of full round DWC pipes with IS 14930 part- II mark on it. The pipe should have necessary fixing and coupling arrangements. Size : 200 mm outer dia. And 175 mm inner dia.	Mtrs	469	6,000	28,14,000
54	Laying and fixing of Placing of Half Split Double wall corrugated pipe of HDPE in 2 or 3 Mtr. Length produced out of full round DWC pipes with IS 14930 part- II mark on it. The pipe should have necessary fixing and coupling	Mtrs	37	6,000	2,22,000

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
	arrangements. Size : 200 mm outer dia. And 175 mm inner dia.				
55	Supply of Medium class GI pipes 100 mm dia (4.5 mm thickness) with thread collars as per IS 1239 (Part 1) 2004 or latest with coupling on culverts/bridges, perforated at a distance of 20 cm or less with 10 mm dia hole, or at any other locations as decided by Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends.	Mtrs	1,180	200	2,36,000
56	Laying and fixing of Medium class GI pipes 100 mm dia (4.5 mm thickness) as per IS 1239 (Part 1) 2004 or latest with coupling on culverts/bridges, perforated at a distance of 20 cm or less with 10 mm dia hole, or at any other locations as decided by Site Engineer. The GI pipe is to be filled with chattered compound. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. The laying and fixing to be done as per RDSO drawings No. SDO/cable laying/011 and SDO/cable laying/012, issued vide RDSO document No. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014, or latest.	Mtrs	421	200	84,200

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
57	Supply and fixing of RCC cable route marker, made with concrete in the ratio 1:3:6, engraved "HORC" "S&T" on top portion and painted on both sides, along the route at every 50 meter and at route diversion. The cable marker is to be fabricated as per RDSO drawing No. SDO/cable laying/020, issued vide RDSO document No. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014, or latest. The fixing work is to be done as per extant practice of Railway and as advised by Engineer.	Nos	510	100	51,000
58	Horizontal direction drilling (HDD)/ Trenchless digging/ machine drilling/Manual moling without damage to surface road/ track for laying/ insertion of HDPE/ GI/ DWC pipe. The bore shall be done at the depth of minimum 1400 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. Note:- DWC/HDPE/GI Pipe Supply is not covered under this item. Contactor shall provide all material required for work and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Payment of boring shall be made only after DWC/HDPE/GI pipe is laid in the bore."	Mtrs	733	50	36,650

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
59	Laying of S&T Cables of various sizes and protection work GI pipes/ RCC pipes/ DWC pipes etc. as per the site requirement and as per approved cable route plan. This also includes laying of cables in track crossings & road crossings leading in buildings. (Cables will be meggered before and after its laying by contractor under supervision of Engineer and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.	Mtrs	8	18,000	1,44,000
60	Laying of HDPE duct as per the approved cable route plan in the excavated trenches/other protected works/RCC channel etc. including all accessories like end caps, collars, bends, couplers etc. The ends of the duct to be sealed with end plugs till OFC blowing is done. Important: The laying of OFC cable independently or along with Quad cable/PIJF cable in the same trench shall be governed by the RDSO drawings No. RDSO/TCDO/COP-6(a) and RDSO/TCDO/COP-8 (a) respectively, issued vide Chapter-XIII of the Telecomm Manual.	Mtrs	10	3,000	30,000
61	Blowing/drawing of OFC cable in the HDPE pipe duct and protective work already provided in the trench. The cable shall be laid only after the successful completion of the DIT (Duct Integrity test). The DIT should be certified by the engineer at site. All the equipments/machinery required shall be arranged by the contractor.	Mtrs	20	3,000	60,000

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
62	Supply of 24 fiber optical fiber cable straight joint enclosure (SJC) complete with all accessories along with enclosures with heat shrinkable splice protection sleeve as per RDSO spec. RDSO/SPN/TC68/2014 Revision 1.0, Amndt. 1.0 or latest.	Nos	6,550	3	19,650
63	Splicing of 24 core optic fibre cable and making the splicing joint with contractor's own machine and tools. Joint should be prepared in such a way that the top of the enclosure should be at a depth of minimum 1.2 meter and the enclosure should be covered with soft soil and bricks. Splice loss of each fi bre should be less than 0.05 dB.	Nos	14,290	3	42,870
64	Supply and installation of earth electrode as per standard practice and as per NCR Drawing No. S&T/CONST/6.4/97. It includes supply of GI pipe of 3 meter length. It includes connecting the earth electrode to the equipments which are required to be earthed including digging of earth pit 3 meter deep and fixing earth electrode pipe, casting of cement concrete enclosure with cover (as per drawing No. S&T/CONST/6.3/97). It includes installation of 7 strand GI wires as earth lead wires, supported on MS flat size 5mm x 40 mm, soldering and nut bolt both, one end of both earth lead wire and MS flat to earth electrode and other end to location boxes, block equipments, power equipments, cable sheath, signals etc. as per site requirement and as per instructions given by engineer/incharge.	Nos	4,106	10	41,060

Schedule 'D': Signalling & Telecommunication (S&T) Works					
S. No.	Item Description	Unit	Estimated Rate (INR)	Quantity	Estimated Amount (INR)
65	Supply of thermo shrink jointing kit for 6Quad cable as per RDSO Specn.No. IRS: TC 77-2012 (Rev.3.0) with (Amdt.-1 to 3) or latest, suitable for 6 Quad/jelly filled cables for straight through/derivation joints. It includes supply of all the accessories, without transformer.	Nos	4,000	10	40,000
66	Installation of thermo shrink jointing kit as per RDSO Specn.No. IRS: TC 77- 2012 (Rev.3.0) with (Amdt.-1 to 3) or latest, suitable for 6 Quad/jelly filled cables for straight through/derivation joints.	Nos	2,002	5	10,010
67	Supply and installation of 1120:470/1120:600 Ohms VF isolation transformer rack mounting type as per RDSO specification IRS/TC/22/76 with latest amendment applicable on the date of opening of the tender.	Nos	1,498	5	7,490
Sub Total of 'D2' (INR)					51,41,872
Total Estimated Amount of Schedule 'D ' (D1+D2)					1,16,45,448

Total Estimated amount of Schedule 'D' - INR 1,16,45,448

Notes for Schedule 'D'

1. Payment Terms

A) Supply of equipment & material:

i) 70% of payment for items shall be made to the Contractor on receipt of:

- a) Bill/ Tax invoice
- b) Receipt of material at site/ Employer's project depot managed by the Contractor
- c) Insurance of material for the project execution period
- d) Inspection certificate from the competent inspecting authority
- e) Delivery Challan
- f) Certificate from the Contractor & OEM that material being supplied is new with latest version and complies with the Specification
- g) Commitment from OEM for support to the Contractor/ HORCL/ Railway for the product being supplied and minimum for 7 years.

ii) 20% payment shall be made on installation & commissioning of equipment/ material at site**iii) 10% payment shall be made on commissioning of complete work & issue of Taking Over Certificate.****B) Installation & Commissioning:****i) 90% payment shall be made on execution/ installation & commissioning of item at site.****ii) 10% of payment shall be made on commissioning of complete work & issue of Taking Over Certificate.**

Price Schedule

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Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited

Name of Work: Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project

Contract No: HORC/HRIDC/C-6/2024

Name of the Bidder/
Bidding Firm
/ Company :

PRICE SCHEDULE
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, etc. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Units	RATE In Figures To be entered by the Bidder	TOTAL AMOUNT In Words	
1	Schedule A: Lumpsum component of Works			0.00	INR Zero Only
Total in Figures				0.00	INR Zero Only
Quoted Rate in Words					INR Zero Only

**Tenderer is only required to fill the information in the boxes highlighted with cyan colour in Price Schedule (Excel sheet)*

Price Schedule

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Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited

Name of Work: Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project

Contract No: HORC/HRIDC/C-6/2024

PRICE SCHEDULE							
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)							
NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT	NUMBER #	TOTAL AMOUNT	
Sl. No.	Item Description	Estimated Rate in Rs. P	PERCENTAGE RATE (%) to be entered by the Bidder	Select Excess or less	TOTAL AMOUNT With Taxes Rs. P	TOTAL AMOUNT In Words	
1	Schedule 'B': Bridges, Retaining Wall & other Civil works						
1.01	SUB SCHEDULE-B1: Bridge Works-Steel Super Structure - Open Web Girder (USSOR Based item)	2,40,84,51,182.99		SELECT		INR Zero Only	
1.02	SUB SCHEDULE-B2: Reinforcement (USSOR Based items)	1,31,38,38,686.16		SELECT	0.00	INR Zero Only	
1.03	SUB SCHEDULE-B3: RCC Works (NS item)	62,81,10,519.60		SELECT	0.00	INR Zero Only	
1.04	SUB SCHEDULE-B4: Bridge Works-Pile foundation (NS items)	29,56,59,829.52		SELECT	0.00	INR Zero Only	
1.05	SUB SCHEDULE-B5: Bridge Works-Steel Super Structure-Composite Girder (USSOR Based item)	27,14,11,478.20		SELECT	0.00	INR Zero Only	
1.06	SUB SCHEDULE-B6: Backfill Material (USSOR Based items)	16,68,01,526.62		SELECT	0.00	INR Zero Only	
1.07	SUB SCHEDULE-B7: Bridge Works-Precast (NS item)	17,42,30,738.10		SELECT	0.00	INR Zero Only	
1.08	SUB SCHEDULE-B8: Concrete Works (NS items)	16,68,01,526.62		SELECT	0.00	INR Zero Only	
1.09	SUB SCHEDULE-B9: Bridge Works (USSOR Based & NS items)	5,42,41,568.20		SELECT	0.00	INR Zero Only	
1.10	SUB SCHEDULE-B10: Bridge Works-Steel Super Structure - USSOR Based items)	37,14,11,478.20		SELECT	0.00	INR Zero Only	
1.11	SUB SCHEDULE-B11: Well foundation, Concrete structure, RE wall & Other miscellaneous Works (USSOR Based & NS items)	55,97,73,876.08		SELECT	0.00	INR Zero Only	
1.12	SUB SCHEDULE-B12: Road and Building Works (DSR Based & NS items)	48,66,90,974.17		SELECT	0.00	INR Zero Only	
1.13	SUB SCHEDULE-B13: Bridge Bearing & Miscellaneous Structural Steel Works (USSOR Based & NS items)	31,19,78,644.13		SELECT	0.00	INR Zero Only	
1.14	SUB SCHEDULE-B14: P Way Works-Ballastless Track, Rails & Special Sleepers (NS items)	35,85,30,651.15		SELECT	0.00	INR Zero Only	
Total in Figures						0.00	INR Zero Only
Quoted Rate in Words							INR Zero Only

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Price Schedule

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Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited

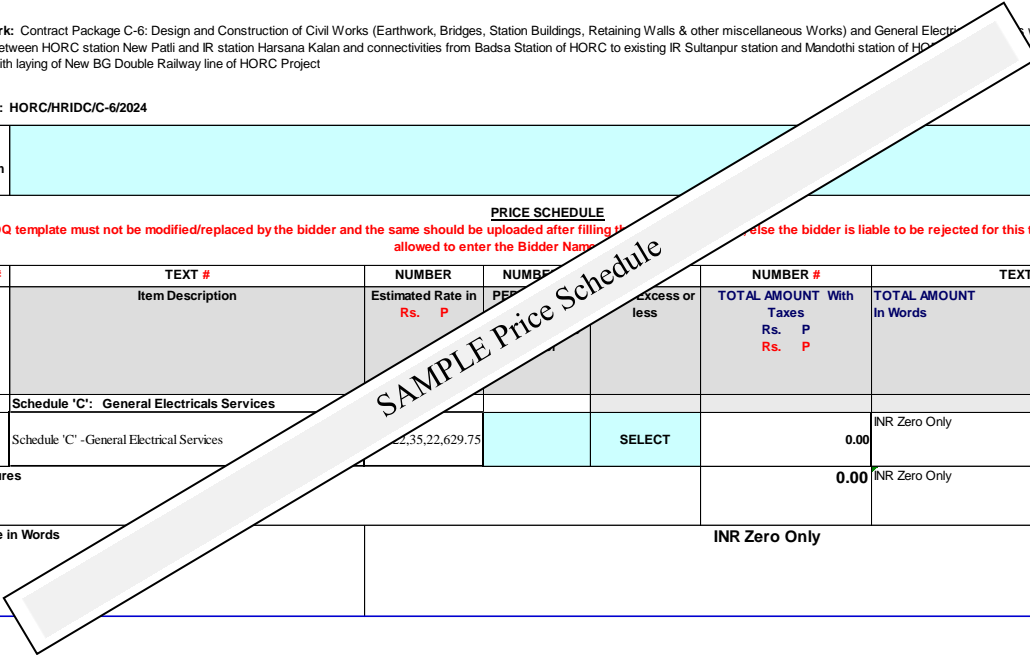
Name of Work: Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC near Masaudah Station in connection with laying of New BG Double Railway line of HORC Project

Contract No: HORC/HRIDC/C-6/2024

Name of the Bidder/ Bidding Firm / Company :

PRICE SCHEDULE
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NUMBER #	TEXT #	NUMBER	NUMBER	EXCESS OR LESS	NUMBER #	TEXT #
Sl. No.	Item Description	Estimated Rate in Rs. P	PER		TOTAL AMOUNT With Taxes Rs. P	TOTAL AMOUNT In Words
1	Schedule 'C': General Electricals Services					
1.01	Schedule 'C' - General Electrical Services	2,35,22,629.75		SELECT	0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words					INR Zero Only	



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Price Schedule

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Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited

Name of Work: Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HARC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HARC to existing IR Sultanpur station and Mandothi station of HARC to existing IR Asaudah Station connection with laying of New BG Double Railway line of HARC Project.

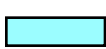
Contract No: HARC/HRIDC/C-6/2024

Name of the Bidder/ Bidding Firm / Company:

PRICE SCHEDULE

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NUMBER #	TEXT #	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Estimated Rate in Rs. P	PERCENTAGE	TOTAL AMOUNT With Taxes Rs. P	TOTAL AMOUNT In Words
1	Schedule 'D': Signalling & Telecommunication Works				
1.01	Schedule 'D' - Signalling & Telecommunication Works	1,16,45,448.00		SELECT	INR Zero Only
Total in Figures				0.00	INR Zero Only
Quote		INR Zero Only			



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Price Schedule

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Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited

Name of Work: Contract Package C-6: Design and Construction of Civil Works (Earthwork, Bridges, Station Buildings, Retaining Walls & other miscellaneous Works) and General Electrical Services works from km 61.50 to km 126.03 between HORC station New Patli and IR station Harsana Kalan and connectivities from Badsa Station of HORC to existing IR Sultanpur station and Mandothi station of HORC to existing IR Asaudah Station in connection with laying of New BG Double Railway line of HORC Project

Contract No: HORC/HRIDC/C-6/2023

PRICE SCHEDULE-SUMMARY SHEET			
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)			
NUMBER #	TEXT #	NUMBER #	TOTAL AMOUNT
Sl. No.	Item Description	TOTAL AMOUNT With Taxes Rs. P Rs. P	In Words
1	Schedule A: Lumpsum component of Works		INR Zero Only
2	Schedule 'B': Bridges, Retaining Wall & other Civil works	0.00	INR Zero Only
3	Schedule 'C': General Electricals Services	0.00	INR Zero Only
4	Schedule 'D': Signalling & Telecommunication Works	0.00	INR Zero Only
5	Provisional Sums	10,00,00,000.00	INR Ten Crore Only
Total in Figures		10,00,00,000.00	INR Ten Crore Only
Quoted Price		INR Ten Crore Only	

 *Tenderer is only required to fill the information in the boxes highlighted with cyan colour in Price Schedule (Excel sheet)

Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Non-Consulting Services in Bank-Financed Procurement

In reference to ITT 4.8 and 5.1, for the information of the Tenderers, at the present time, firms, goods and services from the following countries are excluded from this Tendering process:

Under ITT 4.8 (a) and 5.1: *None*

Under ITT 4.8 (b) and 5.1: *None*

Section VI - Prohibited Practices

1. The Bank requires that the Recipient (and all other beneficiaries of the Bank financing), as well as tenderers, suppliers, contractors, concessionaires and consultants under Bank-financed contracts for the Project, observe the highest standard of transparency and integrity during the procurement, execution and implementation of such contracts.
2. Definitions. In pursuance of this policy, the Bank defines the terms set forth below as Prohibited Practices:
 - (a) “**coercive practice**” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of a party to influence improperly the actions of a party;
 - (b) “**collusive practice**” means an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - (c) “**corrupt practice**” means the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - (d) “**fraudulent practice**” means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation.
 - (e) “**misuse of resources**” means improper use of the Bank’s resources, carried out either intentionally or through reckless disregard;
 - (f) “**obstructive practice**” means any of the following practices: (i) deliberately destroying, falsifying, altering or concealing of evidence material to a Bank investigation; (ii) making false statements to investigators in order to materially impede a Bank investigation into allegations of a Prohibited Practice; (iii) failing to comply with requests to provide information, documents or records in connection with a Bank investigation; (iv) threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to a Bank investigation or from pursuing the investigation; or (v) materially impeding the exercise of the Bank’s contractual rights of audit or inspection or access to information; and
 - (g) “**theft**” means the misappropriation of property belonging to another party.
3. Any occurrence, or suspected occurrence, of a Prohibited Practice in the procurement, award, or implementation of a Bank-financed contract is dealt with in accordance with the provisions of the Bank’s Policy on Prohibited Practices. Suppliers, contractors, service providers and consultants selected pursuant to the provisions of Section II and concessionaires selected pursuant to paragraph 14.3 of the Bank’s Procurement Instructions for Recipients, as well as the Recipient shall fully cooperate with the Bank (or a cofinancier undertaking an investigation pursuant to paragraph 6.1 of the Bank’s Procurement Instructions for Recipients) in any investigation into an alleged Prohibited Practice to be carried out pursuant to the Policy on Prohibited Practices, and permit the Bank or its representative (including such co-financier) to

inspect such of their accounts and records as may be relevant for such investigation and to have such records and accounts audited by the auditors appointed by the Bank.

4. Provisions to this effect are included in the Legal Agreements and the procurement contracts with such entities.
5. If the Project is financed by a sovereign-backed loan, the Bank (or, where relevant, a co-financier having undertaken an investigation pursuant to paragraph 6.1 of the Bank's Procurement Instructions for Recipients):
 - (a) may take any of the following additional actions in connection with a Prohibited Practice under the Project:
 - (i) reject a proposal for award if it determines that the tenderer recommended for award, or any of its personnel, or its agents, or its sub-consultants, subcontractors, service providers, suppliers or their employees, has, directly or indirectly, engaged in a prohibited practice in competing for the contract in question; and
 - (ii) cancel the undisbursed portion of the loan allocated to a contract (and require reimbursement of the disbursed portion of the loan allocated to the contract) if it determines at any time that representatives of the Recipient or of a recipient of any part of the proceeds of the loan engaged in a prohibited practice during the procurement, administration or implementation of the contract in question; and
 - (b) requires that a clause be included in tender documents and in contracts financed by the Bank loan, requiring tenderers, suppliers and contractors, and their subcontractors, agents, personnel, consultants, service providers, or suppliers, to permit the Bank (and a co-financier undertaking an investigation pursuant to paragraph 6.1 of the Bank's Procurement Instructions for Recipients) to inspect all accounts, records, and other documents relating to the submission of tenders and contract performance, and to have them audited by auditors appointed by the Bank.