

# **Tender Document for Works**

## **(Two-Envelope Tendering Process Without Prequalification)**

### **Procurement of:**

**Contract Package SYS-1:** Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).

**Tender No:** HORC/HRIDC/SYS-1/2023

**Contract title:** OHE, Power Supply System, SCADA and ROCS Works on EPC basis (SYS-1)

**Project:** Haryana Orbital Rail Corridor Project

**Loan No.:** 000370

**Employer:** Haryana Orbital Rail Corporation Limited

**Country:** INDIA

**Issued on:** 02.06.2023

## Summary

### Specific Procurement Notice (SPN)

#### **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

# **PART 1 – Tendering Procedures**

## Table of Contents

Section I - Instructions to Tenderers .....	5
Section II - Tender Data Sheet (TDS).....	33
Section III. Evaluation and Qualification Criteria .....	51
Section IV - Tender Forms .....	78
Section V - Eligible Countries .....	212
Section VI - Prohibited Practices .....	213

# Section I - Instructions to Tenderers (ITT)

## Contents

<b>A. General.....</b>	<b>5</b>
1. Scope of Tender .....	5
2. Source of Funds .....	5
3. Prohibited Practices.....	6
4. Eligible Tenderers .....	6
5. Eligible Materials, Equipment, and Services .....	9
<b>B. Contents of Tender Document .....</b>	<b>9</b>
6. Sections of Tender Document.....	9
7. Clarification of Tender Document, Site Visit, Pre-Tender Meeting.....	10
8. Amendment of Tender Document.....	11
<b>C. Preparation of Tenders.....</b>	<b>11</b>
9. Cost of Tendering.....	11
10. Language of Tender .....	11
11. Documents Comprising the Tender .....	11
12. Letter of Tender and Schedules .....	13
13. Alternative Tenders.....	13
14. Tender Prices and Discounts.....	13
15. Currencies of Tender and Payment.....	15
16. Documents Comprising the Technical Proposal.....	15
17. Documents Establishing the Eligibility and Qualifications of the Tenderer .....	15
18. Period of Validity of Tenders.....	15
19. Tender Security .....	16
20. Format and Signing of Tender .....	17
<b>D. Submission of Tenders.....</b>	<b>18</b>
21. Sealing and Marking of Tenders.....	18
22. Deadline for Submission of Tenders.....	19
23. Late Tenders.....	19

24. Withdrawal, Substitution, and Modification of Tenders.....	19
<b>E. Public Opening of Technical Parts of Tenders.....</b>	<b>20</b>
25. Technical Part Opening.....	20
<b>F. Evaluation of Tenders – General Provisions.....</b>	<b>21</b>
26. Confidentiality .....	21
27. Clarification of Tenders .....	21
28. Deviations, Reservations, and Omissions .....	22
29. Nonmaterial Nonconformities.....	22
<b>G. Evaluation of Technical Parts of Tenders .....</b>	<b>22</b>
30. Evaluation of Technical Parts .....	22
31. Determination of Responsiveness .....	23
32. Qualification of the Tenderers .....	23
33. Subcontractors.....	24
<b>H. Public Opening of Financial Parts of Tenders .....</b>	<b>24</b>
34. Public Opening of Financial Parts .....	24
<b>I. Evaluation of Financial Parts.....</b>	<b>26</b>
35. Evaluation of Financial Parts .....	26
36. Correction of Arithmetical Errors .....	27
37. Conversion to Single Currency .....	27
38. Provision for Development of Domestic Industry .....	27
39. Comparison of Tenders .....	27
40. Abnormally Low-Priced Tenders.....	28
41. Unbalanced or Front-Loaded Tenders .....	28
42. Most Advantageous Tender .....	29
43. Employer’s Right to Accept Any Tender, and to Reject Any or All Tenders .....	29
44. Standstill Period .....	29
45. Notification of Intention to Award.....	29
<b>J. Award of Contract .....</b>	<b>30</b>
46. Award Criteria.....	30
47. Notification of Award .....	30
48. Debriefing by the Employer.....	31
49. Signing of Contract .....	31

---

50. Performance Security .....	31
51. Procurement Related Complaint .....	32

# 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, Equipment, and Services**

5.1 The materials, equipment and services to be supplied under the Contract and financed by the Bank may have their origin in any 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 Document, Site Visit, Pre-Tender Meeting**

- 7.1 A Tenderer requiring any clarification of the Tender Document shall contact the Employer in writing at the Employer's address specified 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 22.07.2022, 1800 Hrs IST. 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 ITT34.
- 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 Tenderers<sup>1</sup>) 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

---

<sup>1</sup>An 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.

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
  - (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.

<b>A. General</b>	
<b>ITT 1.1</b>	<p>The reference number of the SPN/Tender is: <b>HORC/HRIDC/SYS-1/2023</b></p> <p>The Employer is: <b>Haryana Orbital Rail Corporation Limited (HORCL)</b></p> <p>The name of the Tender is: <b>Contract Package SYS-1: Design, Supply, Installation, Testing &amp; Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-) 2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).</b></p> <p>The number and identification of lots (contracts) comprising this Tender is: <b>Contract Package (SYS-1)</b></p>
<b>ITT 1.2(a)</b>	<p><b>Electronic – Procurement System</b></p> <p>The Employer shall use the following electronic-procurement system to manage this Tendering process:</p> <p><b>E-procurement portal of Govt. of Haryana (<a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>)</b></p>
<b>ITT 2.1</b>	<p>The Recipient is: <b>Haryana Orbital Rail Corporation Limited (HORCL) through Government of Haryana</b></p> <p>The Bank Loan Amount for Part A project - <b>USD 128 million</b></p> <p>The Bank Loan Amount for Part B project - <b>USD 272 million</b></p> <p>Total Bank Loan Amount for HORC Project -<b>USD 400 million</b></p> <p>The name of the Project is: <b>Haryana Orbital Rail Corridor (HORC)</b></p>
<b>ITT 4.1</b>	<p>Maximum number of members in the JV shall be: <b>Three (03)</b></p>

<b>ITT 4.1</b>	<p><b>Add the following after the last sentence of Clause 4.1</b></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>
<b>ITT 4.4</b>	<p><b>Add the following after the last sentence of Clause 4.4</b></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 Application 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>
<b>ITT 4.5</b>	<p>A list of debarred firms and individuals is available on the Bank's external website: <a href="https://www.aiib.org/debarment/">https://www.aiib.org/debarment/</a></p>
<b>ITT 6.3</b>	<p><b>Replace ITT 6.3 with the following:</b></p> <p>The complete Tender Document can be viewed/ downloaded by the Tenderer from e-procurement portal of Govt. of Haryana <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>. 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 <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a> .</p>
<b>B. Contents of Tender Document</b>	
<b>ITT 7.1</b>	<p>For <b><u>Clarification of Tender purposes</u></b> only, the Employer's address is:</p> <p><b>Attention:</b> GM/IE&amp;A</p> <p><b>Street address:</b> Haryana Rail Infrastructure Development Corporation Limited (HRIDC), Plot no.143, Railtel Tower, Sector-44</p> <p><b>Floor:</b> 5th floor</p> <p><b>City:</b> Gurugram</p> <p><b>ZIP code:</b> 122003</p> <p><b>Country:</b> India</p>

	<b>Telephone:</b> +91 8860124749 <b>E-mail:</b> horc.etendering@gmail.com																										
<b>ITT 7.2</b>	<b>Add the following at the end of Para 7.2:</b> <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 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>No Site visit will be arranged by the Employer.</p>																										
<b>ITT 7.4</b>	<b>Replace the entire Sub-Clause 7.4 with the following:</b> <p>A Pre-Tender Meeting will take place through online Video conferencing (VC) as well as offline in the Conference room of HRIDC office, Plot No 143, Railtel Tower, Sector-44, Gurugram, Haryana-122003 at the following date and time:</p> <p><b>Date: 17.06.2023</b></p> <p><b>Time: 11.00 hrs. IST</b></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"> <thead> <tr> <th><b>Query No.</b></th> <th><b>Reference to Tender Document (Clause/ Para No. &amp; Page No.)</b></th> <th><b>Brief Description of Clause/ Para No.</b></th> <th><b>Query Raised</b></th> </tr> </thead> <tbody> <tr> <td>1.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>etc.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			<b>Query No.</b>	<b>Reference to Tender Document (Clause/ Para No. &amp; Page No.)</b>	<b>Brief Description of Clause/ Para No.</b>	<b>Query Raised</b>	1.				2.				3.				4.				etc.			
<b>Query No.</b>	<b>Reference to Tender Document (Clause/ Para No. &amp; Page No.)</b>	<b>Brief Description of Clause/ Para No.</b>	<b>Query Raised</b>																								
1.																											
2.																											
3.																											
4.																											
etc.																											

	<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>
<b>ITT 7.5</b>	<p><b>Replace ITT 7.5 with the following:</b></p> <p>The Tenderer is requested to submit any questions in writing, to reach the Employer not later than <b>15.06.2023, 18.00 Hrs IST.</b></p>
<b>ITT 7.6</b>	<p><b>Replace ITT 7.6 with the following:</b></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 e-Procurement portal, <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>. 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/Corrigendum pursuant to ITT 8.</p>
<b>ITT 8.2</b>	<p><b>Replace ITT 8.2 with the following:</b></p> <p>Any addendum/Corrigendum issued shall be part of the Tender Document and shall be uploaded on eProcurement portal, <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>. The onus is on the Tenderers to visit the e-Tendering portal to see the Addenda/Corrigenda published by the Employer.</p>
<b>C. Preparation of Tenders</b>	
<b>ITT 10.1</b>	<p>The language of the Tender is: <b>English</b></p> <p>All correspondence exchange shall be in <b>English</b> language.</p> <p><b>Add the following at the end of Sub-Clause ITT 10.1</b></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.</p>

<b>ITT 11.1</b>	<p><b>Replace ITT 11.1 with the following:</b></p> <p>The Tenderer shall submit their Tender online on eProcurement portal <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a> 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. Tenderer 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>
<b>ITT 11.2</b>	<p><b>Replace the entire Sub-Clause 11.2 with the following:</b></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>
<b>ITT 11.3</b>	<p><b>Replace the entire Sub-Clause 11.3 with the following</b></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>
<b>ITT 13.1</b>	Alternative Tenders <b>shall not be</b> considered.
<b>ITT 13.2</b>	Alternative times for completion <b>shall not be</b> permitted.
<b>ITT 13.4</b>	Alternative technical solutions <b>shall not be</b> permitted.
<b>ITT 14.2</b>	<p><b>Replace ITT 14.2 with the following: -</b></p> <p>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.</p> <p>The Tenderer shall quote single percentage (%) Excess (+) or Less (-) on the estimated amount for Sub-Schedule ‘B1’, Sub-Schedule ‘B2’, Sub-Schedule ‘B3’, Sub-Schedule ‘B4’, Sub-Schedule ‘B5’, Sub-Schedule ‘B6’, Sub-Schedule ‘B7’ and Sub-Schedule ‘B8’ in the prescribed place of Price Schedule in MS-Excel file.</p>
<b>ITT 14.4</b>	<p><b>Replace ITT 14.4 with the following: -</b></p> <p>As there is no lot in this Contract Package, no discounts shall be quoted by the Tenderers.</p>



<b>ITT 15.1</b>	<p>The currency(ies) of the Tender and the payment currency(ies) shall be as described below:</p> <p>The prices shall be quoted by the Tenderer in the Price Schedule in Indian Rupees (<b>INR</b>) 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>
<b>ITT 18.1</b>	<p>The Tender validity period shall be <b>180 days</b> after the Tender submission deadline date.</p>
<b>ITT 19.1</b>	<p>The Tenderer shall furnish a Tender Security for an amount of <b>INR 10,000,000.00 (INR Ten Million only) or the equivalent amount in a freely convertible currency.</b> 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 3.4.2 (a), Section III, EQC.</p>
<b>ITT 19.2</b>	<p>Not Applicable</p>
<b>ITT 19.3</b>	<p><b>Replace the ITT 19.3 with the following:</b></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"> <li>(i) a scheduled bank (excluding co-operative banks) in India, or</li> <li>(ii) a Foreign Bank having arrangement with a nationalized bank or scheduled banks (excluding co-operative banks) in India;</li> </ul> <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</p>

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.

The Issuing Bank shall send the SFMS to:

Beneficiary: Haryana Rail Infrastructure Development Corporation Limited

Bank Name: State Bank of India

Account Number: 38848977231

Branch: SME Branch, Sector 8, Chandigarh

IFSC Code: SBIN0011705

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.

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 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:

**GM/IE&A,**

Haryana Rail Infrastructure Development Corporation Limited,

Plot No 143, 5th Floor, Railtel Tower,

Sector-44, Gurugram,

Haryana-122003

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.

**Notes:**

	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>
<b>ITT 20.1</b>	<p><b>Replace ITT 20.1 with the following:</b></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 (<a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>) only in accordance with the requirements of the Tender Document.</p>
<b>ITT 20.3</b>	<p>The written confirmation of authorization to sign on behalf of the Tenderer shall consist of:</p> <ol style="list-style-type: none"> <li>(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 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.</li> <li>(b) In case of Proprietary Tenderers, Power of Attorney by the Proprietor.</li> <li>(c) In case of Partnership firms, Power of Attorney duly signed by all the Partners.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ol>

	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.
<b>D. Submission of Tenders</b>	
<b>ITT 21</b>	<p><b>Replace ITT 21 with the following:</b></p> <p>21.1 Tenderers shall upload their tender submission online on eProcurement portal (i.e. <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>) 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><b>21.4 Instructions for Online Tender Submission</b></p> <p>The Tenderers are required to submit soft copies of their Tenders electronically on the eProcurement portal of Government of Haryana i.e. <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>, using valid Digital Signature Certificates. The instructions given below are meant to assist the Tenderers in registering on the eProcurement Portal, prepare their Tenders in accordance with the requirements and submitting their Tenders online on the eProcurement Portal.</p> <p><b>Registration:</b></p> <ol style="list-style-type: none"> <li>i) Tenderers are required to enroll on the above-mentioned eProcurement portal by clicking on the link “<b>Online Bidder Enrollment</b>” on the Portal which is free of charge.</li> <li>ii) As part of the enrolment process, the Tenderers will be required to choose a unique username and assign a password for their accounts.</li> <li>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.</li> </ol> <p><b>A. Obtaining a Digital Certificate:</b></p> <ol style="list-style-type: none"> <li>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</li> </ol>

	<p>Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.</p> <p>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 – <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a></p> <p>iii. 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.</p> <p>iv. The Tenderer must ensure that he/she comply by the online available important guidelines at the portal <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a> for Digital Signature Certificate (DSC) including the e-Token carrying DSCs.</p> <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><b>Mr. Anuj Mahajan</b>  <b>E - mail:</b> <a href="mailto:amahajan@nic.in">amahajan@nic.in</a>, <a href="mailto:eprocnichry@yahoo.com">eprocnichry@yahoo.com</a>  <b>Help Desk:</b> 0120-4001002, 0120-4200462, 0120-4001005, 0120-6277787, 0172-2700275.</p> <p>v. Tender for a particular tender must be submitted online using the digital certificate (Encryption &amp; 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.</p> <p>Hence, the users are advised <b>to keep a backup of the certificate</b> and also keep the copies at safe place under proper security (for its use in case of emergencies).</p> <p>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</p>
--	--

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. This shall in no way relieve the Tenderer from the requirement of submission of Power of Attorney by the Tenderer in terms of ITT 20.3 and ITT 20.4 of Tender Document.

- 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. Opening of an Electronic Payment Account: (Purchase of Tender Document - Online)**

For purchasing the Tender Document online, Tenderers are required to pay the Tender Document fee online using the electronic payment gateway service through their Debit Cards & Internet Banking accounts. 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>

**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 **02.06.2023 (17:00 Hrs. IST) to 20.07.2023 (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 a freely convertible 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.

**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 e-Procurement Portal. After uploading the document, Tenderer must sign the document digitally.

	<p><b>Step 4:</b> After confirming the details of payment, Tenderer must Select option "Confirm to pay"</p> <p><b>Step 5:</b> Tenderer must enter the details of BG as EMD fee detail on EMD offline payment page.</p> <p><b>Note:</b> 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.</p> <p><b>I. Preparation &amp; Submission of online Applications/Tenders:</b></p> <p>i. Tender shall mandatorily be submitted online following the instruction appearing on the screen.</p> <p>ii. <b>Scan copy of Documents to be submitted/uploaded for Technical Part under online PQQ/ Technical Envelope:</b></p> <p>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.</p> <p>iii. <b>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 submitted mandatorily online under Commercial Envelope and original not to be submitted manually.</b></p> <p><b>NOTES:</b></p> <p>(A) <i>Tenderers participating in online tenders shall check the validity of his/her Digital Signature Certificate before participating in the online Tenders at the portal <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>.</i></p> <p>(B) <i>For help manual, please refer to the ‘Home Page’ of the eProcurement website at <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>.</i></p>
ITT 22.1	<p><b>Replace ITT 22.1 with the following:</b></p> <p>The Tender submission is through the eProcurement portal only (i.e. <a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>) 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><b>The start date for Tender submission is:</b> Date: <b>12.07.2023</b> Time: <b>1100 hrs. IST</b></p> <p><b>The deadline for Tender submission is:</b> Date: <b>20.07.2023</b> Time: <b>1500 hrs. IST</b></p>
<b>ITT 23.1</b>	<p><b>Replace ITT 23.1 with the following:</b></p> <p>Submission of Tenders shall be closed on eProcurement portal on the date &amp; time of submission as prescribed in ITT 22.1 after which no tender can be uploaded.</p>
<b>ITT 24</b>	<p><b>Replace ITT 24 with the following:</b></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 (<a href="https://etenders.hry.nic.in">https://etenders.hry.nic.in</a>) and upload/ resubmit digitally signed modified tender. For withdrawal of tender, Tenderer has to click on withdrawal icon at e- procurement portal and can withdraw its e-tender. Before withdrawal of a tender, it may 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 on the Letter of Tender or any extension thereof.</p>
<b>E. Public Opening of Technical Parts of Tenders</b>	
<b>ITT 25</b>	<p><b>Replace ITT 25 with the following:</b></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: <b>Street Address:</b> Haryana Rail Infrastructure Development Corporation Limited (HRIDC), Plot no.143, Railtel Tower, Sector-44 <b>Floor/ Room number:</b> 5<sup>th</sup> floor <b>City:</b> Gurugram</p>

	<p><b>Zip code:</b> 122003  <b>Country:</b> INDIA  <b>Date:</b> 20.07.2023</p> <p>Time: <b>1530 hrs IST</b></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> <ul style="list-style-type: none"> <li>(a) the name of the Tenderer;</li> <li>(b) the presence of a Tender Security; and</li> <li>(c) any other details as the Employer may consider appropriate.</li> </ul> <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>
--	---

<b>F. Evaluation of Tenders – General Provisions</b>	
<b>ITT 27</b>	<p><b>Replace ITT 27 with the following:</b></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>
<b>ITT 29.3</b>	Not Applicable
<b>G. Evaluation of Technical Parts of Tenders</b>	
<b>ITT 30.2</b>	Not Applicable
<b>ITT 32.4</b>	<p><b>Replace ITT 32.4 with the following:</b></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>
<b>ITT 33.1</b>	Subcontractor is permitted for the activity specified in ITT 33.3.
<b>ITT 33.2</b>	Maximum allowable accumulated value of work to be subcontracted (as a percentage of the Accepted Contract Amount)- 10%
<b>ITT 33.3</b>	Specialist Subcontractor meeting the qualification requirement specified in Appendix -13: Subcontractor for ROCS System, Section VII-1: General Specifications (GS), Part 2 Employer’s Requirements is permitted for Rigid Overhead Conductor Systems (ROCS) works.

<b>H. Public Opening of Financial Parts of Tenders</b>	
<b>ITT 34</b>	<p><b>Replace ITT 34 with the following:</b></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, 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"> <li>(a) the grounds on which their Technical Part of Tender failed to meet the requirements of the Tender Document;</li> <li>(b) their “FINANCIAL PART” shall remain unopened on the eProcurement portal;</li> <li>(c) notify them of the date, time and location of the public opening of “FINANCIAL PART” on the eProcurement portal;</li> </ul> <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"> <li>(a) their Tender has been evaluated as substantially responsive to the Tender Document requirements and met the Qualification Criteria;</li> <li>(b) their “FINANCIAL PART” on eProcurement portal will be opened at the public opening of the Financial Parts; and</li> <li>(c) notify them of the date, time and location of the public opening of the “FINANCIAL PART” as specified below: <ul style="list-style-type: none"> <li>i. The Employer shall publish a notice of the public opening of the Financial Parts on eProcurement portal.</li> <li>ii. Any interested party who wishes to attend this public opening may contact: <p style="margin-left: 20px;"><b>For the attention:</b> GM/IE&amp;A Haryana Rail Infrastructure Development Corporation Limited</p> <p style="margin-left: 20px;"><b>Email address:</b> horc.etendering@gmail.com</p> </li> </ul> </li> </ul> <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> <p style="padding-left: 40px;">(a) the name of the Tenderer whose Financial Part was opened; and</p> <p style="padding-left: 40px;">(b) the Tender price</p> <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>
<b>I. Evaluation of Financial Parts of Tenders</b>	
<b>ITT 37.1</b>	The currency that shall be used for tender evaluation and comparison purposes is <b>Indian Rupees (INR) only</b> .
<b>ITT 38.1</b>	Provisions for development of domestic industry (such as a margin of domestic preference) shall not apply.
<b>J. Award of Contract</b>	
<b>ITT 47.1</b>	<p><b>Add the following to ITT 47.1</b></p> <p>The Accepted Contract Amount shall be in <b>INR</b> only. However, the payments will be made in currencies as quoted by the Tenderer in Appendix A, Table B, Section IV-Tender Forms.</p>
<b>ITT 49.1</b>	The successful Tenderer shall submit the Beneficial Ownership Disclosure Form.
<b>ITT 51.1</b>	<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;"><b>For the attention:</b> GM/IE&amp;A</p> <p style="padding-left: 40px;">Haryana Rail Infrastructure Development Corporation Limited</p> <p style="padding-left: 40px;"><b>Email address:</b> <u><a href="mailto:horc.etendering@gmail.com">horc.etendering@gmail.com</a></u></p>

# Section III. Evaluation and Qualification Criteria

## TABLE OF CONTENTS

<b>1. General Provisions</b> .....	52
<b>1.1 Evaluation Sequence</b> .....	52
<b>1.2 Clarification from Tenderers</b> .....	52
<b>1.3 Tender Forms</b> .....	52
<b>2. Stages of Evaluation</b> .....	53
<b>2.1 Stage 1: Evaluation of Administrative Requirements</b> .....	53
<b>A. General</b> .....	53
<b>2.2 Stage 2: Evaluation of Compliance with the Qualification Requirements</b> .....	54
<b>A. General</b> .....	54
<b>B. Check Items</b> .....	54
<b>3. Qualification Criteria</b> .....	55
<b>4. Stage 3: Technical Evaluation</b> .....	70
<b>A. Procedure for Technical Evaluation</b> .....	70
<b>5. STAGE 4: Financial Evaluation</b> .....	72
<b>A. Evaluation of Compliance and Responsiveness</b> .....	72
<b>B. Detailed Financial Evaluation</b> .....	72
<b>Checklist-CL</b> .....	73

## **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 Authorised 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 and 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)

### 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	
<b>3.1 Eligibility</b>							
3.1.1	<b>Nationality</b>	Nationality in accordance with ITT 4.4	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Forms ELI – 1.1 (a), ELI – 1.1 (b) and ELI-1.2 with attachments
3.1.2	<b>Conflict of Interest</b>	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	<b>Bank Eligibility</b>	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	<b>State-owned Enterprise or Institution of the Recipient country</b>	Meets conditions of ITT 4.6	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender-Technical Part and Form ELI – 1.1 (a), ELI – 1.1 (b) and ELI-1.2 with attachments

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
3.1.5	<b>United Nations resolution or Recipient's country law</b>	Not having been excluded as a result of prohibition in the Recipient's country laws or official regulations against commercial 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.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender-Technical Part
3.1.6	<b>Share of JV members</b>	The share of JV members shall not be less than the specified percentage.	N/A	100%	30%	34%	Form ELI-1.3
<b>3.2 Historical Contract Non-Performance</b>							
3.2.1	<b>History of Non-Performing Contracts</b>	Non-performance of a contract <sup>2</sup> did not occur as a result of contractor default since 1 <sup>st</sup> April 2018 till 28	Must meet requirement	Must meet requirement	Must meet requirement <sup>3</sup>	Must meet requirement	Form CON-1

<sup>2</sup> 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.

<sup>3</sup> 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	
		days prior to deadline of Tender submission.					
3.2.2	<b>Suspension Based on Execution of Tender-Securing Declaration by the Employer</b>	Not under suspension based on-execution of a Tender/Proposal Securing Declaration pursuant to ITT 4.7 and ITT 19.9	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Letter of Tender – Technical Part
3.2.3	<b>Pending Litigation</b>	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 <sup>4</sup> will be resolved against the Tenderer.	Must meet requirement	N/A	Must meet requirement	Must meet requirement	Form CON-1
3.2.4	<b>Declaration: Litigation History</b>	Declare History of court/arbitral award decisions against the Tenderer since 1st April 2018 till 28 days prior to	Must make the declaration	N/A	Must make the declaration	Must make the declaration	Form CON-1

<sup>4</sup> The 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 1<sup>st</sup> April 2018 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	
		deadline of Tender submission.					
3.2.5	<b>Declaration: Environmental, Social, Health, and Safety (ESHS) past performance</b>	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 <sup>5</sup> 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
<b>3.3 Financial Situation and Performance</b>							
3.3.1	<b>Financial Capabilities</b>	i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other	Must meet requirement	Must meet requirement	Must meet at least 30% [Thirty percentage] of requirement	Must meet at least 40% [Forty percentage] of requirement	Form FIN-3.3.3 (Sources of Finance for the subject Contract)

<sup>5</sup>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	
		financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as <b>INR 200 million or the equivalent amount in a freely convertible currency</b> for the subject contract ( <b>i.e. SYS-1</b> ).					
		(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 should be <b>positive</b> and b) the Net-Worth during the last financial year must be <b>positive</b> .	Must meet requirement	Must meet requirement	Must meet requirement	Must meet 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>*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 <b>Form CON-1</b> item 2 and 3), will be subtracted from the Average Net Worth calculated above.</p>					
3.3.2	<b>Average Annual Construction Turnover</b>	Minimum average annual construction turnover of <b>INR 1800 million or the equivalent amount in a freely convertible currency</b> calculated as total certified payments received for contracts in progress and/or completed within the last three financial years divided by three.	Must meet requirement	Must meet requirement	Must meet 30% <i>[Thirty percentage]</i> of the requirement	Must meet 40% <i>[Forty percentage]</i> of the requirement	Form FIN-3.3.2

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
3.3.3	<b>Bid Capacity</b>	<p>The Tenderer shall also demonstrate to the satisfaction of the Employer, that it has adequate <b>Bid capacity</b> for the works currently in progress and future contract commitments.</p> <p>The <b>available Bid capacity</b> should be equal to or more <b>than INR 5000 million or the equivalent amount in a freely convertible currency</b>. The available Bid capacity will be calculated as per item no. 1 of Form FIN-3.3.4.</p>	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
<b>3.4 Experience</b>							
3.4.1	<b>General Construction Experience</b>	Experience under infrastructure contracts involving electrical works in the role of Prime Contractor, JV Member or Management Contractor or a Sub-Contractor starting	Must meet requirement	N/A	Must meet requirement	Must meet requirement	Form EXP-3.4.1



No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		1 <sup>st</sup> April 2016 till 28 days prior to deadline of Tender submission.					
3.4.2 (a)	Specific Construction & Contract Management Experience	Participation, as a Prime Contractor, Joint venture <sup>6</sup> Member or Management Contractor <sup>7</sup> or Sub-Contractor <sup>8</sup> in at least	Must meet requirement of either (i) or (ii) or (iii)	Must meet requirement of either (i) or (ii) or (iii)	Must have the experience of execution of at least one “similar work” [“Railway Project” <sup>9</sup> involving supply, installation, testing & commissioning of 1 x 25kV or 2 x	Must have the experience of execution of at least one “similar work” [“Railway Project” <sup>9</sup> involving supply, installation, testing & commissioning of 1 x 25kV or 2 x	

<sup>6</sup> 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).

<sup>7</sup> 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) 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), the offer of the Tenderer shall be summarily rejected.

<sup>8</sup> If a tenderer has successfully completed a work as Sub-Contractor, the work experience certificate issued only by the Employer (owner of the work) for such work to Sub-Contractor shall be considered for the purpose of fulfillment of credentials. Tenders submitted without this documentary proof shall be summarily 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’ 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 shall be summarily rejected.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>(i) One “similar work” [“Railway Project”<sup>9</sup> involving supply, installation, testing &amp; commissioning of 1 x 25kV or 2 x 25kV, Overhead Electrification (OHE) and supply, installation, testing &amp; commissioning of Traction Sub Station (TSS)] of minimum value of <b>INR 3000.00 million or the equivalent amount in a freely convertible currency.</b></p> <p>The above contract must involve supply, installation, testing &amp; commissioning of minimum <b>110 Tkm</b> OHE of 1 x 25kV/ 2 x 25kV and minimum <b>one (01)</b> Traction Sub</p>			<p>25kV, Overhead Electrification (OHE) <b>OR</b> supply, installation, testing &amp; commissioning of Traction Sub Station (TSS)] of minimum value of <b>INR 1500.00 million or equivalent amount in any freely convertible foreign currency.</b></p> <p>The above contract must involve supply, installation, testing &amp; commissioning of minimum <b>55 Tkm</b> OHE of 1 x 25kV/ 2 x 25kV</p>	<p>25kV, Overhead Electrification (OHE) <b>OR</b> supply, installation, testing &amp; commissioning of Traction Sub Station (TSS)] of minimum value of <b>INR 1500.00 million or equivalent amount in any freely convertible foreign currency.</b></p> <p>The above contract must involve supply, installation, testing &amp; commissioning of minimum <b>55Tkm</b></p>	

<sup>9</sup> “Railway Projects” includes projects of Railway/ Metro Rail/ RRTS/High Speed Rail.

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>Station (TSS) of 1 x 25kV/ 2 x 25kV.</p> <p style="text-align: center;"><b>OR</b></p> <p>(ii) two “similar works” [“Railway Project”<sup>9</sup> involving supply, installation, testing &amp; commissioning of 1 x 25kV or 2 x 25kV, Overhead Electrification (OHE) <b>OR</b> supply, installation, testing &amp; commissioning of Traction Sub Station (TSS)] each of minimum value of <b>INR 2000.00 million or the equivalent amount</b></p>			<p style="text-align: center;"><b>OR</b></p> <p>supply, installation, testing &amp; commissioning of minimum 1 TSS of 1 x 25kV/ 2 x 25kV that has been successfully <b>completed or substantially completed<sup>10</sup></b> since 1st April 2016 till 28 days prior to deadline of Tender submission.</p>	<p>OHE of 1 x 25kV/ 2 x 25kV</p> <p style="text-align: center;"><b>OR</b></p> <p>supply, installation, testing &amp; commissioning of minimum 1 TSS of 1 x 25kV/ 2 x 25kV that has been successfully <b>completed or substantially completed<sup>10</sup></b> since 1st April 2016 till 28 days prior to deadline of Tender submission.</p>	

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p><b>in a freely convertible currency.</b></p> <p>Both the above contracts combined together must involve supply, installation, testing &amp; commissioning of minimum <b>145 Tkm</b> OHE of 1 x 25kV/ 2 x 25kV and minimum <b>one (01)</b> TSS of 1 x 25kV/ 2 x 25kV.</p> <p style="text-align: center;"><b>OR</b></p> <p>(iii) three “similar works” [“Railway Project”<sup>9</sup> involving supply, installation, testing &amp; commissioning of 1 x 25kV or 2 x 25kV, Overhead Electrification (OHE) <b>OR</b> supply, installation, testing &amp;</p>					

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		<p>commissioning of Traction Sub Station (TSS)] each of minimum value of <b>INR 1500.00 million or the equivalent amount in a freely convertible currency</b></p> <p>All the above three contracts combined together must involve supply, installation, testing &amp; commissioning of minimum <b>165 Tkm</b> OHE of 1 x 25kV/ 2 x 25kV and minimum <b>one (01)</b> TSS of 1 x 25kV/ 2 x 25kV.</p> <p>The works mentioned in (i) or (ii) or (iii) above must have been successfully completed or substantially</p>					

No.	Subject	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Members Combined	Each Member	Lead Member	
		completed <sup>10</sup> since 1st April 2016 till 28 days prior to deadline of Tender submission and that are similar to the proposed works.					

<sup>10</sup> Substantial completion shall be based on 80% or more of the original value of works completed under the contract and Completion Certificate /Provisional Completion Certificate/ Provisional Acceptance Certificate (PAC) has been issued by the Employer/Independent Engineer or CRS authorization has been received or train operation started under the Contract.

**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 (a) credit shall be given for execution of that quantity of the specified key activity executed by the firm as part of a JV, duly certified by the Employer. If the Employer'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 Certificate/ JV Agreement.*
4. *In case a JV quoting for the Tender has executed similar work specified in Sub-Clause 3.4.2(a) with the same constitution of JV, the requirement specified to be met under Sub-Clause 3.4.2(a) 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:-*

$$A = Bx [1.05]^{N/365}$$

*Where*

*A = updated value of work on deadline for submission of Tenders.*

*B = 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.*



### Stage 3: Technical Evaluation

#### A. Procedure for Technical Evaluation

- (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.	Contractor's Representative and Key Personnel as per the List given in Table 1 below	Form PER-1 and Form 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) 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	B. Tech in Electrical Engineering	1	Minimum total experience of 10 years out of which, minimum 5 years as In-charge in Electrification projects of Railway/ DFC/ Metro/ RRTS
2.	Senior Engineer (OHE)	B. Tech /Diploma in Electrical Engineering	1	Minimum total experience of 03/05 years out of which minimum 02/03 years (degree/diploma) in Project of 25 kV OHE in Railway/DFC/Metro/RRTS

<i>S. No.</i>	<i>Designation</i>	<i>Qualification</i>	<i>Minm. Nos. Required</i>	<i>Experience Level</i>
3.	Senior Engineer (PSI)	B. Tech /Diploma in Electrical Engineering	1	Minimum total experience of 03/05 years out of which minimum 02/03 years (degree/diploma) in Traction Substations Project of Railway/DFC/Metro/RRTS

The Tenderer shall provide details of the Contractor's Representative and Key Personnel in the relevant Forms PER1 and PER-2 in Section IV, Tender Forms.

**(ii) Key Equipment**

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

**Table 2: Equipment**

<b>S. No.</b>	<b>Equipment Type</b>	<b>Minimum Number required</b>
1	Mast Erection Crane	1
2	Ladder Trolley	1
3	Special Trolley for Wiring	1

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

- (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.

#### **4. 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) After passing the above requirements, the Tender will then proceed for Financial Part evaluation in accordance with ITT 35.
- (b) In principle, the lowest evaluated Tender resulting from ‘A’ above will move to next stage as per ITT “J. Award of Contract”, described in ITT Clauses 46 to 50.

**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		

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
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		
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 TP-1: Site Organization	ITT 16.1 and Appendix A of Section IV		
26.	Form TP-2: Outline Method Statement	ITT 16.1 and Appendix A of Section IV		
27.	Form TP-3: Work Execution Programme	ITT 16.1 and Appendix A of Section IV		
28.	Form EQU: Equipment	ITT 16.1 and Appendix A of Section IV		
29.	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
30.	Form PER – 2: Resumé of Proposed Personnel	ITT 16.1 and Appendix A of Section IV		
31.	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		

**Note:**

- (i) **The check list is indicative and not exhaustive. The Tenderer must go through the complete tender documents and submit the required documents accordingly.**
- (ii) **If any of the above form or criteria is not applicable to the Tenderer, then they can simply indicate N.A. against the relevant column**
- (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.**

## B. FINANCIAL PART

The Financial Part is provided in the Tender Documents in the form of MS-EXCEL file and PDF file. The Contract Price for the Works shall be quoted in the MS-EXCEL file provided in the e-procurement portal. The Tenderer shall download the MS-EXCEL file and after quoting their Contract Price, upload the same along with other PDF documents of Financial Part mentioned in (a) below as a ZIP file on e-procurement portal. **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.

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 the following Schedules:

Schedule	Description	Remarks
A	Lump Sum component of Works	Quoted the total lump sum price for Schedule 'A'
B	OHE works for IR Connectivity and Feeder (Harsana Kalan IR SSP to New Harsana Kalan OHE)	

<b>Sub-Schedule</b>	<b>Description</b>	
B 1	General	Quoted single percentage (%) Excess (+) or Less (-) on the estimated amount for Sub-Schedule 'B1', Sub-Schedule 'B2', Sub-Schedule 'B3', Sub-Schedule 'B4', Sub-Schedule 'B5', Sub-Schedule 'B6', Sub-Schedule 'B7' and Sub-Schedule 'B8' in the prescribed place of Price Schedule in MS-Excel file of Financial Part.
B 2	Concrete	
B 3	Ferrous	
B 4	Non Ferrous	
B 5	Catenary & Contact wire	
B 6	Insulators	
B 7	SCADA at Harsana Kalan IR SSP	
B8	Non Schedule (NS) Items	

**(b) In MS-Excel File**

Quoted Price Schedule for the Works against each Schedule.

I hereby confirm that:

- a. 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.
- b. All the pages of Tender submission are properly indexed and numbered.

Seal:

Date:

(Signature of Authorized representative of Tenderer)





# Section IV - Tender Forms

## Table of Forms

<b>Letter of Tender – Technical Part</b> .....	<b>80</b>
<b>Appendix A to Technical Part: Technical Proposal</b> .....	<b>83</b>
Form TP-1 Site Organization .....	84
Form TP-2 Outline Method Statement .....	85
Form TP-3 Work Execution Programme .....	86
<b>Appendix B to Technical Part: Equipment</b> .....	<b>87</b>
Form EQU: Equipment .....	87
<b>Appendix C to Technical Part: Key Personnel</b> .....	<b>89</b>
Form PER-1 .....	89
Form PER-2: .....	91
<b>Appendix D to Technical Part: Tenderer’s Qualification</b> .....	<b>93</b>
Form ELI-1.1 (a).....	94
Form ELI-1.1 (b).....	95
Form ELI-1.2 .....	96
Form ELI-1.3 .....	98
Form ELI-1.4 .....	102
Form ELI-1.5 .....	104
Form ELI-1.6 .....	106
Form CON-1 .....	108
Form CON-2 .....	112
Form FIN-3.3.1: .....	114
Form FIN-3.3.2: .....	116
Form FIN-3.3.3: .....	118
Form FIN-3.3.4: .....	120
Form EXP-3.4.1 .....	124
Form EXP-3.4.2(a).....	126
<b>Appendix E to Technical Part: Tender Security</b> .....	<b>128</b>
<b>Form of Tender-Securing Declaration</b> .....	<b>131</b>
<b>Letter of Tender – Financial Part</b> .....	<b>132</b>

---

**Appendix A to Financial Part: Schedule of Adjustment Data.....134**

**1. Price adjustment .....134**

Table A. Foreign Currency (FC).....142

Table B. Summary of Payment Currencies.....143

**Appendix B to Financial Part: Price Schedules .....145**

## 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/SYS-1/2023

To:

**GM/IE&A,**

Haryana Rail Infrastructure Development Corporation Limited (HRIDC),

Plot no.143, 5th floor,

Railtel Tower, Sector-44

Gurugram – 122003

Tel: +91 8860124749

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

## Contractor's Representative and Key Personnel Schedule

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

<b>Expected time schedule for this position:</b>	<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**

<b>Name of Tenderer</b>
-------------------------

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

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:

<b>Commitment</b>	<b>Details</b>
<b>Commitment to duration of contract:</b>	<i>[insert period (start and end dates) for which this Contractor's Representative or Key Personnel is available to work on this contract]</i>
<b>Time commitment:</b>	<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: _____
1. 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"> <li>• Operation on a commercial basis;</li> <li>• Financial and managerial autonomy;</li> <li>• Day-to-day management not controlled by the government; and Not under the supervision of the Employer or its procuring agency.</li> </ul>

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:**

2. \*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: _____
<b>1.</b> 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. <b>2.</b> Included are the organizational chart, a list of Board of Directors in the <b>Attachment 1</b> 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/s .....having its registered office at ..... (hereinafter referred to as `.....`) in the capacity of a Joint Member of the other part;
- And
- (iii) M/s .....having 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/s .....shall 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 of .....as 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 SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).** , 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 of .....as 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 SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).** , 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 ATTORNEY<sup>1</sup>

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 SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).** 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/SYS-1 /2023

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 2018 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:				
S. No.	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>

2. Pending Litigation resulting from contracts completed or in ongoing contracts over the last five years, in accordance with Section III, Evaluation and Qualification Criteria	
Description	YES/NO
(i) Whether any litigation is still pending against the Contractor 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 (currency)	Contract Identification	Total Contract Amount (currency), INR Equivalent (exchange rate)
			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
<b>Total Amount in dispute against Tenderer under pending litigation (INR Equivalent), (A)</b>				

<b>3. Pending Arbitration resulting from contracts completed or in ongoing contracts over the last five years, in accordance with Section III, Evaluation and Qualification Criteria</b>				
Description				YES/NO
(i)	Whether any arbitration is still pending against the Contractor 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 (currency)	Contract Identification	Total Contract Amount (currency), INR Equivalent (exchange rate)



			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
			Contract Identification: _____ Name of Employer: _____ Address of Employer: _____ Matter in dispute: _____ Party who initiated the dispute: _____ Status of dispute: _____	
<b>Total Amount in dispute against Tenderer in Arbitration (INR Equivalent), (B)</b>				
<b>Total Amount in dispute against Tenderer under pending litigation and Arbitration (INR Equivalent), C= (A) + (B)</b>				

<b>4. Litigation History in accordance with Section III, Evaluation and Qualification Criteria</b>				
<b>Description</b>				<b>YES/NO</b>
(i) Whether any Litigation History 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.				
<b>S. No.</b>	<b>Year of award</b>	<b>Outcome as percentage of Net Worth</b>	<b>Contract Identification</b>	<b>Total Contract Amount (currency), INR Equivalent (exchange rate)</b>
	<i>[insert year]</i>	<i>[insert 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> 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 1<sup>st</sup> April 2018 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/SYS-1 /2023

Tenderer's Name: \_\_\_\_\_

JV Member's Name \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

Environmental, Social, Health, and Safety Performance Declaration in accordance with Sub-Clause 3.2.5, Section III, Qualification Criteria and Requirements				
Description				YES/NO
<b>(i) Declaration of suspension or termination of contract:</b>				
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.				
<b>(ii) If answer to (i) above is YES, then following details to be submitted:</b>				
<b>a. Details of Contract(s) suspended/terminated by an employer(s) for reasons related to ESHS performance</b>				
S. No.	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>	<i>[insert amount]</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>[list all applicable contracts]</i>	...
<b>b. Details of Contract(s) in which Performance Security called by an employer(s) for reasons related to ESHS performance</b>				
S. No.	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/SYS-1/2023

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 1: 2019-20	Year 2:2020-21	Year 3:2021-22
	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 2019, 2020 and 2021 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/SYS-1 /2023

Tenderer's Name: \_\_\_\_\_

*JV Member's Name* \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

*(All amounts in Millions)*

<b>Annual Turnover Data for the Last Three (03) Financial Years (Construction Only)</b>			
<b>Year</b>	<b>Amount Currency</b>	<b>*Exchange Rate</b>	<b>INR Equivalent</b>
2019-20	<i>[insert amount and indicate currency]</i>		
2020-21			
2021-22			
Average Annual Construction Turnover			

\* 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 2019, 2020 and 2021 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 (i.e. SYS-1)**

[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.: HARC/HRIDC/SYS-1 /2023

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 SYS-1.**

*(All amounts in Millions)*

<b>Financial Resources for Package SYS-1</b>		
<b>No.</b>	<b>Source of financing</b>	<b>Amount (INR equivalent)</b>
1		
2		
3		
	<b>Total Sources of Finance for Package SYS-1</b>	

- (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/SYS-1 /2023

Tenderer's Name: \_\_\_\_\_

JV Member's Name \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

**1.0 Bid Capacity:**

The available bid capacity shall be calculated as under:

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 4.0 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.

**Note:****(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 3.3.1 (ii), 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 assigned to the applicant)	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)
<b>Total value of balance work yet to be done in INR equivalent upto the date of inviting the Tender</b>						<b>B=</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
<b>A</b> = 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 <b>as per FORM FIN 3.3.2</b> (in INR Equivalent)	
<b>N</b> = Number of years prescribed for completion of work for which Tender has been invited (in years)	<b>4</b>
<b>B</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)	
<b>Bid Capacity (in INR Equivalent) = [A x N x 2] – 0.33xNx B</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/SYS-1 /2023

Tenderer's Name: \_\_\_\_\_

JV Member's Name \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

Details of Works executed under infrastructure contracts involving electrical works in the role of Prime Contractor or a JV member or Management Contractor or a sub-contractor, starting 1<sup>st</sup> April 2016 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/SYS-1/2023

Tenderer's Name: \_\_\_\_\_

JV Member's Name \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

<b>Similar Contract No.</b>	<b>Information</b>		
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 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>	<i>INR [insert exchange rate(i) and amount of participation in INR equivalent]</i>
Employer's Name (Owner of the Work):			
Address: Mobile: Telephone/fax number E-mail:			
Description of the similarity in accordance with Sub-Clause 3.4.2 (a) of Section III:			

3. Amount (in INR)	
4. supply, installation, testing & commissioning of 1 x 25kV or 2 x 25kV, Overhead Electrification (OHE),	
5. supply, installation, testing & commissioning of Traction Sub Station (TSS)] (Nos.)	
6. total length ( TKM) of 1x25kV or 2x25kV, OHE works executed	

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

### **Tenderer's Authorized Representative**

Signature: .....

Date: .....

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) / Independent Engineer 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 not be evaluated.*
- (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)/Independent Engineer shall only be considered for the purpose of fulfillment of credentials.*

## 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 Guarantee<sup>1</sup> 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 3.4.2 (a), Section III, EQC.*

---

<sup>1</sup> Refer Sub-Clause ITT 1.3 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,  
Plot No 143, 5th Floor, Railtel Tower,  
Sector-44, Gurugram, Haryana-122003

**Tender No:** HORC/HRIDC/SYS-1/2023

**Date:** \_\_\_\_\_ *[Insert date of issue of Demand Guarantee]*

**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 **“Contractor Package SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).”**

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/SYS-1/2023

To:

**GM/IE&A,**

Haryana Rail Infrastructure Development Corporation Limited (HRIDC),

Plot no.143, 5th floor,

Railtel Tower, Sector-44

Gurugram – 122003

Tel: +91 8860124749

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];*
- (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 including Provisional Sums quoted in this Letter of Tender-Financial Part shall be same as given in Worksheet BOQ3 (Price Schedule –Summary Sheet) of MS-Excel File which includes cost of Schedule ‘A’ plus Schedule ‘B’ and plus Provisional Sum.



## 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, Electrical equipment and other commodities 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. 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.

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

Cost Centre	Description of Cost Centre	Price Adjustment
1	2	3
E1	Surveys, Investigation, Studies, Design and Documents, O & M Manuals, As Built Drawings and Training of staffs	Not Applicable
E2	OHE Works	Applicable
E3	Traction Substations (TSS)	Applicable
E4	Sectioning Post (SP)	Applicable
E5	Sub Sectioning Post (SSP)	Applicable
E6	SCADA	Applicable
E7	Spares and Tools	Applicable only for Sub Cost Centre E7.1 & E7.2
E8	Annual Maintenance contract for 3 Years	Not Applicable

- c) **The following expressions and meanings are assigned to the value of the work done for electrification works under Price Schedule ‘A’:**
- i) OHE = Value of work done for the completion of a stage under cost Centre ‘E2- Overhead Equipment Work’ of Price Schedule ‘A’;
  - ii) TSS = Value of work done for the completion of a stage under cost Centre ‘E3- Traction Sub-Station’ of Price Schedule ‘A’;
  - iii) SP = Value of work done for the completion of a stage under cost Centre ‘E4 - Sectioning Posts (SP)’ of Price Schedule ‘A’;
  - iv) SSP = Value of work done for the completion of a stage under cost Centre ‘E5 - Sub Sectioning Posts (SSP)’ of Price Schedule ‘A’;

- v) SCADA = Value of work done for the completion of a stage under cost Centre ‘E6-SCADA’ of Price Schedule ‘A’;
- vi) SPARES = Value of work done for the completion of a stage under Sub Cost Centre ‘E7.1-Supply of spares for OHE works’ & ‘E7.2-Supply of spares for Traction Power Installation’ of Price Schedule ‘A’;
- d) Price adjustment for changes in cost for electrification works under Price Schedule ‘A’ shall be paid in accordance with the following formula:**
- i) **VOHE** =  $0.85 \text{ OHE} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PC} \times (\text{Ci} - \text{Co})/\text{Co} + \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo} + \text{PCU} \times (\text{CUi} - \text{CUo})/\text{CUo} + \text{PINS} \times (\text{INSi} - \text{INSo})/\text{INSo}] + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo}; + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}$
- ii) **VTSS** =  $0.85 \text{ TSS} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PTR} \times (\text{TRi} - \text{TRo})/\text{TRo} + \text{PC} \times (\text{Ci} - \text{Co})/\text{Co} + \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo} + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}];$
- iii) **VSP** =  $0.85 \text{ SP} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PC} \times (\text{Ci} - \text{Co})/\text{Co} + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo} + \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo}] + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}$
- iv) **VSSP** =  $0.85 \text{ SP} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PC} \times (\text{Ci} - \text{Co})/\text{Co} + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo} + \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}]$
- v) **VSCADA** =  $0.85 \text{ SCADA} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PELEX} \times (\text{ELEXi} - \text{ELEXo})/\text{ELEXo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}];$
- vi) **VSPARE** =  $0.85 \text{ SPARE} \times \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo} + \text{PCU} \times (\text{CUi} - \text{CUo})/\text{CUo} + \text{PINS} \times (\text{INSi} - \text{INSo})/\text{INSo}] + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo}; + \text{PTR} \times (\text{TRi} - \text{TRo})/\text{TRo} + [\text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}];$

Where:-

**VOHE** = Increase or decrease in the cost under cost centre ‘E2’ of Price Schedule ‘A’ of Over Head Equipment and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

**VTSS** = Increase or decrease in the cost under cost centre ‘E3’ of Price Schedule ‘A’ of Traction Sub-Station and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

**VSP** = Increase or decrease in the cost under cost centre ‘E4’ of Price Schedule ‘A’ of Sectioning Post (SP) and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

**VSSP** = Increase or decrease in the cost under cost centre ‘E5’ of Price Schedule ‘A’ of Sub Sectioning Post (SSP) and other related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

**VSCADA** = Increase or decrease in the cost under cost centre ‘E6’ of Price Schedule ‘A’ of SCADA and related works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

**VSPARE** = Increase or decrease in the cost under Sub Cost Centre ‘E7.1-Supply of spares for OHE works’ & ‘E7.2-Supply of spares for Traction Power Installation’ of Price Schedule ‘A’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (e);

PLB, PC, PSST, PCU, PINS, PSWGR, PTR, PELEX, and POTH are the percentages of Labour, Cement, Structural Steel, Copper Wire, Insulators, Electrical Switch Gears, Transformer, Electronic Items and All Other Commodities respectively for the relevant item as specified in sub-paragraph (e);

**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

**Co** = The wholesale Price Index as published by the Ministry of Commerce & Industry, Government of India (hereinafter called “WPI”) for cement, lime, plaster for the Base month;

**Ci** = The WPI for cement, lime, plaster for the average price index of the 3 months of the quarter under consideration.

**SSTo**= Price of BLOOMS –Retail (SBLR) 150mmx150mm published by IEEMA for the Base month;

**SSTi** = = Price of BLOOMS –Retail (SBLR) 150mmx150mm published by IEEMA for the average price index of the 3 months of the quarter under consideration;

**CUo**= Copper: (CU) Price of Copper Wire Rod published by IEEMA for the Base month;

**CUi** = Copper: (CU) Price of Copper Wire Rod published by IEEMA for the average price index of the 3 months of the quarter under consideration;

**INSo** = The WPI for insulators for the Base month;

**INSi** = The WPI for insulators for the average price index of the 3 months of the quarter under consideration;

**SWGRo** = The WPI for MANUFACTURE OF ELECTRICAL EQUIPMENT for the Base month;

**SWGRi** = The WPI for MANUFACTURE OF ELECTRICAL EQUIPMENT for the average price index of the 3 months of the quarter under consideration;

**TRo**= The WPI for transformers for the Base month;

**TRi**= The WPI for transformers for the average price index of the 3 months of the quarter under consideration.

**ELEXo** = The WPI for MANUFACTURE OF ELECTRONIC COMPONENTS electronic items for the Base month;

**ELEXi** = The WPI for MANUFACTURE OF ELECTRONIC COMPONENTS for the average price index of the 3 months of the quarter under consideration;

**OTHo** = The 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;

- e) **The following percentages shall govern the price adjustment of the Contract Price for electrification works:**

Component	SCHEDULE 'A'					
	OHE (Cost Centre E2)	TSS (Cost Centre E3)	SP (Cost Centre E4)	SSP (Cost Centre E5)	SCADA (Cost Centre E6)	Spares (Sub Cost Centre E 7.1 & E 7.2)
Labour (PLB)	10%	2.3%	5.2%	6%	14%	-
Cement (PC)	10%	3%	3%	4%	-	-
Structural steel (PSST)	31%	2.5%	3.8%	5%	-	8%
Insulators (PINS)	6.5%	-	-	-	-	4%
Copper wire (PCU)	35%	-	-	-	-	12%
Transformer (PTR)	0.5%	72.5%	55%	48%	-	15%
Electrical Switch Gear (PSWGR)	-	9.5%	16%	27%	-	12%
Electronic (PELEX)	-	-	-	-	76%	-
All other commodities (POTH)	7%	11.2%	17%	14%	10%	49%
<b>Total</b>	100%	100%	100%	100%	100%	100%

- f) The following expressions and meanings are assigned to Sub Schedules under Price Schedule ‘B’:

<b>Sub Schedule</b>	<b>Description of Sub Schedule Cost</b>	<b>Price Adjustment</b>
<b>1</b>	<b>2</b>	<b>3</b>
B1	General	Applicable
B2	Concrete	Applicable
B3	Ferrous	Applicable
B4	Non Ferrous	Applicable
B5	Catenary & Contact wire	Applicable
B6	Insulators	Applicable
B7	SCADA at Harsana Kalan IR SSP	Applicable
B8	Non Schedule (NS) Items	Not Applicable

- g) **The following expressions and meanings are assigned to the value of the work done for electrification works under Price Schedule ‘B’:**

- i) **GEN** = Value of work done for the completion of a stage under Sub Schedule ‘B1 -General’ of Price Schedule ‘B’;
- ii) **CON** = Value of work done for the completion of a stage under Sub Schedule ‘B2 -Concrete’ of Price Schedule ‘B’;
- iii) **FER** = Value of work done for the completion of a stage under Sub Schedule ‘B3 -Ferrous’ of Price Schedule ‘B’;
- iv) **NFER** = Value of work done for the completion of a stage under Sub Schedule ‘B4 -Non-Ferrous’ of Price Schedule ‘B’;
- v) **CATCO** = Value of work done for the completion of a stage under Sub Schedule ‘B5 - Catenary and contact’ of Price Schedule ‘B’;
- vi) **INS** = Value of work done for the completion of a stage under Sub Schedule ‘B6 -Insulators’ of Price Schedule ‘B’;
- vii) **SCADA** = Value of work done for the completion of a stage under Sub Schedule ‘B7-SCADA’ of Price Schedule ‘B’;

- h) **Price adjustment for changes in cost for electrification works under Price Schedule ‘B’ shall be paid in accordance with the following formula:**

- i) 
$$\mathbf{VGEN} = 0.85 \text{ GEN} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo} + \text{PCU} \times (\text{CUi} - \text{CUo})/\text{CUo} + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo}] + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}]$$
- ii) 
$$\mathbf{VCON} = 0.85 \text{ CON} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PC} \times (\text{Ci} - \text{Co})/\text{Co} + \text{OTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}]$$
- iii) 
$$\mathbf{VFER} = 0.85 \text{ FER} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PSST} \times (\text{SSTi} - \text{SSTo})/\text{SSTo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}]$$

- iv)  $\mathbf{VNFER} = 0.85 \text{ NFER} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PINS} \times (\text{INSi} - \text{INSo})/\text{INSo} + \text{PCU} \times (\text{CUi} - \text{CUo})/\text{CUo} + \text{PSWGR} \times (\text{SWGRi} - \text{SWGRo})/\text{SWGRo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}]$
- v)  $\mathbf{VCATCO} = 0.85 \text{ CATCO} \times [\text{PCU} \times (\text{CUi} - \text{CUo})/\text{CUo}] ;$
- vi)  $\mathbf{VINS} = 0.85 \text{ INS} \times [\text{PINS} \times (\text{INSi} - \text{INSo})/\text{INSo}] ;$
- vii)  $\mathbf{VSCADA} = 0.85 \text{ SCADA} \times [\text{PLB} \times (\text{LBi} - \text{LBo})/\text{LBo} + \text{PELEX} \times (\text{ELEXi} - \text{ELEXo})/\text{ELEXo} + \text{POTH} \times (\text{OTHi} - \text{OTHo})/\text{OTHo}] ;$

Where:-

**VGEN** = Increase or decrease in the cost under Sub Schedule ‘B1-General’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

**VCON** = Increase or decrease in the cost under Sub Schedule ‘B2-Concrete’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

**VFER** = Increase or decrease in the cost under Sub Schedule ‘B3-Ferrous’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

**VNFER** = Increase or decrease in the cost under Sub Schedule ‘B4-Non-Ferrous’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

**VCATCO** = Increase or decrease in the cost under Sub Schedule ‘B5-Catenary and Contact Wire’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

**VINS** = Increase or decrease in the cost under Sub Schedule ‘B6-Insulators’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

**VSCADA** = Increase or decrease in the cost under Sub Schedule ‘B7-SCADA’ of Price Schedule ‘B’ during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (i);

PLB, PC, PSST, PCU, PINS, PSWGR, PELEX and POTH are the percentages of Labour, Cement, Structural Steel, Copper Wire, Insulators, Electrical Switch Gears, Electronic Items 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

**Co** = The Wholesale Price Index as published by the Ministry of Commerce & Industry, Government of India (hereinafter called “WPI”) for cement, lime, plaster for the Base month;

**Ci** = The WPI for cement, lime, plaster for the average price index of the 3 months of the quarter under consideration.

**SSTo**= Price of BLOOMS –Retail (SBLR) 150mmx150mm published by IEEMA for the Base month;

**SSTi** = = Price of BLOOMS –Retail (SBLR) 150mmx150mm published by IEEMA for the average price index of the 3 months of the quarter under consideration;

**CUo**= Copper : (CU) Price of Copper Wire Rod published by IEEMA for the Base month;

**CUi** = Copper : (CU) Price of Copper Wire Rod published by IEEMA for the average price index of the 3 months of the quarter under consideration;

**INSo** = The WPI for insulators for the Base month;

**INSi** = The WPI for insulators for the average price index of the 3 months of the quarter under consideration;

**SWGRo** = The WPI for MANUFACTURE OF ELECTRICAL EQUIPMENT for the Base month;

**SWGRi** = The WPI for MANUFACTURE OF ELECTRICAL EQUIPMENT for the average price index of the 3 months of the quarter under consideration;

**ELEXo** = The WPI for MANUFACTURE OF ELECTRONIC COMPONENTS electronic items for the Base month;

**ELEXi** = The WPI for MANUFACTURE OF ELECTRONIC COMPONENTS for the average price index of the 3 months of the quarter under consideration;

**OTHo** = The 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 electrification works under Schedule 'B':

Component	SCHEDULE 'B'						
	General (B1)	Concrete (B2)	Ferrous (B3)	Non-Ferrous (B4)	Catenary and Contact wire (B5)	Insulators (B6)	SCADA (B7)
Labour (PLB)	23%	20%	6%	7%	0%	0%	10%
Cement (PC)	0%	70%	0%	0%	0%	0%	0%
Structural steel (PSST)	20%	0%	90%	0%	0%	0%	0%
Insulators (PINS)	0%	0%	0%	10%	0%	100%	0%
Copper wire (PCU)	20%	0%	0%	20%	100%	0%	0%
Electrical Switch Gear (PSWGR)	20%	0%	0%	50%	0%	0%	0%
Electronic (PELEX)	0%	0%	0%	0%	0%	0%	80%
All other commodities (POTH)	17%	10%	4%	13%	0%	0%	10%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>



---

**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 Net Tender Price (NTP) $\frac{100 \times C}{NTP}$
For Schedule 'A'				
Local currency (INR)		1.00		
Foreign Currency #1 _____				
Foreign Currency #2 _____				
Foreign Currency #3 _____				
For Schedule 'B' expressed in Local currency (INR)		1.00		
Net Tender Price				100.00
Provisional Sums Expressed in Local Currency (INR) in million	100,000,000.00	1.00	100,000,000.00	Not Applicable
<b>TOTAL TENDER PRICE (including provisional sum)</b>				

**Note:** *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). 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.*

## Appendix B to Financial Part: Price Schedules

### I 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 Specifications, Particular Specifications, Tender Drawings, ESHS manual) and the Addenda/Corrigenda (if any).
- 1.2. **Schedule 'A'** comprises scope of work to be executed under lump sum contract as detailed in Part 2- Employers' Requirements of Tender Document. 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 items for "PSI works for IR Connectivity at New Prithla, Sultanpur, Asaudah, New Harsana Kalan, feeder from Harsana Kalan IR SSP to New Harsana Kalan OHE. The work has to be carried out as per the description of items given in Schedule 'B' and directions of the Engineer. 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. Schedule 'B' is further divided into eight Sub-Schedules i.e. Schedule 'B1', Schedule 'B2', Schedule 'B3', Schedule 'B4', Schedule 'B5', Schedule 'B6', Schedule 'B7' and Schedule 'B8'. The Tenderer has to quote the percentage Excess (+) or Less (-) over the total Estimated amount of Schedule 'B1', Schedule 'B2', Schedule 'B3', Schedule 'B4', Schedule 'B5', Schedule 'B6', Schedule 'B7' and Schedule 'B8' (which is shown as "Estimated Rate" against each Schedule 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 other electrification works, which are not covered in Schedule 'A', as per site requirements and as per the direction of the Engineer.
- 1.4. 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.
- 1.5. The price quoted in the Price Schedules for Schedule 'A' and Schedule 'B' are for complete and finished items of the work in all respects. The Price quoted in the Price Schedule shall, except otherwise specifically provided, shall include all design, manufacture, supply, installation, testing commissioning and include all necessary survey work, plants, tools, machinery, Contractor's equipment, labour, compliance of labour laws, supervision, materials, transportation, handling, loading & unloading, storage, sampling, inspection, 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, 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.

- 1.6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Price Schedule, 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.
- 1.7. 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.
- 1.8. 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.
- 1.9. The prices shall be quoted against Schedule 'A' and Schedule 'B' in the Price Schedule (Excel Workbook) uploaded on the eProcurement portal.
- 1.10. The prices quoted shall be comprehensive and must include for complying in all respects with the Price Schedule, 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 design, manufacture, supply, installation, testing commissioning, completion, and making good of any defect in part or of the whole of the Works.
- 1.11. No claims for additional payment shall be allowed for any error or misunderstanding by the Contractor of the work involved.

## **2 Variations in Price Schedule 'A' and Schedule 'B'**

- 2.1 Variations in Price Schedules shall be dealt in accordance with Sub Clause 13.3 of Section VIII- General Conditions of Contract and 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' 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. 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 six 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 three 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 Schedules

5.1 Schedule "A"- Breakup of Lump Sum cost of Electrification 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 each Sub-Head
1	2	3	4	5
E	Electrification Works	100	8	E= 1xLS*

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

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

Cost Centre	Description of Cost Centre	Percentage (%) of Cost Centre 'E'	Total Cost of Cost Centre	Total Cost of Sub-Head 'E'
1	2	3	4	5
E1	Surveys, Investigation, Studies, Design and Documents, O & M Manuals, As Built Drawings and Training of staffs	3.57	E1= 0.357x 'E'	100% of SCH 'A'
E2	OHE Works	55.87	E2=0.5587x 'E'	
E3	Traction Substations (TSS)	17.00	E3=0.17x 'E'	
E4	Sectioning Post (SP)	5.67	E4=0.0567x 'E'	

E5	Sub Sectioning Post (SSP)	5.33	$E5=0.0533x 'E'$	
E6	SCADA	1.05	$E6=0.0105x 'E'$	
E7	Spares and Tools	3.63	$E7=0.0363x 'E'$	
E8	Annual Maintenance contract for 3 Years	7.88	$E8= 0.0788x 'E'$	
Total		100%		

Note: Value of 'E' 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 'E1'- Survey, Investigations, Management plans, Studies, Design & documents, O&M manual and as built drawings, training of staff**

<b>Cost Centre</b>		Survey, Investigations, Management plans, Studies, Design & documents, O&M manual and as built drawings, training of staff		
<b>Weightage of Cost Centre 'E1', (X)</b>		3.57%		
<b>Sub Cost Centre</b>	<b>Item of Work</b>		<b>Milestones</b>	<b>Weightage (Y) (%)</b>
	<b>No.</b>	<b>Description</b>		
E 1.1 Surveys of entire section for OHE & ROCS Works	E1.1.1	Surveys of entire section detailing all utilities and Geo-Technical investigations for, 2x25 kV AC Traction Electrification, ROCS in Tunnel, Viaduct, Major Bridge, Transmission Lines and associated works	Surveys of entire section detailing all utilities and Geo-Technical investigations for, 2x25 kV AC Traction Electrification, ROCS in Tunnel, Viaduct, Major Bridge, Transmission Lines and associated works	2
E1.2 Preliminary design & Documents	E1.2.1	Submission and approval of Inception Report including Design manual	Submission and approval of Inception Report including Design manual	2
	E1.2.2	Submission and approval of System Requirement Specification (SRS)	Submission and approval of System Requirement Specification (SRS)	3
	E1.2.3	Submission and approval of Management Plans	Submission and approval of Management Plans	5
	E1.2.4	Traction Simulation study report	Traction Simulation study report	6
	E1.2.5	Traction power Supply system design with supportive calculations	Traction power Supply system design with supportive calculations	4
	E1.2.6	OHE Works with supportive calculations	OHE Works with supportive calculations	4
	E1.2.7	Earthing & Bonding scheme	Earthing & Bonding scheme	2
	E1.2.8	ROCS works	ROCS works	2
	E1.2.9	SCADA System	SCADA System	2

<b>Cost Centre</b>	Survey, Investigations, Management plans, Studies, Design & documents, O&M manual and as built drawings, training of staff			
<b>Weightage of Cost Centre 'E1', (X)</b>	3.57%			
<b>Sub Cost Centre</b>	<b>Item of Work</b>		<b>Milestones</b>	<b>Weightage (Y) (%)</b>
	<b>No.</b>	<b>Description</b>		
E1.3 Detailed Design & Documents	Submission and approval of Detailed Design & Documents for Electrical works including layout Plans, Design Manuals and GFC(Good for Construction Drawings) and other Construction Reference Drawings like Combined Service Drawing etc.			
	E1.3.1	OHE Works	OHE Works	15
	E1.3.2	Traction Power Supply Works	Traction Power Supply Works	25
	E1.3.3	ROCS Works	ROCS Works	4
	E1.3.4	Traction and Auxiliary SCADA works	Traction and Auxiliary SCADA works	5
E1.4 As Built Drawings	E1.4.1	Submission and approval of As-Built Drawings for Completed works	Submission and approval of As-Built Drawings for Completed works	6
E 1.5 Operation & Maintenance Manuals	E1.5.1	Submission & Approval of Operation & Maintenance Manuals	Submission & Approval of Operation & Maintenance Manuals	3
E1.6 RAMS Plan	E1.6.1	RAMS Demonstration tests, reports, Establishing FRACAS and Defect Notification stage RAMS Plan	RAMS Demonstration tests, reports, Establishing FRACAS and Defect Notification stage RAMS Plan	3
E 1.7 Miscellaneous	E1.7.1	Any other design compliance and document required to be prepared as part of the contract	Any other design compliance and document required to be prepared as part of the contract	2
E1.8 Training	E1.8.1.	Training	Training	4
E1.9 Permits and approvals	E1.9.1	Obtaining permits and approvals as required from various Statutory & Government Bodies	Obtaining permits and approvals as required from various Statutory & Government Bodies	1

<b>Cost Centre</b>	Survey, Investigations, Management plans, Studies, Design & documents, O&M manual and as built drawings, training of staff			
<b>Weightage of Cost Centre 'E1', (X)</b>	3.57%			
<b>Sub Cost Centre</b>	<b>Item of Work</b>		<b>Milestones</b>	<b>Weightage (Y) (%)</b>
	<b>No.</b>	<b>Description</b>		
			<b>Total</b>	<b>100.00</b>

## 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 E1.1.1 will be equal to  $LS * X * Y = LS * 0.0357 * 0.02$ .
- 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 Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.

### 5.2.2 Stages of Payment i.e. Milestones of Cost Centre 'E2'- OHE Works

Cost Centre		OHE Works		
Weightage of Cost Centre 'E2', (X)		55.87%		
Sub Cost Centre	Item of work		Milestone	Weightage (Y) (%)
	No	Description		
E.2.1 Contact Wire	E 2.1.1	Supply of Contact Wire	Supply of Contact Wire	15.63
E.2.2 Catenary Wire	E 2.2.1	Supply of Catenary Wire	Supply of Catenary Wire	13.43
E2.3 Feeder wire	E 2.3.1	Supply of Feeder conductor (NFW)	Supply of Feeder conductor (NFW)	1.72
E2.4 Steel Structure	E 2.4.1	Supply Galavanised steel structure, Traction Mast and Portal and SPS including Guy Rod Assembly	Supply Galavanised steel structure, Traction Mast and Portal and SPS including Guy Rod Assembly	20.46
E2.5 Cantilever Assembly	E 2.5.1	Supply of Cantilever Assembly without Insulator	Supply of Cantilever Assembly without Insulator	6.98
E2.6 Auto Tension Device	E 2.6.1	Supply of Automatic Tensioning Device (ATD) Assembly along with counter weight assembly with SS wire Rope with Guide Tube etc	Supply of Automatic Tensioning Device (ATD) Assembly along with counter weight assembly with SS wire Rope with Guide Tube etc	1.62
E2.7 Insulators	E 2.7.1	Supply of all types of Insulators	Supply of all types of Insulators	3.04
E2.8 Motorised Isolator, Control Cable & PTFE	E 2.8.1	Supply of double pole motorised Isolators and single pole motorised Isolators with control cable with Jumpers, Section Insulators & PTFE.	Supply of double pole motorised Isolators and single pole motorised Isolators with control cable with Jumpers, Section Insulators & PTFE.	2.65
E2.9 Jumper, Anticreep wire, LS wire & Termination	E 2.9.1	Supply of Anticreep wire, along Feeder & Cross Feeder wires, Large span wire, Dropper assembly, All type Jumpers with clamps, All type Termination, NFW Suspension Clamp, 25 kV	Supply of Anticreep wire, along Feeder & Cross Feeder wires, Large span wire, Dropper assembly, All type Jumpers with clamps, All type Termination, NFW Suspension Clamp, 25 kV	5.88

Cost Centre		OHE Works		
Weightage of Cost Centre 'E2', (X)		55.87%		
Sub Cost Centre	Item of work		Milestone	Weightage (Y) (%)
	No	Description		
		power Cables, LT power cable with ACO panel, Insulating sleeve.	power Cables, LT power cable with ACO panel, Insulating sleeve.	
E2.10 Auxiliary Transformers	E 2.10.1	Supply of Auxiliary Transformers	Supply of Auxiliary Transformers	0.42
E2.11 ROCS works	E 2.11.1	Supply of ROCS Conductor rails, Support Bracket, including anchor Bolts, Cantilever assembly, Transition Element and Insulator etc	Supply of ROCS Conductor rails, Support Bracket, including anchor Bolts, Cantilever assembly, Transition Element and Insulator etc	6.23
E2.12 Balance Materials	E 2.12.1	Supply of Balance Materials i.e Retro Reflective Number Plate, Caution Board, Neutral Section Board, Engine stop Board, Warning Board, Sigma Board, Sectioning Diagram Board, Safety Screen Panel, Splices, D.O Fuse assembly, Nuts & Bolts, Protective Safety screen Panels etc to complete the entire works.	Supply of Balance Materials i.e Retro Reflective Number Plate, Caution Board, Neutral Section Board, Engine stop Board, Warning Board, Sigma Board, Sectioning Diagram Board, Safety Screen Panel, Splices, D.O Fuse assembly, Nuts & Bolts, Protective Safety screen Panels etc to complete the entire works.	0.32
E2.13 Foundation	E 2.13.1	Supply and Erection of Foundation, Grouting with Muffing including Nominal reinforcement with materials.	Supply and Erection of Foundation, Grouting with Muffing including Nominal reinforcement with materials.	12.66

Cost Centre		OHE Works		
Weightage of Cost Centre 'E2', (X)		55.87%		
Sub Cost Centre	Item of work		Milestone	Weightage (Y) (%)
	No	Description		
E2.14 Erection of Steel Structure	E 2.14.1	Erection of Galvanised Steel Structure ( Mast/Portal/TTC), ROCS Support Bracket with Anchor Bolt, Cantilever, Conductor rail & Transition element and Insulators etc	Erection of Galvanised Steel Structure ( Mast/Portal/TTC), ROCS Support Bracket with Anchor Bolt, Cantilever, Conductor rail & Transition element and Insulators etc	2.19
E2.15 Erection of Cantilever erection	E 2.15.1	Erection of OHE Cantilever assembly along with Insulator	Erection of OHE Cantilever assembly along with Insulator	0.66
E2.16 Erection of Balance Materials	E 2.16.1	Erection of Auxiliary Transformer, PTFE, Isolator, Section Insulator, Wiring, Dropper, ATD, .Cross Feeder, Along Feeders, Terminations, Guy rod, Jumpers, Cut in Insulators, insulating sleeves, Erection of protective screen, number plate, warning boards etc	Erection of Auxiliary Transformer, PTFE, Isolator, Section Insulator, Wiring, Dropper, ATD, .Cross Feeder, Along Feeders, Terminations, Guy rod, Jumpers, Cut in Insulators, insulating sleeves, Erection of protective screen, number plate, warning boards etc	2.33
E2.17 Earthing and Bonding	E 2.17.1	Supply and Erection of AEC, BEC (If Required), Earth electrode, GI Earth Strips, Lightning Protection, Safety screen, Earth Terminations etc.	Supply and Erection of AEC, BEC (If Required), Earth electrode, GI Earth Strips, Lightning Protection, Safety screen, Earth Terminations etc.	1.82
E2.18 Testing & Commissioning	E 2.18.1	Final Adjustment, SED Checking including Tower Wagon checking/Pantograph run, Commissioning/ Energisation of OHE system, Current collection test, completion of any other residual works of OHE system and electrical signage and integrated testing as required	Final Adjustment, SED Checking including Tower Wagon checking/Pantograph run, Commissioning/ Energisation of OHE system, Current collection test, completion of any other residual works of OHE system and electrical signage and integrated testing as required	1.96
<b>Total</b>				<b>100.00</b>

**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 E2.1.1 will be equal to  $LS * X * Y = LS \times 0.5587 \times 0.1563$
- 2 Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Cost Centre.
- 3 Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.
- 4 Payment will be made on pro rata completion of Track Km Length (TKM) as per weightage(s) given in the Cost Centre.

### 5.2.3 Stages of Payment i.e. Milestones of Cost Centre 'E3'- Traction Sub Station (TSS)

Cost Centre		Traction Sub Station (TSS)		
Weightage of Cost Centre 'E3', (X)		17%		
Sub Cost Centre	Items of Work		Milestone	Weightage (Y) (%)
	No	Description		
E 3.1 Ferrous Item	E 3.1.1	Supply of Steel structures and Small Parts Steel (SPS)	Supply of Steel structures and Small Parts Steel (SPS)	2.42
E 3.2 Traction Transformer	E 3.2.1	Supply of Scott connected Traction Transformers	Supply of Scott connected Traction Transformers	59.57
E 3.3 Auto Transformer	E 3.3.1	Supply of Auto Transformers and 25KV/240V Auxillary Transformers.	Supply of Auto Transformers and 25KV/240V Auxillary Transformers.	12.37
E 3.4 CB, CT, PT & Isolator Motorised	E 3.4.1	Supply of Three Pole Motorized Isolator, Double Pole Isolators including motorised, Switchgears and control gears, Circuit Breaker, interrupters, CT and PT with fittings and Fasteners.	Supply of Three Pole Isolator, Double Pole Isolators including motorised, Switchgears and control gears, Circuit Breaker, interrupters, CT and PT with fittings and Fasteners.	7.68
E 3.5 Control Relays Panels	E 3.5.1	Supply of Control and Relays Panels fully assembled	Supply of Control and Relays Panels fully assembled	1.38
E 3.6 Balance Materials	E 3.6.1	Supply of all other balance material including cables, AL/CU Busbars, Earthing material, Lightning Arresters, Battery set, Battery Chargers, Insulators, ACDB & DCDB, PFC equipment and power quality control devices, drop Jumpers, Conductor busbar, Termination Assemblies, D.O fuse assembly etc.	Supply of all other balance material including cables, AL/CU Busbars, Earthing material, Lightning Arresters, Battery set, Battery Chargers, Insulators, ACDB & DCDB, PFC equipment and power quality control devices, drop Jumpers, Conductor busbar, Termination Assemblies, D.O fuse assembly etc.	6.59
E 3.7 Foundation	E 3.7.1	(a) Completion of Earthwork, Fencing, and Foundation, Baffle wall, Cable Treach & cover, Brick work and Plastering - 3.89	(a) Completion of Earthwork, Fencing, and Foundation, Baffle wall, Cable Treach & cover, Brick work and Plastering - 3.89	3.89



Cost Centre		Traction Sub Station (TSS)		
Weightage of Cost Centre 'E3', (X)		17%		
Sub Cost Centre	Items of Work		Milestone	Weightage (Y) (%)
	No	Description		
E 3.8 Erection of Ferrous Item	E 3.8.1	Erection of Steel structures and SPS	Erection of Steel structures and SPS	0.10
E 3.9 Traction Transformer	E 3.9.1	Erection of Traction Transformers with accessories	Erection of Traction Transformers with accessories	0.10
E 3.10 Erection of Auto Transformer	E 3.10.1	Erection of Auto Transformers with accessories and 25KV/240V Auxillary Transformers.	Erection of Auto Transformers with accessories and 25KV/240V Auxillary Transformers.	0.20
E 3.11 Erection of CB, CT, PT & Isolator Motorised	E 3.11.1	Erection of Circuit Breaker, interrupters, isolators, CT, PT Control relay panel, Control & monitoring Equipment .	Erection of Circuit Breaker, interrupters, isolators, CT, PT Control relay panel, Control & monitoring Equipment .	0.41
E 3.12 Control Room Building	E 3.12.1	<p>a) Construction of control room building and its E&amp;M works i.e Building electrification, Ventilation, Access control system and switch yard lighting including trenching, oil soak pit, water recharge pit &amp; drainage works etc. and casting of Roads inside the TSS – 1.19% and</p> <p>b) Tower wagon shed work with inspection pit and Electricals works etc - 1.74 %</p>	<p>a) Construction of control room building and its E&amp;M works i.e Building electrification, Ventilation, Access control system and switch yard lighting including trenching, oil soak pit, water recharge pit &amp; drainage works etc. and casting of Roads inside the TSS – 1.19% and</p> <p>b) Tower wagon shed work with inspection pit and Electricals works etc - 1.74 %</p>	2.93

Cost Centre		Traction Sub Station (TSS)		
Weightage of Cost Centre 'E3', (X)		17%		
Sub Cost Centre	Items of Work		Milestone	Weightage (Y) (%)
	No	Description		
E 3.13 Balance Materials	E 3.13.1	Erection of all other balance indoor/outdoor equipment including Bus-bars, Earth mat, Earthing & Bonding system, Buried rail, Lighting Protection system, Fire extinguisher, Power Distribution boards, Cabling, ACSR conductors, 8 SWG GI wire, All type connectors & Splices, Insulators, Battery, Battery chargers, Signage & safety equipment's etc. as required for commissioning of TSSs	Erection of all other balance indoor/outdoor equipment including Bus-bars, Earth mat, Earthing & Bonding system, Buried rail, Lighting Protection system, Fire extinguisher, Power Distribution boards, Cabling, ACSR conductors, 8 SWG GI wire, All type connectors & Splices, Insulators, Battery, Battery chargers, Signage & safety equipment's etc. as required for commissioning of TSSs	0.40
E 3.14 Testing and Commissioning	E 3.14.1	Number plates, Other facilities, EIG Sanction and Testing and Commissioning of all equipment and Energisation.	Number plates, Other facilities, EIG Sanction and Testing and Commissioning of all equipment and Energisation.	1.96
<b>Total</b>				<b>100.00</b>

**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 E3.1.1 will be equal to  $LS * X * Y = LS * 0.17 * 0.0242$
- 2 Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Cost Centre.
- 3 Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.
- 4 Payment will be made on Pro rata completion of each payment stage as per weightage (s) given in this Cost Centre

**5.2.4 Stages of Payment i.e. Milestones of Cost Centre 'E4'- Sectioning Post (SP)**

Cost Centre		Sectioning Post (SP)		
Weightage of Cost Centre 'E4', (X)		5.67%		
Sub Cost Centre	Item of work		Milestone	Weightage (Y) (%)
	No	Description		
E 4.1 Ferrous Item	E 4.1.1	Supply of Steel structures and Small Parts Steel (SPS)	Supply of Steel structures and Small Parts Steel (SPS)	1.65
E 4.2 Auto Transformer	E 4.2.1	Supply of Auto Transformers and 25KV/240V LT Auxillary Transformers	Supply of Auto Transformers and 25KV/240V LT Auxillary Transformers	55.12
E 4.3 CB, CT, PT & Isolator	E 4.3.1	Supply of Circuit Breaker, interrupters, CT, PT and isolators.	Supply of Circuit Breaker, interrupters, CT, PT and isolators.	10.63
E 4.4 Control Relays Panels	E 4.4.1	Supply of Control and Relays Panel with protective relays and Fault locator Panel.	Supply of Control and Relays Panel with protective relays and Fault locator Panel.	6.10
E 4.5 Balance Materials	E 4.5.1	Supply of all other balance material including cables, AL/CU Busbars, Earthing material, Buried rail, Lightning Arresters, Battery set, Battery Chargers, Insulators, ACDB & DCDB, drop Jumpers, Conductor busbar, Termination Assemblies, D.O fuse assembly, GI Earth Strip etc to complete the work.	Supply of all other balance material including cables, AL/CU Busbars, Earthing material, Buried rail, Lightning Arresters, Battery set, Battery Chargers, Insulators, ACDB & DCDB, drop Jumpers, Conductor busbar, Termination Assemblies, D.O fuse assembly, GI Earth Strip etc to complete the work.	17.00
E 4.6 Foundation	E 4.6.1	Completion of Earthwork, fencing and foundation work	Completion of Earthwork, fencing and foundation work	3.63
E 4.7 Control Room Building	E 4.7.1	Construction of control room building, inside road and its E&M works i.e Building electrification, Ventilation, Access control system and switch yard lighting including trenching, oil soak pit, water recharge pit & drainage works etc.	Construction of control room building, inside road and its E&M works i.e Building electrification, Ventilation, Access control system and switch yard lighting including trenching, oil soak pit, water recharge pit & drainage works etc.	1.72

Cost Centre		Sectioning Post (SP)		
Weightage of Cost Centre 'E4', (X)		5.67%		
Sub Cost Centre	Item of work		Milestone	Weightage (Y) (%)
	No	Description		
E 4.8 Erection of Ferrous Item	E 4.8.1	Erection of Steel structures and SPS	Erection of Steel structures and SPS	0.10
E 4.9 Erection of Auto Transformer	E 4.9.1	Erection of Auto Transformers and 25KV/240V Auxillary Transformers	Erection of Auto Transformers and 25KV/240V Auxillary Transformers	1.00
E 4.10 Erection of CB, CT, PT & Isolator	E 4.10.1	Erection of Switchgears and control gears, Circuit Breaker, interrupters, Isolators, CT, PT, Control Cables and Erection & Commissioning of Control & Relay panel and control cabling .	Erection of Switchgears and control gears, Circuit Breaker, interrupters, Isolators, CT, PT, Control Cables and Erection & Commissioning of Control & Relay panel and control cabling .	0.70
E 4.11 Balance Materials	E 4.11.1	Erection of all other balance indoor/outdoor equipment including Bus-bars, Earth mat/Earthing & Bonding system, Buried rail, Lighting Protection system, Insulators, Fire Extinguisher, Power Distribution boards, Cabling, Battery, Battery chargers, Signage, GI Earth Strip & safety equipment etc. as required for commissioning of Power Supply installation	Erection of all other balance indoor/outdoor equipment including Bus-bars, Earth mat/Earthing & Bonding system, Buried rail, Lighting Protection system, Insulators, Fire Extinguisher, Power Distribution boards, Cabling, Battery, Battery chargers, Signage, GI Earth Strip & safety equipment etc. as required for commissioning of Power Supply installation	0.40
E 4.12 Testing and Commissioning	E 4.12.1	Number plates, Other facilities, EIG Sanction and Testing and Commissioning of all equipment and Energisation.	Number plates, Other facilities, EIG Sanction and Testing and Commissioning of all equipment and Energisation.	1.95
<b>Total</b>				<b>100.00</b>

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 E2.1.1 will be equal to  $LS * X * Y = LS * 0.0567 * 0.0165$

- 2 Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Cost Centre.
- 3 Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.

**5.2.5 Stages of Payment i.e. Milestones of Cost Centre 'E5'- Sub Sectioning Post (SSP)**

Cost Centre		Sub Sectioning Post (SSP)		
Weightage of Cost Centre 'E5', (X)		5.33%		
Sub Cost Centre	Item of Work		Milestone	Weightage (Y) (%)
	No	Description		
E 5.1 Ferrous Item	E 5.1.1	Supply of Steel structures and Small Parts Steel (SPS)	Supply of Steel structures and Small Parts Steel (SPS)	2.90
E 5.2 Auto Transformer	E 5.2.1	Supply of Auto Transformers and 25KV/240V LT Auxiliary Transformers	Supply of Auto Transformers and 25KV/240V LT Auxiliary Transformers	49.00
E 5.3 Circuit Breaker, Current Transformer, Potential Transformer & Isolator	E 5.3.1	Supply of Switchgears and control gears, Circuit Breaker, interrupters, CT, PT and isolators.	Supply of Switchgears and control gears, Circuit Breaker, interrupters, CT, PT and isolators.	16.30
E 5.4 Control Relays Panels	E 5.4.1	Supply of Control and Relays Panels with protective relays and earth fault locator panel.	Supply of Control and Relays Panels with protective relays and earth fault locator panel.	11.00
E 5.5 Balance Materials	E 5.5.1	Supply of all other balance material including cables, AL/CU Busbars, Earthing material, Buried rail, Lightning Arresters, Battery set, Battery Chargers, Insulators, ACDB & DCDB, drop Jumpers, Conductor busbar, connectors and Splices, Termination assemblies, GI Earth Strip etc. to complete the work.	Supply of all other balance material including cables, AL/CU Busbars, Earthing material, Buried rail, Lightning Arresters, Battery set, Battery Chargers, Insulators, ACDB & DCDB, drop Jumpers, Conductor busbar, connectors and Splices, Termination assemblies, GI Earth Strip etc. to complete the work.	7.80
E 5.6 Foundation	E 5.6.1	Completion of Earthwork, fencing and foundation work	Completion of Earthwork, fencing and foundation work	5.10
E 5.7 Control Room Building	E 5.7.1	Construction of control room building, inside road and its E&M works i.e Building electrification, Ventilation, Access control system and switch yard lighting including trenching, oil soak pit, water	Construction of control room building, inside road and its E&M works i.e Building electrification, Ventilation, Access control system and switch yard lighting including trenching, oil soak pit, water	3.10

Cost Centre		Sub Sectioning Post (SSP)		
Weightage of Cost Centre 'E5', (X)		5.33%		
		recharge pit & drainage works etc.	recharge pit & drainage works etc.	
E 5.8 Erection of Ferrous Item	E 5.8.1	Erection of Steel structures and SPS	Erection of Steel structures and SPS	0.20
E 5.9 Erection of Auto Transformer	E 5.9.1	Erection of Auto Transformers and 25KV/240V Auxillary Transformers	Erection of Auto Transformers and 25KV/240V Auxillary Transformers	1.00
E 5.10 Erection of CB, CT, PT & Isolator	E 5.10.1	Erection of Switchgears and control gears, Circuit Breaker, interrupters, Isolators, CT, PT, Control Cables and Erection relay panel and control cabling.	Erection of Switchgears and control gears, Circuit Breaker, interrupters, Isolators, CT, PT, Control Cables and Erection relay panel and control cabling .	1.00
E 5.11 Balance Materials	E 5.11.1	Erection of all other balance indoor/outdoor equipment including Bus-bars, Earth mat/Earthing & Bonding system, Buried rail, Lighting Protection system, Insulators, Fire Extinguisher, Power Distribution boards, Cabling, Battery, Battery chargers, Signage, GI Earth Strip & safety equipment etc. as required for commissioning of Power Supply installation	Erection of all other balance indoor/outdoor equipment including Bus-bars, Earth mat/Earthing & Bonding system, Buried rail, Lighting Protection system, Insulators, Fire Extinguisher, Power Distribution boards, Cabling, Battery, Battery chargers, Signage, GI Earth Strip & safety equipment etc. as required for commissioning of Power Supply installation	0.60
E 5.12 Testing and Commissioning	E 5.12.1	Number plates, Other facilities, EIG Sanction and Testing and Commissioning of all equipment and Energisation.	Number plates, Other facilities, EIG Sanction and Testing and Commissioning of all equipment and Energisation.	2.00
<b>Total</b>				<b>100.00</b>

**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 E5.1.1 will be equal to  $LS * X * Y = LS \times 0.0533 \times 0.0290$
- 2 Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Cost Centre.

- 4 Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.



### 5.2.6 Stages of Payment i.e. Milestones of Cost Centre 'E6'- SCADA

Cost Centre		SCADA		
Weightage of Cost Centre 'E6', (X)		1.05%		
Sub Cost Centre	Item of work		Milestone	Weightage (Y) (%)
	No	Description		
E6.1 SCADA system Hardware	E 6.1.1	Supply and erection of SCADA system Hardware, Web server, UPS, Battery sets, GPS receiver, Earthing and Furniture along with associated equipment/materials at OCC.	Supply and erection of SCADA system Hardware, Web server, UPS, Battery sets, GPS receiver, Earthing and Furniture along with associated equipment/materials at OCC.	23.00
E6.2 SCADA software at remote control centre of boundary post of Northern Railway and DFFCIL	E 6.2.1	Installation of software of SCADA system and modifications/ Upgradation of SCADA software at remote control centre of boundary post of Northern Railway and DFFCIL	Installation of software of SCADA system and modifications/ Upgradation of SCADA software at remote control centre of boundary post of Northern Railway and DFFCIL	11.00
E6.3 RTU for TSS, SP & SSP	E 6.3.1	Supply and erection of Remote Terminal Units(RTUs) along with	Supply and erection of Remote Terminal Units(RTUs) along with	64.00
E 6.4 Testing & Commissioning	E 6.4.1	System Acceptance Testing and commissioning of SCADA system including Integrated Testing	System Acceptance Testing and commissioning of SCADA system including Integrated Testing	2.00
<b>Total</b>				<b>100.00</b>

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 E6.1.1 will be equal to  $LS * X * Y = LS * 0.0105 * 0.23$
- 2 Adjustment to Contract Price pursuant to GCC 13.7 shall be applicable to the payments of Works executed under this Cost Centre.
- 3 Payment will be made on pro rata completion of each Milestone as per weightage given in this Cost Centre.

### 5.2.7 Stages of Payment i.e. Milestones of Cost Centre 'E7'- Spares and Tools

<b>Stages of Payment i.e. Milestones of Cost Centre 'E7'- Spares and Tools</b>				
<b>Cost Centre</b>		<b>Spares and Tools</b>		
<b>Weightage of Cost Centre 'E7', (X)</b>		3.63%		
<b>Sub Cost Centre</b>	<b>Item of Work</b>		<b>Milestone</b>	<b>Weightage (Y) (%)</b>
	<b>No.</b>	<b>Description</b>		
E 7.1 Supply of Spares for OHE works	E 7.1.1	OHE & ROCS conductors, Jumpers, Droppers and OHE Fittings etc.	OHE & ROCS conductors, Jumpers, Droppers and OHE Fittings etc.	10.98
	E 7.1.2	Steel Structures	Steel Structures	6.16
	E 7.1.3	Cantilevers with Insulators	Cantilevers with Insulators	5.66
	E 7.1.4	Tower Wagons(90% payment on supply and rest 10% on successful commissioning of Tower Wagon	Tower Wagons(90% payment on supply and rest 10% on successful commissioning of Tower Wagon	38.26
	E 7.1.5	Balance items	Balance items	3.87
E7.2 Supply of Spares for Traction Power Installation:	E 7.2.1	Auto Transformers & Transformer spare parts	Auto Transformers & Transformer spare parts	15.80
	E 7.2.2	Interruptioners	Interruptioners	4.54
	E 7.2.3	Circuit Breakers	Circuit Breakers	4.54
	E 7.2.4	Isolators	Isolators	2.24
	E 7.2.5	Balance items	Balance items	2.24
E 7.3 Special Tools & instruments/ Equipment,	E 7.3.1	Supply of Special Tools & instruments/ Equipment, Drone etc	Supply of Special Tools & instruments/ Equipment, Drone etc	4.59
	E 7.3.2	Supply of Portable diagnostic modules for SCADA	Supply of Portable diagnostic modules for SCADA	1.12
<b>Total</b>				<b>100.00</b>

## 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 E7.1.1 will be equal to  $LS * X * Y = LS \times 0.0363 \times 0.1098$
- 2** Adjustment to Contract Price pursuant to GCC 13.7 shall NOT be applicable to the payments of Works executed under Sub Cost Centre E 7.3.
- 3** Payment will be made on pro rata completion of each Milestone as per weightage given in this Cost Centre.

### 5.2.8 Stages of Payment i.e. Milestones of Cost Centre 'E8'- Annual Maintenance Contract (Comprehensive) for 3 Years

Cost Centre		Annual Maintenance Contract (Comprehensive) For 3 Years		
Weightage of Cost Centre 'E8', (X)		7.88%		
Sub Cost Centre	Item of Work		Milestone	Weightage (Y) (%)
	No	Description		
E 8.1 First Year Comprehensive Maintenance	E 8.1.1	Price of First year of Comprehensive Maintenance Contract	Price of First year of Comprehensive Maintenance Contract	31.00
E 8.2 Second Year Comprehensive Maintenance	E 8.1.2	Price of Second year of Comprehensive Maintenance Contract	Price of Second year of Comprehensive Maintenance Contract	33.00
E 8.3 Third Year Comprehensive Maintenance	E 8.1.3	Price of Third year of Comprehensive Maintenance Contract	Price of Third year of Comprehensive Maintenance Contract	36.00
<b>Total</b>				<b>100.00</b>

#### 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 E8.1.1 will be equal to  $LS * X * Y = LS * 0.0788 * 0.31$
- 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 Payment will be made on completion of each Milestone as per weightage given in this Cost Centre.
- 4 The yearly amount shall be divided into 12 equal instalments and shall be paid on monthly basis after Certification by the Engineer.

**5.3 Schedule 'B' OHE works for IR Connectivity and Feeder (Harsana Kalan IR SSP to New Harsana Kalan OHE)**

Schedule 'B' is subdivided into eight Sub-Schedules as given below:

S. No.	Sub-Schedule	Description	No. of Items	Material (M) (INR)	Erection (E) (INR)	Total (INR)
1	2	3	4	5	6	7=5+6
1	B 1	General	90	1,60,57,831.07	48,30,511.36	2,08,88,342.43
2	B 2	Concrete	7	1,23,82,571.93	30,24,427.64	1,54,06,999.57
3	B 3	Ferrous	27	5,57,42,010.60	37,69,809.60	5,95,11,820.20
4	B 4	Non Ferrous	32	1,73,76,646.62	12,10,187.21	1,85,86,833.83
5	B 5	Catenary & Contact wire	02	5,05,86,222.31	-	5,05,86,222.31
6	B 6	Insulators	06	94,21,462.35	-	94,21,462.35
7	B 7	SCADA at Harsana Kalan IR SSP	03	18,89,146.86	-	18,89,146.86
8	B 8	Non Schedule (NS) Items	16	1,36,54,015.50	-	1,36,54,015.50
<b>Grand Total for IR &amp; DFC Connectivity in INR</b>						<b>18,99,44,843.05</b>

### 5.3.1 Sub-Schedule 'B1': General

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
1	Preparation of designs and drawings for overhead equipment, TSWR and as built drawings. All designs, LOP, CSD, Foundations, cable trench, gantry connections, FOB, ROB, SPS, Turnout, Cross Overs, Overlaps, PTFE, fencing, gate, earthing, control room building, gantry for interrupter, motorised Isolators etc including cross feeder and along feeders etc required for OHE works and SP at Sultanpur and Asaudah.	TKM	0.00	17175.77	15.5	0.00	2,66,224.44	2,66,224.44
2	Supply without insulator and erection of mounting arrangements for span wire. All components including adjusters, terminal fitting and mast attachments required to attach a span wire or a head span wire or a cross span wire or a support span wire for supporting contact wire to the structure.	Each	6272.86	797.76	10	62,728.60	7,977.60	70,706.20
3	Marking/painting of temperature & 'Y'- Measurement of OHE mast at BWA locations including cost of paint	Each	0.00	113.97	36	0.00	4,102.92	4,102.92

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
4	Supply without insulator and erection of material for termination of Single conductor of Over head equipment or terminating wire including terminating wire on structure along with mast anchor fittings, clevis assembly, adjuster, anchor double strap, ending clamp for catenary or contact wire and fittings including 9 ton assembly fitting.	Each	4727.68	749.97	8	37,821.44	5,999.76	43,821.20
5	Extra on erection under power block @100% on Item 4	Each	0.00	749.97	4	0.00	2,999.88	2,999.88
6	Supply without Insulator and erection of material for termination of all 25KV Feeder / return conductor including all materials required for termination along with mast anchor fitting, adjuster, strain clamp and fitting and 9 ton insulator assembly.	Each	5966.96	749.97	14	83,537.44	10,499.58	94,037.02
7	Supply without insulator and erection of anti-creep with Cadmium copper catenary wire in polluted area including all materials for anticreep including adjuster, mast anchor fitting at its termination on either side, structure ending clamp, fittings etc	Each	5474.78	2420.86	10	54,747.80	24,208.60	78,956.40
8	Extra on erection under power block @100% on Item 7	Each	0.00	2420.86	5	0.00	12,104.30	12,104.30

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
9	Supply without Insulator and erection of cut-in (9Tonne) Insulator including components required for cut-in insulators assembly, Terminal fittings for conductor etc.	Each	1349.09	520.17	418	5,63,919.62	2,17,431.06	7,81,350.68
10	Extra on erection under power block @100% on Item 9	Each	0.00	520.17	218	0.00	1,13,397.06	1,13,397.06
11	Supply without Insulator and erection of a suspension (9 Tonne) Insulator including 9 ton suspension insulator assembly for suspension of feeder wire etc in cluding supply of all components, clamps, nuts bolts etc. including armour tape.	Each	1398.11	308.81	21	29,360.31	6,485.01	35,845.32
12	Supply without Insulator and erection of 25 kV Post Insulator including supply of all components and fittings,(Out rigger) support jumpers including nuts bolts etc	Each	1009.85	238.96	32	32,315.20	7,646.72	39,961.92
13	Transfer of equipment from one mast or support to another including dismantling of erected bracket from old structure and consequent adjustment to OHE require such as respacing of dropper( including cost of dropper wire) levelling etc.	Each	1576.55	2167.18	166	2,61,707.30	3,59,751.88	6,21,459.18
14	Extra on erection under power block @100% on Item 13	Each	0.00	2167.18	166	0.00	3,59,751.88	3,59,751.88



SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
15	Erection of an additional bracket assembly/ assemblies on a mast or support include dismantling of an existing bracket assembly and erection of multiple cross arm where ever required and erection of bracket assembly on multiple cantilever cross arm along with any consequential adjustment to traction overhead such as respacing of droppers, levelling including nut, bolts, washers etc.	Each	0.00	1924.55	170	0.00	3,27,173.50	3,27,173.50
16	Extra on erection under power block @100% on Item 15	Each	0.00	1924.55	170	0.00	3,27,173.50	3,27,173.50
17	Re-adjustment of head-span include readjustment of head span polygon to enable the additional equipment to be suspended form head span.	Each	0.00	2124.91	100	0.00	2,12,491.00	2,12,491.00
18	Extra on erection under power block @100% on Item 17	Each	0.00	2124.91	100	0.00	2,12,491.00	2,12,491.00
19	Dismantling of overhead equipment (Catenary, Contact, Dropper, Cantilever, Jumpers, Connectors and 9 Ton Insulator) include dismantling of equipment along with termination, tensioning devices, guy rod assemblies, bracket assemblies, associated SPS etc.	Km	0.00	11437.03	2.0	0.00	22,874.06	22,874.06
20	Extra on erection under power block @100% on Item 19	Km	0.00	11437.03	2.0	0.00	22,874.06	22,874.06

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
21	Dismantling of Feeder/ Return Conductor include dismantling of feeder including guy rods, terminations, suspension assemblies, supermast and associated SPS.	Km	0.00	4957.52	0.5	0.00	2,478.76	2,478.76
22	Extra on erection under power block @100% on Item 21	Km	0.00	4957.52	0.5	0.00	2,478.76	2,478.76
23	Splicing & extension of an anchored overhead equipment include splicing of terminated overhead equipment for extension and consequent adjustment of affected equipment. The extended overhead equipment shall be deemed as starting from the centre line of the structure preceding the old terminating structure and the extended overhead equipment including nuts, bolts and washers etc.	Each	0.00	2124.91	20	0.00	42,498.20	42,498.20
24	Extra on erection under power block @100% on Item 23	Each	0.00	2124.91	20	0.00	42,498.20	42,498.20
25	Dismantling of a Section Insulator Assembly include dismantling of contact wire, catenary wire, droppers and dismantling of section insulator and splicing of catenary/ contact wire and necessary adjustment to droppers(including dropper material).	Each	1313.79	2124.91	10	13,137.90	21,249.10	34,387.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
26	Extra on erection under power block @100% on Item 25	Each	0.00	2124.91	10	0.00	21,249.10	21,249.10
27	Slewing and putting back of OHE in original shape include temporary slewing or lowering of erected OHE and/ or on adjusted to ground for special work and restoration and readjustment of the equipment after completion of special works.	Span	0.00	1722.36	50	0.00	86,118.00	86,118.00
28	Dismantling of Guy Rod include dismantling of guy rod of all fittings and SPS.	Each	0.00	694.09	50	0.00	34,704.50	34,704.50
29	Dismantling of Cantilever include dismantling of catenary/contact wire, anticreep wire (if any), fitting and SPS supporting the cantilever.	Each	0.00	687.03	110	0.00	75,573.30	75,573.30
30	Extra on Dismantling under power block @100% on Item 29	Each	0.00	687.03	110	0.00	75,573.30	75,573.30
31	Dismantling of Mast/TTC/Gantry include dismantling of foundation 150 mm below the ground level and cutting of mast/structure and finishing the ground by proper compaction and stacking of Mast/Gantry properly.	MT	0.00	4587.13	10	0.00	45,871.30	45,871.30
32	Extra on Dismantling under power block @100% on Item 31	MT	0.00	4587.13	10	0.00	45,871.30	45,871.30

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
33	Dismantling of Portal include Dismantling of foundation 150 mm below the ground level and cutting of portal and finishing the ground by proper compaction and stacking of portal, boom properly.	MT	0.00	6426.00	10	0.00	64,260.00	64,260.00
34	Extra on Dismantling under power block @100% on Item 33	MT	0.00	6426.00	10	0.00	64,260.00	64,260.00
35	Dismantling of Copper/ Aluminium Jumper include dismantling of all clamps, PG clamps, nut bolt etc.	Each	0.00	360.00	20	0.00	7,200.00	7,200.00
36	Extra on Dismantling under power block @100% on Item 35	Each	0.00	360.00	20	0.00	7,200.00	7,200.00
37	Shifting of ATD with BWA from one mast/ Support to another including nut, bolts, washers etc.	each	0.00	3091.30	20	0.00	61,826.00	61,826.00
38	Extra on Dismantling under power block @100% on Item 37	Each	0.00	3091.30	20	0.00	61,826.00	61,826.00
39	Dismantling of ATD with BWA include all fittings, attachment and SPS and anchoring of OHE at Structure.	Each	0.00	2049.51	20	0.00	40,990.20	40,990.20
40	Extra on Dismantling under power block @100% on Item 39	Each	0.00	2049.51	20	0.00	40,990.20	40,990.20

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
41	Adjustment on Bracket Assembly for lower/raising the height of contact and catenary wire where encumbrance is changed	Each	0.00	2093.82	73	0.00	1,52,848.86	1,52,848.86
42	Extra on Dismantling under power block @100% on Item 41	Each	0.00	2093.82	73	0.00	1,52,848.86	1,52,848.86
43	Adjustment on Bracket Assembly for lower/raising the height of contact and catenary wire where encumbrance is not changed	Each	0.00	1914.77	73	0.00	1,39,778.21	1,39,778.21
44	Dismantling OHE Termination Assembly including all fittings and SPS etc.	Each	0.00	1149.54	23	0.00	26,439.42	26,439.42
45	Extra on Dismantling under power block @100% on Item 44	Each	0.00	1149.54	23	0.00	26,439.42	26,439.42
46	Dismantling of anchor Assembly include dismantling of anchor terminations and SPS.	Each	0.00	894.76	20	0.00	17,895.20	17,895.20
47	Extra on Dismantling under power block @100% on Item 46	Each	0.00	894.76	20	0.00	17,895.20	17,895.20
48	Loading, Leading, Transportation, Unloading and stacking of steel structure, conductor, cantilever assembly, ATD, etc form dismantling site to concerned Engineer in charge store	MT	0.00	3343.50	100	0.00	3,34,350.00	3,34,350.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
49	Dismantling of an Isolator including dismantling of connections to the overhead equipment and associated SPS	Each	0.00	1152.53	10	0.00	11,525.30	11,525.30
50	Dismantling of a Post/ Pedestal Insulator including dismantling of connection to the overhead equipment and associated SPS.	Each	0.00	374.98	40	0.00	14,999.20	14,999.20
51	Loading of all type of Steel Structures include BFB/ RSJ, B -series, spl structure, N,O & R type ) trailer/ truck over and above the requirement given by the contractor for the completion of work or actual qty utilised in the completion of work.	MT	0.00	207.71	200	0.00	41,542.00	41,542.00
52	Unloading of all type of Steel Structures include BFB/ RSJ, B -series, spl structure, N,O & R type ) trailer/ truck over and above the requirement given by the contractor for the completion of work or actual qty utilised in the completion of work.	MT	0.00	112.13	200	0.00	22,426.00	22,426.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
53	Unloading of all type of Copper & Aluminium conductors include for all type of copper conductors (contact wire, catenary wire, dropper, bridle wire, jumpers etc) and aluminium conductors (spider conductors etc) into tower wagon/ trailer/truck over above the requirement given by contractor for the completion of work or actual qty utilised in the completion of work.	MT	0.00	101.10	12	0.00	1,213.20	1,213.20
54	Loading of all type of Copper & Aluminium conductors include for all type of copper conductors (contact wire, catenary wire, dropper, bridle wire, jumpers etc) and aluminium conductors (spider conductors etc) into tower wagon/ trailer/truck over above the requirement given by contractor for the completion of work or actual qty utilised in the completion of work.	MT	0.00	101.10	12	0.00	1,213.20	1,213.20
55	Supply and erection of copper control cables include installation and connecting up of cables for control and indication from the equipment (interruptor, motorised isolators etc) to the terminal board and terminal connectors at both end. If required to the conduits may be provided where it is necessary	m	394.14	12.87	7900	31,13,706.00	1,01,673.00	32,15,379.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
56	Supply and erection of LT power cables copper (for motorised isolators, interruptor and other applications) with route markers	m	425.51	18.38	7500	31,91,325.00	1,37,850.00	33,29,175.00
57	Excavation of trench for laying LT power cables and control cables with brick protection (class designation not below 7.5) and back filling with sand and earth etc with route marker as per drawing.	m	224.15	0.00	7500	16,81,125.00	0.00	16,81,125.00
58	Supply and laying GI/HDPE pipe under road/ground/ floor/Railway Tracks in already excavated trench as per site and as per drawing.	m	369.39	0.00	400	1,47,756.00	0.00	1,47,756.00
59	Provision of wooden key box with glass front in frame with hinges	Nos	2701.00	0.00	4	10,804.00	0.00	10,804.00
60	Supply and erection of electric shock treatment chart and first aid coloured calendar	Nos	58.00	0.00	14	812.00	0.00	812.00
61	Supply and erection of protective screen include fabrication of protective screen and angle, Tee, expanded metal (jali), GI sheet, paints etc.	sqm	7684.47	830.48	100	7,68,447.00	83,048.00	8,51,495.00
62	Supply and erection of Aerial Earth Wire 92 sqmm ASCR including mast fittings and terminations.	TKM	56651.63	2832.58	1.2	67,981.96	3,399.10	71,381.05
63	Extra on erection under power block @100% on item-62	TKM		2832.58	1.2		3,399.10	3,399.10



SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
64	Supply and erection of Negative feeder Wire 288 sqmm AAAC	TKM	185554.32	19167.50	1.2	2,22,665.18	23,001.00	2,45,666.18
65	Extra on erection under power block @100% on item-64	TKM		19167.50	1.2		23,001.00	23,001.00
66	Supply and erection of termination assembly for NFW	Nos	9698.00	987.00	2.0	19,396.00	1,974.00	21,370.00
67	Supply of suspension clamp assembly for NFW	Nos	2980.00		24	71,520.00		71,520.00
68	Supply without Insulator and erection of material for termination of all 25KV Feeder / return conductor including all materials required for termination along with mast anchor fitting, adjuster, strain clamp and fitting and 9 ton insulator assembly.	Nos	5,967.02	749.90	6	35802.12	4499.40	40,301.52
69	Supply without insulator and erection of materials for termination of copper cross feeder with gantries include mast anchor fitting, clavis, 9 ton adjuster, feeder ending clamp, double clavis and other component as necessary along with 9 ton insulator assembly and termination of cross feeder at either end. fitting component required for termination of one cross feeder at both ends constitute one set.	Set	5,676.81	749.90	10	56768.10	7499.00	64,267.10

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
70	Supply & Erection of 25kV Vacuum type Interrupter include single pole outdoor type interrupter and components and erection of the same complete with supporting frame and terminal connectors and grouting on foundation block etc. Including enabled number plate.	Nos	3,40,198.50	3,516.09	10	3401985.00	35160.9	34,37,145.90
71	Supply and Erection of 25kV Potential Transformers Type-I include complete fitting with accessories, terminal connectors and fixing boards including enabled number plates with fixing bolts and all SPS.	Nos	87,193.38	788.50	9	784740.42	7096.5	7,91,836.92
72	Supply and Erection of 42KV Lightning Arrestors (station class) include all fittings, accessories and terminal connectors along with enabled number plate and all SPS.	Nos	29,646.85	510.96	8	237174.80	4087.68	2,41,262.48
73	Supply and Erection of 7.5 KV Lightning Arrestors include all fittings, accessories and terminal connectors along with enabled number plate and all SPS.	Nos	1,382.43	266.51	0	0	0	0.00
74	Supply and Erection of Terminal Boards in control cubicles include wall mounted terminal boards with six numbers of two way terminal blocks for connecting the cables form the outdoor equipment.	Nos	9,924.11	374.95	3	29772.33	1124.85	30,897.18

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
75	Supply and Erection of an Iron clad 15A, 110 V.D.C Fuse Box complete with 2 fuse carriers and bases.	Nos	3,123.71	86.39	3	9371.13	259.17	9,630.30
76	Supply and erection of an Iron clad 230 V.A.C Fuse Box. The fuse box shall contain 4 fuse carriers and bases.	Nos	3,455.11	86.39	3	10365.33	259.17	10,624.50
77	Supply and Erection of Lead Acid Batteries.(40 AH) include 110 V, 40 AH laid acid batteries complete with stands, accessories and tool board with all connectors. This will also include supply of electrolyte, tool board with thermometer, hydrometre and rench.	Nos	83,759.84	5,633.47	2	167519.68	11266.94	1,78,786.62
78	Supply and Erection of Battery chargers for 110 V, 40 AH laid acid batteries complete with connecting lead and plug for connection to 230V AC supply.	Nos	81,547.95	768.28	2	163095.90	1536.56	1,64,632.46
79	Supply and Installation of cables (copper) for Heater supply from interruptor to 230 V AC fuse box and from fuse box to LT distribution board inside the control cubicle and also include terminal connectors at both ends.	Metre	186.29	12.87	400	74516.00	5148	79,664.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
80	Supply and Installation of cables (copper) for Catenary indication from potential transformer to terminal board in the control cubicle including terminal connectors at both ends with all fasteners on structural members and conduit etc.	Metre	268.64	12.87	400	107456	5148	1,12,604.00
81	Supply and Installation of cables (copper) for L.T. Power supply, laying in trenches, and connecting LT Power supply cable between LT supply auxiliary transformer at switching station and LT distribution board inside the control cubicle along with suitable cable boxes and connectors at both ends.	Metre	425.52	18.38	95	40424.40	1746.1	42,170.50
82	Supply and Installation of copper cables for 110V D.C. supply between 110V battery charger and battery, between battery and the D.C fuse box and between D.C fuse box and terminal board including terminal connectors.	Metre	268.64	18.38	150	40296.00	2757	43,053.00
83	Supply, Erection, oil- filtration, testing and commissioning of L.T. supply auxiliary transformers (25 kVA).	Nos	1,83,561.81	8,403.34	2	367123.62	16806.68	3,83,930.30
84	Supply, Erection, oil- filtration, testing and commissioning of L.T. supply auxiliary transformers (10 kVA).	Nos	67,906.00	11,320.00	0	0	0	0.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
85	Supply and laying of 2 core 70 sqmm, 1.1 kV grade LT XLPE insulated armoured copper conductor cable, making good the damages and termination with copper crimping socket/plug. Provision of cable route markers, testing and commissioning etc. Laying include excavation of trench, filling the trench with earth/sand with protective bricks etc as per drawing, from auxiliary transformer to Panel Board.	m	737.80	184.15	0	0	0	0.00
86	Supply and laying of 2 core 130 sqmm, 1.1 kV grade LT XLPE insulated armoured copper conductor cable, making good the damages and termination with copper crimping socket/plug. Provision of cable route markers, testing and commissioning etc. Laying include excavation of trench, filling the trench with earth/sand with protective bricks etc as per drawing, from auxiliary transformer to Panel Board.	m	1,521.63	184.15	0	0	0	0.00

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
87	Supply and erection of Iron clad 230 V.A.C Fuse Box and mounting near auxiliary transformer on mast. The fuse box shall contain 2 nos. 63 A double pole MCB (one being spare). The GI pipe of 75 mm dia pipe about 2-3 m long as per site condition and having round bend at one end for cable exit 300 mm below the ground level and upper end properly sealed, shall be provided along with necessary clamps etc.	Nos	4,955.11	270.54	0	0	0	0.00
88	Supply without Insulator & erection of 25 kV D.O. fuse switch complete with all mounting accessories and terminal connectors.	Nos	9,675.08	439.28	2	19350.16	878.56	20,228.72

SUB-SCHEDULE 'B1': GENERAL								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
89	Supply and Erection of materials for internal and external lighting of Switching Station Building (SP/SSP). This include fixing of GI conduit on wall and drawings of wire circuit with cast iron switch boxes concealed in wall with switches plug etc. provision of main board and distribution board and connections. provision of light fittings, exhaust fan, out door luminiers complete with tubes, bulb etc. Provision of earthing station and connection between earthing station to main board with 8 SWG GI wire. All material i.e light fitting, exhaust fan switch sockets, sealing rose etc shall be ISI mark. Provision of 150 watt HPSV street light fitting complete in respect including lamp on wall of the building, complete testing of wiring and earthing etc.	Nos	25,752.11	6,034.52	3	77256.33	18103.56	95,359.89
90	Design and drawings for Modification in Harsana Kalan IR SSP and Feeders from Harsana Kalan IR SSP to New Harsana Kalan HORC OHE (Feeder Length Approximate 5 TKM)	Nos	33,147.30	0.00	0	0.00	0	0.00
<b>Total of Sub-Schedule 'B1': General</b>						<b>1,60,57,831.07</b>	<b>48,30,511.39</b>	<b>2,08,88,342.46</b>

**5.3.2 Sub-Schedule 'B2': Concrete**

SUB-SCHEDULE 'B2': CONCRETE								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
1	Supply and erection of concrete of foundation and Plinth in all type of soil using M-15 Grade concrete for Main Foundation and M -20 for Grouting and Muffing as per RDSO Drawing including excavation, dressing and compaction of earth etc.	Cum.	7097.31	1760.71	1,493	1,05,96,283.83	26,28,740.03	1,32,25,024
2	Supply and erection of concrete of foundation and Plinth in all type of soil using M-15 Grade concrete for Main Foundation and M -20 for Grouting and Muffing including Reinforced concrete along with excavation, dressing and compaction of earth etc.	Cum.	9458.66	2102.90	77	7,28,316.82	1,61,923.30	8,90,240
3	Supply of materials and construction of Super Structure of SP/SSP building (Control cubicles) include RCC work, precast RCC slab, concrete flooring, cable trench, brick masonry, plastering work, doors, window grills, Rolling shutter, water pipe line ventilators and painting, white washing and colour washing, acid proof or painting of floor and wall in battery room, spreading of stone metal, provision of RCC pipe etc. The window glasses shall be minimum 5 mm thick toughened glass, plastering work 1: 4 cement sand ratio, minimum concrete grade M-20 and minimum brick compressive strength class 10.	Nos	215951.91	50639.47	3	6,47,855.73	1,51,918.41	7,99,774



SUB-SCHEDULE 'B2': CONCRETE								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
4	Brick work in foundation plinth, retaining walls and drainage. Brick class designation minimum 10.	Cum.	3191.80	748.46	100	3,19,180.00	74,846.00	3,94,026
5	Plastering of retaining wall with 1:4 cement & sand mortar.(Erection include material)	Sqm	95.52	22.40	300	28,656.00	6,720.00	35,376
6	Supply & Spreading of Ballast/Gravel in the Switch Yard of 20 mm nominal size (single sized) and having minimum 150 mm layer depth on the finished ground	Sqm	1144.19	6.22	45	51,488.55	279.90	51,768
7	Earth work in excavation and dumping at site of SSP/SP upto required level include all material and labour, necessary tools & plants including transportation, watering, ramming, levelling and compaction to more than 95%.	cum	107.91		100	10,791.00	0.00	10,791
<b>Total of Sub-Schedule 'B2': Concrete</b>						<b>1,23,82,571.93</b>	<b>30,24,427.64</b>	<b>1,54,06,999.57</b>

**5.3.3 Sub-Schedule 'B3': Ferrous**

SUB-SCHEDULE 'B3': FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
1	Supply and erection of fabricated and galvanised structures (O,N & R type portals) with all necessary components. Portal for High rise OHE include Erection, Alignment and setting before grouting, wherever required of portals assembly of boom components and erection of the same including galvanised bolts, nuts, washers etc.	MT	140052.71	8561.82	110	1,54,05,798.10	9,41,800.20	1,63,47,598.30
2	Extra on erection under power block @100% on Item 1 erection of steel	MT	0.00	8561.82	55	0.00	4,70,900.10	4,70,900.10
3	Supply and erection of Structure steel (traction masts) fabricated and galvanised of all Type : B-Series Mast. B- series Traction mast for conventional and high rise OHE include Erection, Alignment and setting before grouting of individual traction mast	MT	118127.05	2503.84	183	2,16,17,250.15	4,58,202.72	2,20,75,452.87
4	Extra on erection under power block @100% on Item 3 erection of steel	MT	0.00	2503.84	92	0.00	2,30,353.28	2,30,353.28
5	Supply only of fabricated steel other than masts (SPS)	MT	172307.95	0.00	15	25,84,619.25	0.00	25,84,619.25

SUB-SCHEDULE 'B3': FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
6	Supply and erection of a Guy Rod Assembly include both conventional and High rise OHE, of various lengths for traction masts, feeder line towers or supports complete with mast/ portal guy rod fittings, guy rod with adjustments and parts be grouted in the anchor block and erection of dwarf or stub mast with anchor plates drilled and welded in position, where required, for anchorage, SPS works, complete with bolts and nuts etc.	Each	10626.05	1142.06	74	7,86,327.70	84,512.44	8,70,840.14
7	Supply and erection of 25 kV Caution Boards, Warning Board, Number Plate, PTFE Board, Sigma Board etc. including all type boards, SPS items, nuts, bolts etc	Each	340.68	101.41	168	57,234.24	17,036.88	74,271.12
8	Supply without insulator and erection of Single bracket assembly on the traction mast or support on drop arm and shall include those on high/low level platform, in the vicinity on the turnouts, over bridges or and at locations with reduced encumbrance or terminating wires. All components including galvanised steel tubes, dropper wires, bolts and nut etc.	Each	14911.84	1035.82	360	53,68,262.40	3,72,895.20	57,41,157.60
9	Extra on erection under power block @100% on item 8	Each	0.00	1035.82	181	0.00	1,87,483.42	1,87,483.42

SUB-SCHEDULE 'B3': FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
10	Supply and erection of Regulating Equipment ATD (3-Pulley type) with counter weight assembly for conventional/Regulated OHE 2400 Kgf Tension include counter weight assembly (for both conventional and high rise OHE) including 9 Ton adjuster with double strap assembly normal/ anti-theft guide tube assembly and regulating equipment and stainless steel wire rope(various length as required) required for the regulating equipment and SPS works including nuts, bolts, washers etc.	Each	83702.91	4259.18	36	30,13,304.76	1,53,330.48	31,66,635.24
11	Extra on erection under power block @100% on item 8	Each	0.00	4259.18	18	0.00	76,665.24	76,665.24
12	Supply without Insulator and erection of materials for termination of Double conductor include all materials necessary for the termination of two overhead equipment conductors on a traction mast or structure, including appropriate mast anchoring, clavis assembly, two adjusters, ending clamps for catenary and contact wires, anchor double strap assembly, equalising/ compensating plate and fittings including 9- ton insulator (cost of insulator will be paid in section-5) assembly and terminating wire if any.	Each	10883.51	1132.40	50	5,44,175.50	56,620.00	6,00,795.50

SUB-SCHEDULE 'B3': FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
13	Extra on erection under power block @100% on item 12	Each	0.00	1132.40	25	0.00	28,310.00	28,310.00
14	Supply and erection of a structure bond include GI flat (40x 6 mm) required to provide a structure bond connecting a traction mast or structures to the nearest non-track circuited rail, or earth electrode, including shaping and drilling of the bond and erection of all fasteners (GI) at both ends. provision of heat shrinkable PVC tube for structure bond under track circuit rail.	Each	1373.12	316.30	317	4,35,279.04	1,00,267.10	5,35,546.14
15	Supply and erection of a longitudinal bond including GI flat (40x 6 mm), GI fasteners etc. required to provide longitudinal bond connecting two rails at the rail joint at the locations including shaping and drilling of the bond and erection of all fasteners at both ends.	Each	774.98	282.50	60	46,498.80	16,950.00	63,448.80
16	Supply & erection of a transverse and special bond including GI flats (50x 6 mm), fasteners etc. required to provide transverse bond connecting rails of the same/ adjacent tracks at locations. Including GI flat to provide special bonds at level crossing, FOB, ROB, bridge/protective screen etc. including shaping and drilling of the bond and erection of all fasteners at both ends	Each	1765.81	338.03	21	37,082.01	7,098.63	44,180.64

SUB-SCHEDULE 'B3': FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
17	Supply & erection of a steel Rod Copper clad 3 m Long, 19.3 mm dia earth electrode include embedded into the ground by driving or otherwise complete with protective concrete box and lugs suitable for directly connecting to GI flat .	Each	3097.31	1202.42	287	8,88,927.97	3,45,094.54	12,34,022.51
18	Supply and erection of earth bus for PTFE, Auxiliary Transformer etc include GI flats (50 x 6 mm) for providing earth bus. The earth bus either buried at a depth of 300 mm below ground level . It shall be include connecting the earth bus to earth electrode and to various floor or wall mounted equipment or structure to be earthed and also connections to non track circuited rail, wherever required. The connection of earth strip to each strips to each other shall be made either by riveting or by welding. The connection of earth strip to various equipment, structures, fencing shall be made with GI bolts, nuts, spring washer, locknuts etc.	Metre	327.68	84.51	21	6,881.28	1,774.71	8,655.99
19	Supply and erection of galvanised traction masts, main masts of switching stations fabricated in various lengths.	MT	1,10,502.09	2,503.84	10	1105020.9	25038.4	11,30,059.30

SUB-SCHEDULE 'B3': FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
20	Supply & erection of a single earth electrode copper clad steel rod 19.3 mm dia and minimum 3 mtr length including excavation, back filling and compaction of earth with all connectors	Nos	3,097.31	1,202.42	68	210617.08	81764.6	2,92,381.64
21	Supply and erection of earth bus for include GI flats (50 x 6 mm) for providing earth bus. The earth bus either buried at a depth of 300 mm below ground level . It shall be include connecting the earth bus to earth electrode and to various floor or wall mounted equipment or structure to be earthed and also connections to non track circuited rail, wherever required. The connection of earth strip to each strips to each other shall be made either by riveting or by welding. The connection of earth strip to various equipment, structures, fencing shall be made with GI bolts, nuts, spring washer, locknuts. etc.	Metre	327.68	84.51	500	163840	42255.0	2,06,095.00
22	Supply and erection of 8 SWG G.I. wire for earthing	Metre	28.61	21.73	100	2861	2173.0	5,034.00
23	Supply and erection of fencing panels at switching stations include GI fencing panels as per drawing with height of 2.4 mtr with all GI fasteners etc	Metre	5,976.18	94.17	400	2390472	37668.0	24,28,140.00
24	Supply and erection of fencing GI uprights and embedded in foundation as per drawing	MT	1,65,270.73	4,512.70	6	991624.38	27076.2	10,18,700.58

<b>SUB-SCHEDULE 'B3': FERROUS</b>								
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Material Rate (INR)</b>	<b>Erection Rate (INR)</b>	<b>Qty.</b>	<b>Materials amount (M) in INR</b>	<b>Erection amount (E) in INR</b>	<b>Total Amount in (M+E) in INR</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9 = 7+8</b>
25	Supply and erection of anticlimbing device for Switching stations include galvanised steel fixtures mounted on fencing panels and GI barbed wire as per drawing	Metre	397.89	9.66	100	39789	966.0	40,755.00
26	Supply and erection of anticlimbing device for L.T. Supply Transformer Stations. include galvanised steel fixtures mounted on fencing panels and GI barbed wire.	Nos	1,651.38	357.35	4	6605.52	1429.4	8,034.92
27	Supply and erection of anti monkey menace. Include hot dipped galvanised wire with GI angle 16 x16x8 mm with all GI bolts nuts barbed wire etc.	Nos	6,589.92	357.35	6	39539.52	2144.1	41,683.62
<b>Total of Sub-Schedule 'B3': Ferrous</b>						<b>5,57,42,010.60</b>	<b>37,69,809.60</b>	<b>5,95,11,820.20</b>



**5.3.4 Sub-Schedule 'B4': Non-Ferrous**

SUB-SCHEDULE 'B4': NON-FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
1	supply and erection of Large span wire (150 sqmm)	Metre	1147.65	51.25	2200	25,24,830.00	1,12,750.00	26,37,580.00
2	Extra on erection under power block @100% on item 1	Metre	0.00	51.25	700	0.00	35,875.00	35,875.00
3	Erection of Contact wire, Catenary wire, Large Span wire and Supply and erection of Droppers, Jumpers, PG Clamps, Splices, parallel clamp, dropper clip with Nut Bolts, ending clamps, anchor, large span wire clamp, 9 ton adjuster, anchor double strap assembly, compensating/ equalising plate etc.	TKM	107747.91	30100.63	14	15,08,470.74	4,21,408.82	19,29,879.56
4	Extra on erection under power block @100% on item 3	TKM	0.00	30100.63	7	0.00	2,10,704.41	2,10,704.41
5	Supply and Erection of Copper 25KV Feeder/ Return conductor (150 sqmm) for cross feeder/along feeder including erection of suspension assembly, termination and SPS complete with nut bolt etc.	Km	202434.34	5512.10	5.24	10,60,755.94	28,883.40	10,89,639.35
6	Supply and erection of light weight section insulator assembly	Each	134226.00	3130.06	20	26,84,520.00	62,601.20	27,47,121.20
7	Extra on erection under power block @100% on item 6	Each	0.00	3130.06	12	0.00	37,560.72	37,560.72
8	Supply & Erection of Short Neutral section assembly (PTFE)	Each	607005.76	4839.79	4	24,28,023.04	19,359.16	24,47,382.20

SUB-SCHEDULE 'B4': NON-FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
9	Supply without Insulator and erection of 25 KV single pole motorised isolator without earth contact assembly along with copper busbar	Each	117602.19	2898.53	13	15,28,828.47	37,680.89	15,66,509.36
10	Extra on erection under power block @100% on item 9	Each	0.00	2898.53	6	0.00	17,391.18	17,391.18
11	Supply & erection of large copper jumpers including drop jumper for cross feeder copper wire 150/160 sqmm include all clamps and GI nut bolts etc.	Each	5779.49	525.39	62	3,58,328.38	32,574.18	3,90,902.56
12	Extra on erection under power block @100% on item 11	Each	0.00	525.40	33	0.00	17,338.20	17,338.20
13	Supply of Earth wire include 19/2.5 mm galvanised steel stranded wire with termination, clamps, adjuster etc . It shall also include connecting by means suitable terminal spades, the end of earth screen wire to the main members of the column of portals, Gantries across which these wires are strung or to 50/6 mm G.I flat earth leads.	KM	99,575.72	2,689.25	0.5	49787.90	1344.60	51,132.49
14	Supply without Insulator and erection of a 25 KV single pole isolator without earth contact assembly.(1600 Amp) for switching station.	Nos	41,717.05	2,898.51	10	417170.50	28985.10	4,46,155.60
15	Supply without Insulators & erection of 25kV Double Pole Isolator.	Nos	68,029.85	3,201.28	10	680298.50	32012.80	7,12,311.30

SUB-SCHEDULE 'B4': NON-FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
16	Supply & erection of large copper jumpers including for cross feeder copper wire 150 sqmm include all clamps and GI nut bolts etc.	Nos	5,779.18	525.38	50	288959.00	26269.00	3,15,228.00
17	Supply & erection of small copper jumpers of 50 sqmm copper include supply of parallel clamp bimetallic strips wherever required and bolted type connector wherever required	Nos	677.46	525.38	12	8129.50	6304.60	14,434.08
18	Supply of materials and erection of Large copper jumper and drop jumper 160 Sq. mm between Aluminium bus and cross feeders	Nos	7,267.76	525.38	12	87213.12	6304.56	93,517.68
19	Supply and erection of copper strips for equipment earthing.	Metre	624.47	71.24	45	28101.15	3205.80	31,306.95
20	Supply & erection of : Aluminium bus-bars 36mm x 28mm.include bending shaping and clamping to insulators, connectors or terminals etc.	Metre	449.40	69.05	400	179760.00	27620.00	2,07,380.00
21	Supply & erection of Solid copper bus-bars 18mm. Include bending shaping etc.	Metre	2,025.50	97.96	80	162040.00	7836.80	1,69,876.80
22	Supply and erection of Aluminium bus-bar connectors:- Bus terminal (6480) including nut bolts etc at junctions and terminations	Nos	3,090.17	42.36	80	247213.60	3388.80	2,50,602.40

SUB-SCHEDULE 'B4': NON-FERROUS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
23	Supply and erection of Aluminium bus-bar connectors:- Bus splice (6490) including nut bolts etc at junctions and terminations	Nos	3,414.97	42.35	80	273197.60	3388.00	2,76,585.60
24	Supply and erection of Aluminium bus-bar connectors:- Bus tee connector (6500) including nut bolts etc at junctions and terminations	Nos	3,444.93	37.85	80	275594.40	3028.00	2,78,622.40
25	Supply and erection of Aluminium bus-bar connectors:- Terminal connector 36/20 (6530) including nut bolts etc at junctions and terminations	Nos	3,108.50	37.85	80	248680.00	3028.00	2,51,708.00
26	Supply and erection of Aluminium bus-bar connectors:- Tap connector (6520) including nut bolts etc at junctions and terminations	Nos	3,108.50	42.30	80	248680.00	3384.00	2,52,064.00
27	Supply and erection of Aluminium bus-bar connectors:- Flexible bus splice (6550) including nut bolts etc at junctions and terminations	Nos	9,042.07	42.30	80	723365.60	3384.00	7,26,749.60
28	Supply and erection of Aluminium bus-bar connectors:- Terminal connector Bolted Type (6830-1) including nut bolts etc at junctions and terminations	Nos	2,458.69	37.85	80	196695.20	3028.00	1,99,723.20
29	Supply & erection of solid copper bus-bar connectors: Bus terminal (6310) including nut bolts etc at junctions and terminations	Nos	2,046.22	42.35	80	163697.60	3388.00	1,67,085.60

<b>SUB-SCHEDULE 'B4': NON-FERROUS</b>								
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Material Rate (INR)</b>	<b>Erection Rate (INR)</b>	<b>Qty.</b>	<b>Materials amount (M) in INR</b>	<b>Erection amount (E) in INR</b>	<b>Total Amount in (M+E) in INR</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9 = 7+8</b>
30	Supply & erection of solid copper bus-bar connectors: Bus splice (6320) including nut bolts etc at junctions and terminations	Nos	2,258.21	42.35	80	180656.80	3388.00	1,84,044.80
31	Supply & erection of solid copper bus-bar connectors: Bus tee joint (6330) including nut bolts etc at junctions and terminations	Nos	6,138.66	42.34	80	491092.80	3387.20	4,94,480.00
32	Supply & erection of solid copper bus-bar connectors: Bus terminating tee (6351) including nut bolts etc at junctions and terminations	Nos	4,156.96	42.31	80	332556.80	3384.80	3,35,941.60
<b>Total of Sub-Schedule 'B4': Non ferrous</b>						<b>1,73,76,646.62</b>	<b>12,10,187.21</b>	<b>1,85,86,833.83</b>

### 5.3.5 Sub-Schedule 'B5': Catenary and Contact Wire

SUB- SCHEDULE 'B5': CATENARY AND CONTACT WIRE								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
1	Supply 150 sqmm Hard Drawn Grooved Copper Contact Wire	TKM	1130172.62	0.00	25	2,82,54,315.50	0.00	28254315.50
2	Supply 120 Sqmm, Cadmium copper catenary wire	TKM	970952.47	0.00	23	2,23,31,906.81	0.00	22331906.81
<b>Total of Sub-Schedule 'B5': Catenary and Contact Wire</b>						<b>5,05,86,222.31</b>	<b>0</b>	<b>5,05,86,222.31</b>

### 5.3.6 Sub-Schedule 'B6': Insulators

SUB-SCHEDULE 'B6': INSULATORS								
Item No.	Description	Unit	Material Rate (INR)	Erection Rate (INR)	Qty.	Materials amount (M) in INR	Erection amount (E) in INR	Total Amount in (M+E) in INR
1	2	3	4	5	6	7	8	9 = 7+8
1	Stay Arm Porcelain Insulators	Each	3341.31	0.00	380	12,69,698.56	0.00	12,69,697.80
2	Bracket Porcelain Insulators	Each	2875.71	0.00	380	10,92,769.80	0.00	10,92,769.80
3	9-Ton Porcelain Insulators	Each	4217.35	0.00	585	24,67,150.22	0.00	24,67,149.75
4	Supply of Post & Operating rod insulators	Set	44233.90	0.00	87	38,48,349.53	0.00	38,48,349.30
5	Supply of 25 kV Post Insulator	Nos	8,483.25	0.00	72	610794.00	0.0	6,10,794.00
6	Supply of Post & Operating rod insulators for single pole Isolator	Set	22,116.95	0.00	6	132701.70	0.0	1,32,701.70
<b>Total of Sub-Schedule 'B6': Insulators</b>						<b>94,21,462.35</b>	<b>0.00</b>	<b>94,21,462.35</b>

**5.3.7 Sub-Schedule 'B7': SCADA at Harsana Kalan IR SSP**

<b>SUB-SCHEDULE 'B7': SCADA AT HARSANA KALAN IR SSP</b>					
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate in INR</b>	<b>Total Amount in INR</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 = 4x5</b>
1	Design and drawings of all work of supply, erection, testing and commissioning of SCADA for the remote control centre and the controlled station include supply of requisite number of copies of designs, drawings, operating, maintenance and trouble shooting manuals, technical booklets and completion drawings.	Lumpsum	1	197332.55	1,97,333
2	Supply, erection, testing and commissioning of Remote station equipment (RTU) at remote station for Sub-sectioning Post (SSP) including power supply units, separate earthing, interconnecting cables, wiring etc. and all materials necessary for proper functioning of RTU including testing of materials and equipment at manufacturer's works. This will also include necessary transducers, summation CT, PT, supply change over arrangement, digital analogue modules, limit settings, CPU cards, surge arrester, relays and contactors etc.	Nos	1	908444.86	9,08,445
3	Modification/upgradation, testing and commissioning in existing standard SCADA software at RCC equipment for configuration, integration/hooks up of additional RTU with master station equipment/RCC.	Nos	1	783369.45	7,83,369
<b>Total of Sub-Schedule 'B7': SCADA at Harsana Kalan IR SSP</b>					<b>18,89,146.86</b>



### 5.3.8 Sub-Schedule 'B8': Non-Schedule (NS) Items

SUB-SCHEDULE 'B8': NON-SCHEDULE (NS) ITEMS					
Item No.	Description	Unit	Qty.	Unit Rate of Supply & Erection in INR	Total Amount in INR
1	2	3	4	5	6 = 4x5
1	Supply and erection of OHE caution board with supply of fixing material (Clamp, back flat strip & fastener) for "caution clearance to OHE near by rectified" Board Size 400mmx270mmx2mm	Nos.	60	758.27	45,496.20
2	Fabrication, developing and supply of sectioning diagram, schematic and TSWR board developing the sectioning diagram, schematic diagram & TSWR diagram with computerised digital printing on adhesive vinyl of adequate size as required.	Square foot	500	548.39	2,74,195.00
3	Setting up of earthing Station with buried rail at Switching post include supply of 75x8 mm GI flat for connection between buried rail and earth electrode and for connection between buried rail and running rail including nuts, bolts, copper rivets, spring washers, drilling of holes in flat /rail along with excavation and compaction of buried rail pit. .	Job	3	65,313.00	1,95,939.00
4	Supply & Erection of Safety item with supply of fixing material (Plastic/wooden/gitti & Screw) for supply & erection of electric shock treatment chart (Glass framed) size 22"x28" complete with aluminium angle beading 1"x1" all around	Nos.	12	736.02	8,832.24

<b>SUB-SCHEDULE 'B8': NON-SCHEDULE (NS) ITEMS</b>					
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Unit Rate of Supply &amp; Erection in INR</b>	<b>Total Amount in INR</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 = 4x5</b>
<b>5</b>	Provision of First Aid box and stretcher with wooden box and hanging arrangement etc.	Nos.	4	11,869.00	47,476.00
<b>6</b>	Provision of Wooden key box with glass front in frame with hinges and locking arrangement 18x24x6 inch.	Nos.	3	2,701.00	8,103.00
<b>7</b>	Supply of hand Gloves (Tested for 25 kV AC)	Nos.	6	1,155.00	6,930.00
<b>8</b>	Provision of Portable fire fighting Dry Chemical powder 5 Kg ISI mark	Nos.	3	3,270.00	9,810.00
<b>9</b>	Provision of Portable fire fighting- CO2 fire extinguisher 10 Kg	Nos.	3	14,527.00	43,581.00
<b>10</b>	Provision of Portable fire fighting- Fire bucket 10 Ltrs	Nos.	8	320.00	2,560.00
<b>11</b>	Provision of Portable fire fighting- Fire bucket Stand	Nos.	4	2,139.00	8,556.00
<b>12</b>	Supply & Erection of Electric Shock treatment chart & its first aid coloured calendar in Hindi & English Size-550mm x 900mm with plastic at top & bottom	Nos.	6	58.00	348.00
<b>13</b>	Supply of AC and DC distribution board.	Nos.	3	41,787.07	1,25,361.21
<b>14</b>	Erection of AC and DC distribution board.	Nos.	3	886.83	2,660.49

<b>SUB-SCHEDULE 'B8': NON-SCHEDULE (NS) ITEMS</b>					
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Unit Rate of Supply &amp; Erection in INR</b>	<b>Total Amount in INR</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 = 4x5</b>
<b>15</b>	(1) Hiring of AC vehicles Innova Crysta on monthly basis for the use of GC/HRIDC officials at Manesar/Gurugram for 2500 km per month. The rates are inclusive of all duties, GST, royalties, cost of maintenance, major/minor repairs, cost of lubricants, fuel, drivers, and other taxes etc for the complete job. Toll tax and parking charges shall be paid extra on certification of official using vehicle. Vehicles shall not be more than one year old.	vehicle month	96	69,345.00	66,57,120.00
	(2) Extra charge beyond 2500 km per month per vehicle (96x500=48000)	km	48000	13.09	6,28,320.00
<b>16</b>	(1) Hiring of AC vehicles Bolero/Ertiga (SUV) on monthly basis for the use of GC/HRIDC officials at Manesar/Gurugram for 2500 km per month. The rates are inclusive of all duties, GST, royalties, cost of maintenance, major/minor repairs, cost of lubricants, fuel, drivers, and other taxes etc for the complete job. Toll tax and parking charges shall be paid extra on certification of official using vehicle. Vehicles shall not be more than one year old.	vehicle month	96	51,670.91	49,60,407.36
	(2) Extra charge beyond 2500 km per month per vehicle (96x500=48000)	km	48000	13.09	6,28,320.00
<b>SUB-SCHEDULE 'B8': Non Schedule (NS) Items : 1,36,54,015.50</b>					
<b>Grand Total of Schedule 'B': (B1+ B2+B3+B4+B5+B6+B7+B8) = 18,99,44,843.05</b>					

**Total Estimated amount for Schedule 'B': INR 18,99,44,843.05**

## Price Schedule

(Please refer Price Schedule uploaded on e-Procurement portal)

<span style="border: 1px solid black; padding: 2px;">Validate</span> <span style="border: 1px solid black; padding: 2px; margin-left: 10px;">Print</span> <span style="border: 1px solid black; padding: 2px; margin-left: 10px;">Help</span> <span style="border: 1px solid black; padding: 2px; margin-left: 10px; color: red;">BoQ</span>					
Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited					
Name of Work: Contract Package SYS-1:Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification and SCADA in connection with laying of New BG Double Railway Line of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 In Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and New Harsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and New Harsana Kalan Station Yards (approximately 145 RKM and 320 TKM).					
Contract No: HORC/HRIDC/CSYS-1/2023					
Name of the Bidder/ Bidding Firm / Company :					
PRICE SCHEDULE: Schedule A (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded in the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the values in the relevant columns only)					
NUMBER #	TEXT #	TEXT #	UNIT	NUMBER #	TEXT #
Sl. No.	Item Description	Unit	ARE In To be entered by the Bidder in Rs. P	TOTAL AMOUNT With Taxes Rs. P Rs. P	TOTAL AMOUNT In Words
1.01	Schedule A: Lumpsum component of Work	Lump Sum		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

(Please refer Price Schedule uploaded on eProcurement portal)

[e BoQ](#)

Tender Inviting Authority: Haryana Rail Infrastructure Development Corporation Limited

Name of Work: Contract Package SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to NewHarsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.14 to Km 125.98 Including Rigid Overhead Conductor System (ROCS) in Tunnel Portion i.e from km 24.850 to km 29.580 and its connectivity to IR/DFC networks at New Prithla, Patli, Sultanpur, Asaudah and NewHarsana Kalan including modifications in New Prithla, Sultanpur, Asaudah and NewHarsana Kalan Station Yards (approximately 145 RKM and 320 TKM)

Contract No: HORC/HRIDC/SYS-1/2023

Name of the Bidder/ Bidding Firm /Company :							
<b>PRICE SCHEDULE: Schedule 'B'</b>							
(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 disqualified from this tender. Bidders are allowed to enter the Bidder Name and Values only)							
NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT	NUMBER	TEXT #	
Sl. No.	Item Description	Estimated Rate in Rs.	PERCENTAGE RATE (%) to be entered by the Bidder	Select Excess or less	TOTAL AMOUNT	AMOUNT Words	
1	Schedule 'B': OHE works for IR Connectivity and feeder (Harsana Kalan IR SSP to NewHarsana Kalan OHE)						
1.01	Sub-Schedule B1: General	2,08,88,342.43		SELECT	0.00	INR Zero Only	
1.02	Sub-Schedule B2: Concrete	1,54,00,000.00		SELECT	0.00	INR Zero Only	
1.03	Sub-Schedule B3: Ferrous			SELECT	0.00	INR Zero Only	
1.04	Sub-Schedule B4: Non Ferrous	1,85,86,833.83		SELECT	0.00	INR Zero Only	
1.05	Sub-Schedule B5: Catenary	5,05,80,222.31		SELECT	0.00	INR Zero Only	
1.06	Sub-Schedule B6: Signalling	94,21,462.36		SELECT	0.00	INR Zero Only	
1.07	Sub-Schedule B7: SCADA at Harsana Kalan IR SSP	18,89,146.86		SELECT	0.00	INR Zero Only	
1.08	Sub-Schedule B8: Non-Schedule (NS) Items	1,36,54,015.50		SELECT	0.00	INR Zero Only	
Total in Figures					0.00	INR Zero Only	
Quoted Rate in Words					INR Zero Only		

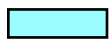


\*Tenderer is only required to fill the information in the boxes highlighted with cyan colour in Price Schedule (Excel sheet)

## Price Schedule

(Please refer Price Schedule uploaded on e-procurement portal)

Contract No: HORC/HRIDC/SYS-1/2023			
Name of the Bidder/ Bidding Firm / Company :			
<b>PRICE SCHEDULE-SUMMARY SHEET</b>			
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant details, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Value)			
NUMBER #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	TOTAL AMOUNT With Taxes Rs. P Rs. P	TOTAL
1.01	Schedule A: Lumpsum component of Works	0.00	INR Zero Only
1.02	Schedule B: OHE works for IR Connectivity and feeder (Harsan Kalan IR SSP to New Harsana Kalan OHE)	0.00	INR Zero Only
1.03	Provisional Sum	10,00,00,000.00	INR Ten Crore Only
Total in Figures		10,00,00,000.00	INR Ten Crore Only
Quoted Rate in Words		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.