Tender No.: HORC/HRIDC/SYS-1/2023
Reference: Specific Procurement Notice dated 29.05.2023.
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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

SYS-1: Reply to Pre-Tender Queries_20.07.2023

S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
1	Section III – Evaluation and Qualification Criteria, Page 67	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. Pagr 67	We are executing some Large scale EPC projects having scope of 1000+ Track KM of Electrification work (OHE and Power Supply) out of which 600+ Track KMs work is already comissioned , the value of commisioned portion of Electrification work is more than Rs. 300 Crores. However , the overall financial completion of these peojects is less than 80%. We request the client to allow the commisioned portion of ongoing similar projects and modify the clause as below. Substancial completion - Value of succesfully comissioned & completed portion of any ongoing work up to the last day of the month of bid submission will also be considered for qualification of work experience criteria. For such ongoing works, bidder need to submit client certificate wherein the value of comissioned portion of the works needs to be clearly identified and mentioned along with relevant details (Work which is not commisioned shall not be considered) . This is being followed by other clients as well - for example Delhi Metro, Chennai Metro.	Refer Item No. 4 & 5 of Corrigendum No. 2
2	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 41 of 347	5.1.7 First failure conditions performance requirement – Under Failure of One TSS, the power will be extended from the adjacent TSS...	For traction simulation study under (N-1) scenario, we can extract the Curve & Gradient from L - Section. However, to ascertain length of station & loop line we require Engineering Scale Plan. Kindly provide.	Refer Tender Drawing under Item No. 92 of Corrigendum No. 2
3	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 41 of 347	5.1.7 First failure conditions performance requirement – Under Failure of One TSS, the power will be extended from the adjacent TSS...	Please specifiy the Headway for the train operation as same is required to perform the simulation studies.	Refer Item No. 37 of Corrigendum No. 2
4	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 41 of 347	5.1.7 First failure conditions performance requirement – Under Failure of One TSS, the power will be extended from the adjacent TSS...	Please provide the Train Operation plan between Goods & Passenger Train for us to perform the simulation studies.	Refer Item No. 37 of Corrigendum No. 2

Tender No.: HORC/HRIDC/SYS-1/2023
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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
5	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 25 of 347	3.3.4 Proof Checking by independent agency….	Whether the Proof Checking & Validation agency shall also validate the Simulation results. Will the same agency can do the Simulation & Proof Checking or is it required to be different. Please clarify. We understand Proof Checking agency will only validate the detailed design prepared by the Contractor. Kindly clarify.	Refer Item No. 29 of Corrigendum No. 2
6	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Appendix 5 - Page 220 of 347 Appendix 8 - Page 229 of 347	Appendix 5 List of RDSO Specs - Page 223 of 347 - TI/SPC/PSI/TRNPWR/5200 - Technical specifications for 60/84/100 MVA ONAN/ONAF/OFAF 220/132kV/2x55 kV Scott- connected Traction Power transformer..... Appendix 8 - Specification for 60/84/100 MVA ONAN/ONAF/OFAF 132kV/55 kV Scott- connected Traction Power transformer.....	Please specify which specification in case of Scott Connected Transformer to be followed either RDSO or Appendix - 8 Specification.	Refer Item No. 90 of Corrigendum No. 2
7	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Appendix 8 - Specification for 60/84/100 MVA ONAN/ONAF/OFAF 132kV/55 kV Scott- connected Traction Power transformer..... Pg 229 of 347	Requirement of Nitrogen Protection	As per RDSO Specification No TI/SPC/PSI/TRNPWR/5200, there is no provision of NIFS in Scott Connected Transformer. Kindly amend the same.	Refer Item No. 90 of Corrigendum No. 2
8	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Clause 7.4.5 - Page 67 of 347	The Auto transformers shall be provided with Nitrogen Injection Fire Suppression system. Fire load/Nitrogen volume with rate of flow shall be calculated to ascertain adequacy of gas to quench the possible fire.	As per RDSO Specification No TI/SPC/PSI/AUTOTR/1200, there is no provision of NIFS in Auto Transformer. Kindly amend the same.	Refer Item No. 91 of Corrigendum No. 2

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
9	General	General Query	In case of discrepancy between RDSO & HORC Specs. Please confirm which specification will prevail.	Refer Sub-Clause 4.4.1 of Chapter 4, Section VII-2: Particular Specifications (PS), Part 2 of Tender Document
10	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Clause 8.14 - Page 84 of 347.	Structure/Uprights and their Foundations .	Whether exposure of Foundation is allowed after maintaining the specified distance between center line of track and edge of foundation as per SOD. If exposure is allowed, then the permissible length provided shall be 400mm above ground level. Kindly confirm.	Refer Item No. 75 of Corrigendum No. 2
11	General	Reference Drawings Yard Plans	Yard Plans i.e. ESP & SIP is required to ascertain the OHE Quantity and for conducting Simulation Study. Please provide	Refer Revised tender drawing under Item No 92 of Corrigendum No. 2
12	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 18.4.2 - 1) 201 of 347	18.4.2 - 1) Items of interface With Railways Interfacing with Indian Railways will be required for a. Power Supply Interface at Junction stations and line connecting to IR,.....	The interface works with IR at Junction Stations will require Traffic blocks as well in addition to Power Blocks. We understand that the permission for traffic blocks from IR shall be obtained by HRIDC similar to Power blocks and any cost towards the same shall be borne by HRIDC. Kindly confirm.	Refer Item No. 86 of Corrigendum No. 2
13	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Appendix - 12 Page 253 of 265	APPENDIX-12: LIST OF POWER LINE CROSSING 33kV AND BELOW	We understand that the list of Power line crossing in Appendix 12 is exhaustive and no new power line crossing will be encountered beyond the list. In case if new Power Line Crossing is encountered, the same will be shifted by HRIDC in addition to Appendix 12 List.	Tender conditions are self explanatory
14	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 1.3.3 Page 12 of 265	1.3.3 LEVEL CROSSINGS There are no Level Crossings in the works.	We understand that no Level crossing as indicated. In case a new Level Crossing is encountered, the same will be paid extra by HRIDC.	Refer Item No. 18 of Corrigendum No. 2

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15	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 1.3.1 Page 11 of 265	Clause no. 1.3.1 List of Station Building / Service Building	We understand that General Electric work of Stations/Service Building is not part of contract. Further please clarify for which buildings, GE Work is part of contract.	Refer Chapter 3 of Section VII-4: Particular Specifications (PS), Part 2 of Tender Document .
16	General	General Query	Please provide dimension/length/area of service road / approach road / footpaths for GEW works	Tender conditions remain unchanged
17	General	General	We understand HT (33kv & Above) /LT power supply modification / extension / augmentation for Stations are not part of contract. Please confirm.	Refer Chapter 3: Scope of Works of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document & Refer Appendix 11 of Chapter 15, Section VII-1: General Specifications (GS), Part 2of Tender Document.
18	General	General	Kindly clarify the voltage level of Incoming Transmission line to TSS.In tender document both 220 kV & 132 kV is indicated. Kindly confirm the exact rating.	Refer Item No. 61 of Corrigendum No. 2
19	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Clause 4.4.2 Page 30 of 347	Proven design & cross acceptance criteria	We understand in case if there is no vendor in Part 1 of RDSO List. Then we can procure material from part 2/development source.	Refer Sub-Clause 4.4.2 (2), Section VII-2: Particular Specifications (PS), Part 2 of Tender Document
20	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 8.13.9 Page 101 of 256	The testing/inspection of the material shall be done by the Engineer's and/or Employer's Representative…	Kindly indicate if client intend to employ RDSO or RITES for inspection of material. Please confirm.	Refer Item No. 22 of Corrigendum No. 2

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21	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 8.2 Page 75 of 347	FACTORS GOVERNING DESIGN OF OHE	Please provide the soil to be used for embankment and their Soil bearing capacity.	Refer Sub-Clause 8.14.3, Section VII-2: Particular Specifications (PS), Part 2 of Tender Document & Item No. 76 of Corrigendum No. 2
22	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 8.2 Page 75 of 347	FACTORS GOVERNING DESIGN OF OHE	Kindly share the Data for High flood level at TSS; SSP; SP	Refer Sub-Clause 2.16.2, Section VII-1: General Specifications (GS), Part 2 of Tender Document
23	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Clause 10.2.1 Point 19 Page 106 of 347	The Contractor (SYS-1), shall interface with Northern Railway (NR) for ensuing provision of OCC equipment (Server and Work Station etc) in NR system including adequate redundancy related to various field equipment for switching stations having connectivity with Northern Railway (at Sultanpur, Asaudah and Harsana Kalan stations). Accordingly, the Contractor SYS-1 shall furnish the requirement and I/O List of control and monitoring signals to Northern Railway for successful integration of SCADA System at the OCC of NR. Contractor (SYS-1) shall also interface with DFCCIL for SCADA system integration (between HORC and DFCCIL) for Prithla to New Prithla section.	Please confirm the make of SCADA in RCC of Northern Railway and DFFCIL for enabling integration works.	Refer Sub-Clause 10.2.1 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document is self explanatory.
24	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC 12.22 SYSTEM ASSURANCE DURING DEFECT NOTIFICATION PERIOD (DNP) - Page 159 of 256	12.22 SYSTEM ASSURANCE DURING DEFECT NOTIFICATION PERIOD (DNP)	We understand DNP for a particular section will start as soon as that part section is taken over by employer. Kindly confirm.	Refer Item No. 95 and 99 of Corrigendum No. 2

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25	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC CHAPTER 20 – MAINTENANCE OF PSI, OHE AND SCADA WORKS Page 337 of 347	CHAPTER 20 – MAINTENANCE OF PSI, OHE AND SCADA WORKS Page 337 of 347	We understand that AMC will start part wise as soon as a particular section is taken over by employer.	Refer Item No. 95 and 99 of Corrigendum No. 2
26	General	General Query	Please provide the orientation of TSS with respect of railway line as same is not being indicated in location plans.	Refer Item No. 26 of Corrigendum No. 2
27	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 79 of 347 8.4 OHE CONDUCTORS - Table: No 8.4.1: OHE Conductors (1) Minimum Sizes of Conductors - Contact Wire	8.4 OHE CONDUCTORS - Table: No 8.4.1: OHE Conductors (1) Minimum Sizes of Conductors - Contact Wire - Copper Alloy	Which kind of copper alloy to be considered for Contact Wire, please clarify.	Tender Documents are self explanatory

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28	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 79 of 347 8.4 OHE CONDUCTORS - 79 of 347 (1) Table: No 8.4.1: OHE Conductors (2) Catenary (Messenger) Wire	8.4 OHE CONDUCTORS - 79 of 347 (1) Table: No 8.4.1: OHE Conductors (2) Catenary (Messenger) Wire	In table as per Clause 8.4.1 there is mention of RDSO specs no TI/SPC/OHE/CAT/(Cu-Cd)/0971 (latest) but its reference is missing in clause 8.4 - (2). Please clarify which specs need to be considered.	Refer Item No. 70 of Corrigendum No. 2
29	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works 8.10 Modular Cantilever Page 82 of 347	8.10.1 The cantilever assembly shall conform to EN 50119. The contractor may adopt the cantilever assembly conforming to RDSO / IR specifications/ maintenance friendly with modular design proven in any international project....	No RDSO/IR vendor has international proveness. Request you to relax the clause for IR/RDSO vendors, same has been adopted in DFCC projects for IR/RDSO vendors.	Refer Item No. 72 of Corrigendum No. 2
30	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works 8.12 AUTO TENSIONING DEVICES Page 83 of 347	The tension in the contact and catenary conductors of the flexible overhead equipment shall be regulated..... The use of gas ATD shall be restricted to viaducts and tunnels	We understand 5 Pulley / 3 Pulley type ATD with counterweights is to be used on viaduct. Please confirm. Further gas type atd is now not used anywhere in IR/Metro, please remove the requirement of the same.	Refer Item No. 73 of Corrigendum No. 2
31	General Future Bay	General Query	We assume that the future bay work for Auto Transformer is not under part of present contract. Kindly Confirm?	Refer Chapter 3: Scope of Works of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document

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32	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 158 of 347 onwards CHAPTER 13 - SPARES, SPECIAL TOOLS, TESTING & DIAGNOSTIC EQUIPMENT AND MEASURING INSTRUMENTS - List of Spares	CHAPTER 13 - SPARES, SPECIAL TOOLS, TESTING & DIAGNOSTIC EQUIPMENT AND MEASURING INSTRUMENTS - List of Spares	We understand that during DNP/AMC contractor can use the spares as per the List provided by HRIDC. Please confirm.	Refer Sub-Clause 20.6 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
33	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Page 158 of 347 onwards 13.3 SPECIAL TOOLS, TESTING AND DIAGNOSTIC EQUIPMENT AND MEASURING INSTRUMENTS	13.3 SPECIAL TOOLS, TESTING AND DIAGNOSTIC EQUIPMENT AND MEASURING INSTRUMENTS	We understand that during DNP/AMC contractor can use the tools as per the List provided by HRIDC. Please confirm.	Refer Sub-Clause 20.6 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
34	General Location of Store	Location & Space of Store	Please confirm that client will provide land during construction phase for store purpose. Free of cost.	Refer Sub-Clause 8.5.3 (3) & (4) of Section VII-2: General Specifications (GS), Part 2 of Tender Document.
35	Section IX - Particular Conditions of Contract (PCC) 22. Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount) - 10 % Page 8	22. Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount) - 10 %	Bidder request to consider the subcontract value from 10% to 30% of accepted contract amount.	Tender conditions remain unchanged

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36	Section IX - Particular Conditions of Contract (PCC)31. Total advance payment. - 5 % Page 10 of PCC	31. Total advance payment. - 5 %	We understand that client will provide interest free advance. Please confirm	Refer Sub-Clause 14.2 of Section VII-GCC, Part 3 of Tender Document.
37	SYS-1_SPN - Clause No 1	The Government of India (GoI) has applied for financing from the Asian Infrastructure Investment Bank (AIIB or the Bank) towards the cost of Part A and Part B of the Haryana Orbital Rail Corridor (HORC) Project, and intends to apply part of the proceeds towards payments under the contract for “Contract Package SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), ..."	The Project being financed by AIIB, does the same gets the project qualified for Project Import,benefeits of deemed export & exemption of custom duty & GST. Kindly clarify	Refer Item No. 102 & 103 of Corrigendum No. 2
38	Part-1, Section - III : Evaluation and Qualification Criteria	The Works Mentioned in (i) or (ii) or (iii) above must have been successfully completed or substantially completed since 1st April 2016 till 28 days Prior to Deadline of Tender Submission and that are similar to the proposed works.	We would request you to kindly amend the referred clause requiring specific construction experience during last 07 years to 10 years. This shall help in more participants from bidders enabling more competitive offers. Furthermore, the other Metro organizations have followed the similar practice of allowing bidders to submit work experience of more than 05 years. We have attached EQC criterion followed by the following organizations as Annexure 1. a.Dedicated Freight Corridor Corporation of India Ltd (DFCCIL) b.Chennai Metro Rail Limited. c.Uttar Pradesh Metro Rail Corporation (erstwhile Lucknow Metro Rail Corporation) d.National Capital Region Transport Corporation (Delhi-Ghaziabad- Meerut). In view of the above we would request you to kindly amend the referred clause as below “The Works Mentioned in (i) or (ii) or (iii) above must have been successfully completed or substantially completed since 1st April 2013 till 28 days Prior to Deadline of Tender Submission and that are similar to the proposed works.”	Tender conditions remain unchanged

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39	PART-2 Part 2, Section VII-1: Employer's Requirements – General Specifications (GS)	Appendix -13: Subcontractor for ROCS System Clause 1.2 Clause 1.2: Specialist Sub-Contractor shall have the experience of Design, Supply, Installation, Testing and Commissioning of 25 kV Rigid Overhead Conductor System (ROCS) in Railways/Metro Rail/RRTS/High Speed Rail Tunnel of minimum length of 2.0 TKM on running line in a single ongoing/completed contract during the last seven years from the last date of submission of Tender.	The design speed specified in PS Clause 8.2.1 is 160km/h for ROCS system. Please confirm if the 2 TKM requirement in Appendix-13 is independent of design / operating speed of ROCS system? Or shall the experience shall be of a similar ROCS system with minimum design speed of 160km/h? Please clarify.	Tender conditions are self explanatory.
40	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)	Clause 4.4.2.(8) and Clause 4.6.2.(5).(A).(xiii) The above CAC criteria shall not be applicable for ROCS items. For ROCS, the items proposed for deployment shall conform to International Standards and RDSO guidelines. The system proposed should be designed for speed potential mentioned in PS clause 8.2.1 and the detailed design report shall be submitted. The validation of design shall be carried by third party design certification. and The ROCS system shall be designed for speed potential mentioned in the Particular Specifications and the detailed design report shall be submitted. The validation of design shall be carried by third party design certification.	It is assumed that third party validation agency shall be engaged and paid by Employer / Engineer. Please confirm.	Refer Item No. 35 and Item No. 36 of Corrigendum No. 2
41	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)	Clause 8.22.1.(4) Contact wire height is indicated as 7184mm from rail level. However, the same is shown as 7420mm in drawing GC-HRIDC-SYS1-DRW-ELE-011-A0.	Please clarify the discrepancy in the contact wire height inside tunnel as it is a key parameter for ROCS design.	Refer Item No. 71 and Item No. 82 of Corrigendum No. 2
42	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)	Clause 8.22.2.(3) The steel work shall be hot dip galvanized and the nuts, bolts and washers shall be G.I/stainless steel of suitable grade for moist and polluted tunnel atmosphere.	It is requested to confirm the galvanisation thickness (1000gm/m2 or 600gm/m2) for galvanised steel parts and steel grade for nuts, bolts and washers (A2 SS or A4 SS or GS). This will help all bidders to quote on same ground rather than making any assumptions.	Refer Item No. 60 of Corrigendum No. 2

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43	Section VII-3: Employer's Requirements– Tender Drawings	Tender Drawings	Please provide a to-scale tunnel cross-section drawing showing following details as it is a key criteria for ROCS design: - Tunnel dimensions - Top of rail to tunnel soffit height - Location of other E&M services inside the tunnel, if any	Refer Item No. 92 of Corrigendum No. 2
44	SYS1RFPPART1,CIause ITT 15.1,Page 41	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.	Kindly specify the currencies we can opt..	Tender conditions are self explanatory
45	SYS1RFPPART3,Sub-Clause 14.2.3 Repayment of Advance Paymet,Page 46	Interest in case of Delay in repayment of Advances Should there be delay in the progress and completion of Work on account of Contractor, as a result of which it is not possible to recover the Advances and interest thereon, before the date of completion stipulated in the Contract, then the interest to be charged from the Contractor on the remaining portion of the Advances beyond the original completion date specified in the Contract, shall be equal to State Bank of India's Marginal Cost of fund based Lending Rate (MCLR) applicable for the tenure of 01 year prevailing on the original completion date specified in the Contract plus 3% Penal Interest per annum.	As per our understanding the if there is a delay in advance repayment due to delay in site acess or due to due any any delay from client, contractor does not have to pay the penal interest.Kindly confirm the same	Tender conditions are self explanatory
46	General	Interest on mobilization advance	As per our understandiing Mobilization advance is interest free.Kindly confirm the same	Refer Sub-Clause 14.2 of Section VIII-GCC, Part 3 of Tender Document.
47	SYS1RFPPART3,Sub-Clause 2.1 Time for Access to Site, Paymet,Page 14	Sultanpur (IR) station with High Rise OHE is connected by single line to Badsa station with High Rise OHE.	Kindly provide the access date for connectivity to Badsa station(HORC) from Sultanpur(IR)	Refer Item No. 98 of Corrigendum No. 2
48	SYS1FINANCIALPARTPDF,CIaus e 1.7,page-16	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.	As per our understanding,The client can make partial payment of sheduIe-A items,eventhough the milestone is achieved based on the contractors claim	Refer Sub-Clause 3.10 of Appendix B to Financial Part: Price Schedules, Section IV, Tender Forms, Part 1 of Tender Document

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49	SYS1RFPPART2,CIause 5.1.2,Page 305	For the purpose of Power supply reliability, double circuit 220/132kV Power supply has been planned from Haryana Power Supply Authorities for both the Traction Sub Stations (TSSs) installing 220/132kV bays incomer CBs, Bus coupler Circuit Breakers and Transformer Circuit breakers etc.	Kindly confirm the rating for incoming supply whether it is l32kv or 220 kv	Refer Item No. 61` of Corrigendum No. 2
50	SYS1RFPPART2,CIause 20.4,Page 608	There shall be maintenance offices at Sohna, Manesar & Khakhoda and Contractor shall depute staff at all these locations suitably in consultation with the Employer. Contractor may depute staff at other locations also as per requirement.	As per our understanding maintanance office at the specified location shall be provided by the Client and Contractor has to deploy the manpower specified for DLP period.Kindly confirm the same	Refer Item No. 87 and Item No. 88 of Corrigendum No. 2
51	SYS1RFPPART2,CIause 20.5,Page 608	The space for office and OHE/PSI depot (approximately 1000 sqm) shall be provided by Employer, free of cost. Water and Electricity shall be supplied by the Employer free of cost but emergency arrangement shall be made by Contractor, if Employer's water and electricity are not available due to any reason	As per our understanding the costruction of office is not in our scope.Kindly confirm the same	Refer Item No. 87 and Item No. 88 of Corrigendum No. 2
52	General	Approch Road	Provide the cross section of approch road. Alos,provide total length and width of approch road.	Query is not clear and no reference is given, hence no reply can be given
53	Part 2, Section VII-2, 7.9.4 & 7.9.6	Plinth level and Datum Level	We understand that if the implantation is more than 10m in TSS, SP & SSP than plinth level of building/Equipmnet's /Gantry Structure shall be at NGL+600MM or HFL+600mm, whichever is higher. Also,if implantation is less than 10m in TSS,SP & SSP than plinth level of building/Equipmnet's/ Gantry Structures shall be at Rail Level+600mm. Please confirm.	Tender Documents are self explanatory
54	Part 2, Section VII-2, 7.9.4 & 7.9.6	Retaining wall	We understand that the retaining wall can be Random Rubble Masonay or RCC. Please confirm.	Refer Section VII-3: Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
55	General	Service Building	We understand that building scope is limited to control room building at TSS, SP and SSP and Tower wagon Shed only. Please confrim.	Tender Dcouments are self explanatory

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56	General	Service Building	Provide tender drawing for control room building at TSS, SP & SSP and Tower Wagon Shed and plinth area for same.	Refer Section VII-3: Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
57	General	Foundation	We understand that foundation of buildings, equipment support structures and gantry strucure can rest on backfilled soil after evaluating suitable soil bearing capacity . Please confirm.	Tender Documents are self explanatory
58	General	Retaining Wall	We understand that retaining wall shall be provided as per right of way (ROW) restriction at TSS/SP/SSP , (Required ROW side only, on other three sides of filledup earth can be retained with slope 1:2)	Tender Documents are self explanatory
59	General	Rainwater Harvesting	Bidder understands that roof top area is to be considered for Rainwater Harvesting ofTSS building only . Pleae confirm.	Tender conditions are self explanatory
60	General	Location Plan	Provide location Plan of all TSS, SP & SSP and Tower Wagon Shed.	Refer Section VII-3: Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
61	General	Tower Wagon Shed	Provide required siding detail/ required length for Tower Wagon Shed.	Refer Section VII-3: Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
62	General	Soil Data	Provide Soil data for all TSS,SP,SSP and Tower wagon shed location.	Tender Documents are self explanatory
63	General	Site Office	We understand that Main site office/project facilities shall be temporary structure/ on rented basis till the commencement of project. Please confirm	Tender Documents are self explanatory
64	Part 2, Section VII-2-Chapter-2 CI no. 2.2.2 Page-10 of 347	The 220/132 kV power supply shall be suitably stepped down at TSS as follows.	Please confirm the I/C supply for both TSS will be 132KV or 220KV.	Refer Item No. 61 of Corrigendum No. 2
65	Part 2, Section VII-2-Chapter-3 CI no. 3.2 Page-13 of 347	DESIGN BY COMPUTER SIMULATION	We presume that design simulation report not to be submitted along with proposal/tender submission. Same will be submitted after award of contract. Please confirm.	Tender Documents are self explanatory
66	Part 2, Section VII-2-Chapter-3 CI no. 3.3.4 Page-25 of 347	Proof Checking & Design Validation through an Independent agency as approved by the Engineer:	We presume that during detail design, independent design validator to be apointed by EPC contractor. Please confirm.	Tender Documents are self explanatory

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67	Part 2, Section VII-2-Chapter-3 CI no. 3.3.8 Page-26 of 347	Items of work excluded from the scope	we under presume that for both TSS line side insulator & conductor are not under present scope of work. Only provision shall be kept for termination of I/C conductor in the I/C gantry.	Refer Item No. 33 of Corrigendum No. 2
68	SYS1FINANCIALPART 5.3.1 Sub-Schedule B1 : General & Part 2, Section VII-2-Chapter-3 CI no. 3.3.5 Page-25&26 of 347	Scope of Items of work under Schedule-B:	We presume that in financial part schedule B1, quantity indicated for Sultanpur SP (1x25 kV): all PSI works along with PTFE, cross feeder and along feeder etc suitable for double line & Asaudah SP (1x25 kv): all PSI works along with PTFE, cross feeder and along feeder etc and Patli SP(1X25KV): all PSI works along with PTFE, cross feeder and along feeder etc. Any items/quantity variation will have price adjustment/implication. Please confirm.	Tender Documents are self explanatory
69	SYS1FINANCIALPART 5.3.1 Sub-Schedule B1 : General- CI no. 5.2.6, Item No. E6.2.1	Installation of software of SCADA system and modifications/ Upgradation of SCADA software at remote control centre of boundary post of Northern Railway and DFFCIL	Please arrange to provide the software/SCADA details of NR & DFFCIL where we have to modify/upgrade software.	Refer Item No. 6 of Table 18.4.2 and Table 18.4.4 of Chapeter 18, Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
70	Part 2, Section VII-2-Chapter-7 CI no. 7.1.4	The proposal for final designs of General Supply Diagram clearly indicating the type of Post being provided at each of the location, may be made to the Engineer for his approval.	We presume that TSS/SP/SSP indicated in the Table 7.1.1, 7.1.2 & 7.1.3 are only under present scope of work. Please confirm. Also please confirm Quantity for Sultanpur SP, Asaudah SP & Patli SP are already indicated in SYS1FINANCIALPART 5.3.1 Sub-Schedule B1 : General. Any items/quantity variation will have price adjustment/implication.	Tender Documents are self explanatory
71	Part 2, Section VII-2 Appendix-9 CI no. 21 Page no. 316 of 347	Specification of Auto Transformer for TSS Contractor shall develop specification for 12.3 MVA (minimum) Auto transformer for TSS on the lines of 8MVA Auto Transformer and shall obtain approval of Engineer.	Please arrange to provide the Loss figure (No Load & Load Loss) of AT at TSS. Otherwise, please confirm Losses shall be as per RDSO specification /Standard practice.	Tender Documents are self explanatory
72	General	Simulation study	Please arrange to provide the alignment drawings & rolling stock data to perform simulation study.	Refer Chapter 5 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Dcoument. Refer Item No. 37 of Corrigendum No. 2 and Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
73	General	General Power Supply Diagram (GPSD)	Please arrange to provide the GPSD (General Power Supply Diagram).	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
74	General	GSS/PSA Side scope of work	We presume that any work at GSS (Grid Substation) or PSA (Power supply Authority) end shall not be in present scope of work.	Tender conditions are self explanatory

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75	General	TSS Location/Orientation	Please confirm the TSS are parallel to track or perpendicular to track.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
76	General	Dead end gantry (Transmission line torwe)	Please arrange to provide the dead end gantry location with respect to TSS location to consider/design Gantry inside TSS.	Refer Item No. 33 of Corrigendum No. 2
77	General	Plot Area of TSS/SP/SSP	Plot area for TSS/SP/SSP are indicated in table Table 7.1.1, 7.1.2 & 7.1.3 to be followed for development of layout in line with RDSO guideline. Please confirm.	Tender conditions are selfexplanatory
78	Part 2, Section VII-2, 3.3.1 (9), Page 19 of 347	Insulation over catenary and Feeder wire under all the Bridges, FOBs, ROBs and Over-line structures. The Insulation level of the insulating sleevesconsidered, if any shall conform to EN50124- 1	Please confirm wheather insulation over catenary and Feeder wire is also required if sufficient clarenace is available as per standard under all the Bridges, FOBs, ROBs and Over-line structures.	Tender conditions are selfexplanatory
79	Part 2, Section VII-2, 3.3.6 Page 16 of 347	Auto-transformers shall be provided at each TSS, SP and SSP (as required as per design). There shall not be provision of any spare AT at TSS, SP & SSP	Please confirm	Tender conditions are selfexplanatory
80	Part 2, Section VII-2, 3.3.6 /STRUCTURE/UPRIGHTS AND THEIR FOUNDATIONS/8.14.2/page no 349	The structures / uprights shall generally be embedded in PCC / Reinforced concrete. The Concrete for the foundations shall conform to EN50119, BS 8004. In view of the faster installation requirements mechanically augured / excavated, Cast in Situ Cylindrical foundations mechanically augured not less than M-20 grade concrete of suitable size, may be proposed as compared to rectangular foundation design generally used in Indian Railways. For RCC foundations, the reinforcement shall be connected to the Mast for ensuring it as an Earthed structure as per EN 50122-1. Precast prefabricated foundation shall not be used. The formation of track is normally 5 m above the ground level in the open sections	Please confirm wheather we can propose the foundation as per RDSO Standard	Refer Item No. 75 of Corrigendum No. 2
81	General/Design	Existing and Proposed approved plan	Please provide the drawings: 1. Proposed Sectioning diagram 2 . Proposed Wiring diagram. 3 . Pegging Plan.	Indicating sectining diagram and wiring diagram is as per drawing no - 001, in Section VII-3:Tender Drawings/R1, Part 2 of Tender Document.

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82	Part-2- EMPLOYER'S REQUIREMENTS/1.1.4/Page no: 7	The Prithla station (HORC) with High Rise OHE is connected by double lines with New Prithala station of DFCCIL with High Rise OHE and also to DFCCIL line at Prithla with single line. The New Patli station (HORC) with High Rise OHE is connected by single line to Sultanpur station (IR) with High Rise OHE. Mandothi station (HORC) with High Rise OHE is connected by single line with Asaudah station of IR with normal OHE.	Please provide connecting LOP of following: 1. New Prithala station of DFCCIL with High Rise OHE 2. Sultanpur station (IR) with High Rise OHE. 3. Asaudah station of IR	Refer Chapter 18 of Section VII-2:Particular Specifications (PS), Part 2 of Tender Document
83	Part-2-Supervisory Control & Data Acquisition (SCADA/2d/Page no: 16	There shall be modifications in Harsana Kalan IR SSP along with SCADA and two 1x25 kV feeders from Harsana Kalan IR SSP to New Harsana Kalan OHE shall be provided.	Please the wheather modifications in Harsana Kalan IR SSP and d two 1x25 kV feeders from Harsana Kalan IR SSP to New Harsana Kalan OHE is this tender scope.	Tender conditions are self explanatory
84	Part-2-Preliminary Design/iv/Page no -23	Preliminary Design Report with Definitive Scheme design, Configuration of Electric Traction System, Power Supply installations, Equipment capacities/ Ratings, OHE/ROCS Installations, OHE Conductors & sizes, ROCS item sizes as confirmed by simulation study.	Please confirm wheather we can use RDSO standard without simulation study.	Tender conditions are self explanatory
85	Part-2-DESIGN AND FUNCTIONAL REQUIREMENTS/4.2 /Page no-28	Basic wind pressure --- 120 —200 kgf/m2	Please confirm the exact Basic wind pressure & arrange to provide the employment schedule for the same.	Refer Item No. 34 of Corrigendum No. 2
86	Part-2-POWER SUPPLY CONTROL POSTS AND DETAILS OF EQUIPMENT 7.1.2/Page no -62	Land has been acquired for TSSs, SSPs and SPs Power Supply Control Posts as shown in the Table 7.1.1, 7.1.2 and 7.1.3.	Please provide Location Plan of SP/SSP & TSS.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
87	Part-2-7.4 AUTO TRANSFORMERS/7.4.2/Page no-67	The full load efficiency of the Auto transformer shall be same or better (12.3 MVA for TSS and 8MVA for SSP/SP).AUTO TRANSFORMERS-12.3 MVA for TSS and 8MVA for SSP/SP	Please confirm the rating of Auto transformer for boundary SP	Tender conditions are self explanatory
88	Part-2/8.2.6 (2) Standard spans/Page no-75	OHE spans shall be in multiples of 4.5 m from a minimum of 27 m to a maximum of 54 m span length	Please confirm maximum Span for ROCS work.	Refer Sub-Clause 8.22.5 of Section VII-2: Particular Specificatiosn (PS), Part 2 of Tender Document.

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89	General	Soil report	Please provide the tentative soil report	Refer Sub-Clause 8.14.3 of Section VII-2: Particular Specificatiosn (PS), Part 2of Tender Document.
90	General/Design	Layout Plans of Buildings	Please provide the Layout Plans of Buildings for GE works.	Refer Chapter 3 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document
91	General/Design	Location Plan of SP/SSP/TSS/TW Shed/OHE PSI Depot and Staff Quatars	Please provide approved proposed location plan and GAD of SP/SSP/TSS/TW Shed/OHE PSI Depot and Staff Quatars	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
92	General/Design	PTFE neutral section for SP, TSS	Bidder requested to provide the chainage for PTFE location.	Refer Sub-Clause 8.19, Section VII-2: Particular Specifications (PS), Part 2 of Tender Document
93	General/Design	Bridge masts	Please provide GAD for major Bridge.	Refer Appendix - 10, Section VII-1: General Specifications (GS), Part 2 of Tender Document
94	Part-2/6.10 GALVANISATION OF ALL OUTDOOR STEEL WORKS/	Steel structures for outdoor TSS, SSP, SP, SS and those required for support of overhead equipment, all Small Parts Steel (SPS) works, earthing flats/pipes/rods etc shall be hot dip galvanised as per RDSO's specifications no. ETI/OHE/13 (4/84 or latest) i.e. minimum coating of zinc shall be 610 gm/m2, except for marine and chemically polluted areas.	Please confirm the zinc coating required for TSS,SP SSP.	Tender conditions are self explanantory
95	General	Last date of Bid Submission	We request you to please extend the last date of Bid Submission by atleast 3 weeks to allow us to submit our competative bid.	Refer Corrigendum No. 1

Tender No.: HORC/HRIDC/SYS-1/2023
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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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

SYS-1: Reply to Pre-Tender Queries_20.07.2023

S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
96	Part 2, Section VII-1 , 6.10.1, Page 77 of 265	NCEPTION REPORT: Within 42 Days from commencement date, The Contractor shall furnish an Inception Report for approval of the Engineer describing the Project Information, Scope of Work, Project Management Setup, Organization Chart with Key Experts, Project Manager, Communication Matrix, Site office, office for designer, Methodology to deliver identifying the Sub-systems, key activities, key performance parameters, key dates of submissions, document submission program and Initial Work Plan etc	Please reconsider days for furnishing of Inception Report as 42 days is very sort for SYS-1 package.	Tender conditions remain unchanged
97	Part 2, Section VII-1 , 6.12.2, Page 78 of 265	Preliminary Design Report: a) Within 90 days after the Commencement Date, the Contractor shall submit the Preliminary Design Report as described herein and as further detailed in Employer's Requirements…..... xii) Traction Simulation Study Results for the electrical portion of the work.	Please reconsider days of submissions of Traction Simulation Study Results as 90 days is very sort for SYS-1 package.	Tender conditions remain unchanged
98	Part 2, Section VII-1 , 5.2.1 , Page 42 of 347	5.2.1 Traction power supply for Prithla to New Harsana Kalan section of HORC shall be designed taking into consideration the rolling stock characteristics and train operation data given below in Table 5.2.1 and Table 5.2.2. The Tractive effort Vs Speed Characteristic of 12000HP locomotives to be utilised on HORC shall be as included in the Part-2, Section VII Volume 3 : Tender Drawings. The following data shall be used for all normal and emergency performance requirements of traction power supply system.	Tractive effort vs Speed character of 12000HP is to be utilised on HORC . same has not been incldued in the Part-2, Section VII Volume 3. Tender Drawings, requesting please provide ,The Tractive effort Vs Speed Characteristic of 12000HP locomotives	Refer Item No. 37 of Corrigendum No. 2

Tender No.: HORC/HRIDC/SYS-1/2023
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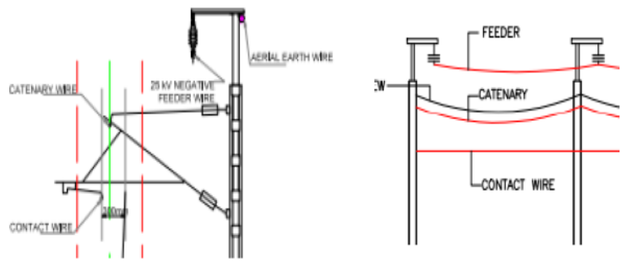
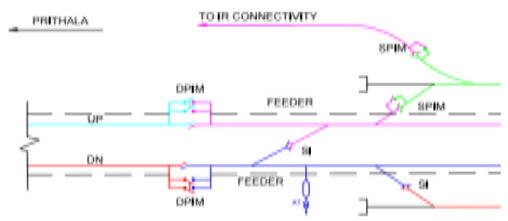
Name of Work: Contract Package SYS-1: Design, Supply, Installation, Testing & Commissioning of 2x25kV, 50Hz, AC, High Rise Overhead Electrification (OHE), Power Supply System and SCADA in connection with laying of New BG Double Railway Line from Prithla to New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

SYS-1: Reply to Pre-Tender Queries_20.07.2023

S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
99	Tender drawings: GC-HRIDC-SYS1-DWG-ELE-006-A0 & GC-HRIDC-SYS1-DWG-ELE-003-A0		Position of AEC wire is shown at Supermast in dwg No GC-HRIDC-SYS1-DWG-ELE-003-A0 whereas it is shown mast in dwg noGC-HRIDC-SYS1-DWG-ELE-006-A0, please clarify , AEC wire positions on mast or super mast	Tender Drawings are self explanatory
100	Tender drawings: GC-HRIDC-SYS1-DWG-ELE-008-A0		We pressume , All DPI and SPI are motorised for main line as well as loop/yard line.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2
101	SYS1RFPPART3,Sub-Clause 3.2,Page -20	Sub-Clause 4.12 [Unforeseeable Physical Conditions]: agreeing or determining an extension of time and/or additional cost.	As per our understanding,if there is a delay in the progress dued to Site condition, The contractor is eligible to apply for time extension as well as additional financial compensation.Kindly confirm the same	Tender conditions are self explanatory

Tender No.: HORC/HRIDC/SYS-1/2023
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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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

SYS-1: Reply to Pre-Tender Queries_20.07.2023

S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
102			**Request for Amendment in Qualification Criteria** This is to inform you that R.S. Infraprojects Pvt. Ltd. are very keen to particiapte in the subject Tender. Currently we are executing 07 Nos. (950 TKM approx.) Railway Electrififcation projects with CORE, RITES, East Central Railway and IRCON out of which CRS of 810 TKM has been done successfully. We would like to draw your attention that in EPC tenders invited by CORE, IRCON & other utilities consider Sub-Station and Transmission lines works in similar nature of works. The detailed Qualification Criteria considering sub-station and transmission lines works in similar nature of works is enclosed as Annnexure -1 and IRCON as Annexure-2. **1. Utility Name- CORE** **Tender No. ELCORE-OHE-EPC-12 (QR is enclosed at Annexure -1)** **Technical Capacity -** For demonstrating Technical Capacity and experience (the "Technical Capacity"), the Bidder shall, over the past 5 (five) Financial Years preceding the Bid Due Date, i) Have received payments for construction of eligible projects or has undertaken construction work by itsself in a PPP Project such that total sum of thereof as further adjusted in accordance with clause 2.2.2.4 (i) & (ii) is more than 2.5 (Two and half) times the estimated project clause (the "threshold technical capacity") ii) Undertaken atleast one eligible project of Railway sector as mentioned in clause 2.2.2.4/ (iii) of value less than fifteen (15) percent of the Estimated Project Cost and have received payments for not less than 75 (seventy-five) percent of value of such projects **B. For railway electrification works:** i) Railway sector would be deemed to include overhead equiptment system of railway electrification for a railway system , metro system , suburban transit system , highspeed railways , sub-station and transmission lines **Financial Capacity**: The Bidder shall have a minimum Net worth (the "Financial Capacity') of 5% of the estimated project cost at the close of preceding Financial Year. **2. Utility Name: IRCON** **Tender No. IRCON/ELECT/5035/RENFRPKG6/EPC/5A (QR is enclosed at Annexure-2)** **Technical Capacity -** For demonstrating Technical Capacity and experience (the "Technical Capacity"), the Bidder shall, over the past 5 (five) Financial Years preceding the Bid Due Date, (i) have received payments for construction of eligible projects or has undertaken construction work by itsself in a PPP Project such that total sum of thereof as further adjusted in accordance with clause 2.2.2.4 (i) & (ii) is more than 2.5 (Two and half) times the estimated project Cost clause (the **"threshold technical capacity"**) ii) Undertaken atleast one eligible project of Railway sector as mentioned in clause 2.2.2.4 (iii) of value less than 35% (Thirty Five Percent) per cent of the Estimated Project cost and have received payments for not less than 75 (seventy-five) per cent of value of such project **B. For railway electrification works :** i) Railway sector would be deemed to include overhead equiptment system of railway electrification for a railway system , metro system , suburban transit system , highspeed railways , sub-station and transmission lines. **Financial Capacity:** The Bidder shall have a minimum Net worth (the "Financial Capacity') of 5% of the estimated project cost at the close of preceding Financial Year.	Refer Item No. 4 and 5 of Corrigendum No. 2

Tender No.: HORC/HRIDC/SYS-1/2023
Reference: Specific Procurement Notice dated 29.05.2023.
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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
	With the current QR, not more than 3-4 parties will be able to participate. This will lead to non-competitive bidding and ultimately a wastage of public money. Therefore, it is requested to please accept the IRCON/CORE eligibility criteria to allow the **transmission line/susbstation works in similar bature of works along with experience in Railway Electrification with minimum of 150 TKM OHE experience through a single contract, so that we can submit our best competitive offer.**			
103	5.2 ROLLING STOCK CHARACTERISTICS AND TRAIN OPERATION D Table 5.2.1 Page 307/828	Rolling stock characteristics Ref: RDSO specifications no. RDSO/2006/EL/SPEC/0044 Rev. '13' for 12000 hp locomotive. Maximum permissible speed 160 km/h	In the referred RDSO specification, under Chapter-2 Performance Requirements, Maximum Operating Speed has been mentioned as 100 kmph. However, in the tender Table No. 5.2.1: Maximum Permissible Speed has been mentioned as 160 km/h which is in contradiction to the RDSO Specification. Kindly specify the design speed for the Freight Train and Passenger Train for carrying out the Traction Power Simulation.	Refer Item No. 37 of Corrigendum No. 2
104	Table 5.2.1 Table 5.2.2 Page 307/828	Rolling stock characteristics Ref: RDSO specifications no. RDSO/2006/EL/SPEC/0044 Rev. '13' for 12000 hp locomotive. Table 5.2.2: Train Operation plan	RDSO Specification mentioned herein pertains to Electric Freight locomotive and the Rolling stock characteristics provided in Table 5.2.1 pertains to the Freight train. However in Table 5.2.2, under Train Operation Plan, it has been stated that "The contractor will prepare the train operation chart considering the traffic requirement of passenger and goods trains as given in clause 3.2.5 of PS.". Kindly provide the rolling stock details for the passenger train to be considered for the traction simulation study.	Refer Item No. 37 of Corrigendum No. 2
105	Table 3.2.5 Page 279/828	3.2.5 Computer Simulation Analysis and Reporting: The contractor shall undertake a Computer Simulation Analysis for Prithla to New Harsana Kalan section for the following train operations	Total Freight traffic has been provided for the financial year 2025, 2027, 2032, 2037, 2042, 2047, 2052. Similarly Total Passenger traffic has been provided for the financial year 2025, 2027, 2032, 2037, 2042, 2047, 2052. Kindly confirm the horizon year for which Traction power Simulation needs to be conducted and the equipment sizing needs to be finalized.	Refer Item No. 27 of Corrigendum No. 2

Tender No.: HORC/HRIDC/SYS-1/2023
Reference: Specific Procurement Notice dated 29.05.2023.
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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
106	Table 5.2.2 Page 308/828	Table 5.2.2: Train Operation plan	In Table 5.2.2, under "Train Operation Plan", it has been stated that "The goods trains per day shall be a mix of single and double trains in the ratio of 2:1 for both UP and DN trains." Also, it has been stated "For double trains – 13000 T; For single train – 6500 T". In DFCCIL project, for the Down line, 70% of the trains has been considered to be empty (1650T). Kindly confirm whether the same assumption can be taken for the Traction Power Simulation study. Furthermore, the train operation for the passenger train has not been defined. Request to provide the same and the sequence of train operation combined for freight and passenger.	Tender conditions are self explanatory
107	Table 3.2.5 Page 279/828 Table 5.2.2 Page 308/828	3.2.5 Computer Simulation Analysis and Reporting: Table 5.2.2: Train Operation plan	Tonnage in MMTPA has been mentioned for the horizon year. For e.g., for the FY 2052, Tonnage in MMTPA is mentioned as 134 which corresponds to 0.367 MMT per day. No of Trains per day is 128. This corresponds to average loading of each train as 2868 T per train per day. This is in contradiction to the train loading stated to be considered in Table 5.2.2 as for double trains – 13000 T; For single train – 6500 T. Kindly confirm the train mix and loading for the freight trains which needs to be considered for the Simulation. Also, Kindly provide the combined train operation for both freight and passenger train.	Refer Item No. 27 & Item No. 37of Corrigendum No. 2

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
108	Clause 6.9 "Protection Scheme" Page 319/828 Clause 5.1.2 Page 305/828 Clause 6.1.3 Page 310/828	6.9.8 " (a) 220kV/132kV Transmission Line Protection as required - Under Voltage - Over current protection instantaneous and with time delay - Line Distance Protection" 5.1.2 For the purpose of Power supply reliability, double circuit 220/132kV Power supply has been planned from Haryana Power Supply Authorities for both the Traction Sub Stations (TSSs) installing 220/132kV bays incomer CBs, Bus coupler Circuit Breakers and Transformer Circuit breakers etc. 6.1.3 Traction Substations (TSSs) Incoming Bays for receiving 220/132kV double circuit power supply at TSS, the Gantry and Overhead cross feeders including terminations and insulation. Incomer bays shall have isolators and Circuit Breakers (CB) arrangement. Both the incoming bays should have facility of quick switchover of power from one 220/132 kV bay to the other 220/132 kV bay by means of 220/132kV Bus- Coupler Circuit Breaker and motorized Isolators.terminations and insulation. Incomer bays shall have isolators and Circuit Breakers (CB) arrangement. Both the incoming bays should have facility of quick switchover of power from one 220/132 kV bay to the other 220/132 kV bay by means of 220/132kV Bus- Coupler Circuit Breaker and motorized Isolators	As per the Indicative Single Line Diagram of Traction Substation 220/132/2x25kV Scott Connected Transformer drawing No. GC-HRIDC-SIS1-DRW-ELE-012_A0, Circuit Breaker for Transmission Line protection is not shown. Also, bidder understands that Supply is radial feed and under Transmission line Fault the Grid Feeding Circuit Breaker will trip. Kindly confirm the equipment and protection needs to be considered at TSS end.	Tenderer conditions are self explanatory
109	Clause 6.9 "Protection Scheme" Page 319/828	6.9.8 220kV/132kV Bus coupler protection in TSS: - Backup over current protection both instantaneous and time delayed - Bus differential Protection	In the Indicative Single Line Diagram of Traction Substation 220/132/2x25kV Scott Connected Transformer drawing No. GC-HRIDC-SIS1-DRW-ELE-012_A0, Circuit Breaker for Bus coupler protection is not shown. Kindly confirm the protection needs to be considered for Bus coupler at TSS end.	Tenderer conditions are self explanatory
110	Clause 6.9 "Protection Scheme" Page 319/828	Feeder Distance Protection (as applicable to SP)	In the indicative Single Line Diagram of Sectioning Post (SP) Drawing Number: GC-HRIDC-SYS1-DRW-ELE-014_A0, CT and Circuit Beaker are not shown. Bidder understand that the inadvertently Bridging BM (Interrupter) has been shown in SLD whereas Bridging Circuit Breaker and CTs are required for distance protection. Kindly confirm our understanding.	Tenderer conditions are self explanatory

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
111	Page 631/828	Indicative Single Line Diagram of Sectioning Post (SP) Drawing Number : GC-HRIDC-SYS1-DRW-ELE-014_A0	1.In SP SLD, CT has been shown before Circuit Breaker of Autotransformer. Bidder understands that Bushing CTs of Autotransformer can be used for Differential Protection. Separate CTs are not required. Kindly confirm the purpose of the CTs shown in SLD. 2. In SP SLD, 42kV Lightning Arresters are shown on the line connecting to OHE only. Kindly confirm whether the 42kV Lighting Arrester are required on Feeder also.	Tenderer conditions are self explanatory
112	Indicative Single Line Diagram Page 629 , 631 and 632/828	Indicative Single Line Diagram of Traction Substation 220/132/2x25kV Scott Connected Transformer drawing No. GC-HRIDC-SYS1-DRW-ELE-012_A0, Indicative Single Line Diagram of Sectioning Post (SP) Drawing Number : GC-HRIDC-SYS1-DRW-ELE-014_A0 , Indicative Single Line Diagram of Sub Sectioning Post (SSP) Drawing Number : GC-HRIDC-SYS1-DRW-ELE-015_A0 ,	1.Bidder understands that NIFPS is not required for Autotransformer at TSS/SP/SSP Locations inline with RDSO Specification TI/SPC/PSI/AUTOTR/1200 (02/21). Kindly confirm. 2. Bidder propose to follow the latest RDSO Specification TI/SPC/PSI/ERTHNG/0210 for Earthing Design and Buried Rail connection at TSS/SP/SSP. Kindly confirm. 3. Bidder understands that the latest RDSO Specifications are applicable for Equipment of TSS/SP/SSP Locations. Kindly confirm. 4. Bidder understands that the Fencing drawing shown in Page 634/828 " Indicative drawing for TSS/SP/SSP Fencing "to be followed. Kindly confirm. 5.Bidder understands that maximum 25mm/kV Creepage needs to be considered for Equipment. Kindly confirm. 6. Bidder understands that all 55kV and 25kV isolators shown in Indicative SLD of TSS , SP and SSP are manual operated only and HV Triple Pole Isolators are motorised . Kindly confirm. 7. Bidder understands that Motorised Isolators are 110V DC Operated as per latest RDSO specification TI/SPC/PSI/ISOLTR/0210 (02/21). Kindly confirm.	1. Refer Item No. 91 of Corrigendum No. 2 2. Refer Item No. 91 of Corrigendum No. 2 . 3. Refer Sub-Clause 4.4.2 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document 4.Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 . 5. Refer Item No. 128 of Corrigendum No. 2 6. Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 . 7. Tender conditions are self explanatory
113	Indicative Control Room at TSS Page 630 and 633/828	Indicative Control Room at TSS drawing No. GC-HRIDC-SYS1-DRW-ELE-013_A0, Indicative Plan and Elevation for SP and SSP drawing No. GC-HRIDC-SYS1-DRW-ELE-016_A0,	In Indicative drawing, two battery rooms are shown , Kindly confirm the purpose of two battery rooms. Kindly confirm whether any telecom room is required at TSS/SP and SSPs locations. If yes, Request you to provide the details of Ventilation and AC requirement	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 . Tender conditions are self explanatory
114	3.3 SCOPE (10) All civil works or modifications required for installation of the equipment and restoring to final finishes by the contractor shall include but not limited to: Page 284/828	c. Preparation and levelling of ground required for the work including earth filling for TSS / SSP / SP and other buildings constructed under this Contract Package and to lift the land to obtain the Finished Ground Level (FGL) within the Right of Way (ROW) for traction power installations. Earth compaction to be more than 95%.	Bidder propose to earth fill the TSS , SP and SSP area as (FGL = HFL+300mm+Bottom of Cable Trench). Also , as per standard engineering practice, retaining wall shall be provided only for those locations where filling is more and necessary as per engineering practice. Kindly confirm.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 . Tender conditions are self explanatory

Tender No.: HORC/HRIDC/SYS-1/2023
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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
115	7.2 EXTRA HIGH VOLTAGE POWER SUPPLY TO TSS Page 329/828	7.2.2 The Point of Interface between the State Power Supply Authorities (PSA) for 220/132kV, 3-phase, double circuit transmission line and the Contractor will be at the TSS's EHV Incomer Gantry, provided by the Contractor. The Gantry will be provided by 7.2.2 The Point of Interface between the State Power Supply Authorities (PSA) for 220/132kV, 3-phase, double circuit transmission line and the Contractor will be at the TSS's EHV Incomer Gantry, provided by the Contractor. The Gantry will be provided by the Contractor as per the Transmission line Termination requirement of PSA as well as the TSS. PSA will terminate the transmission line at the gantry. All the Metering bay structures, foundations and equipment after the point of interface towards the TSS shall be provided by the contractor Package-SYS-1.	Bidder understands that the incoming supply is through Overhead conductor only and not through HV Cable. The termination of Transmission line to the gantry at TSS along with the stringing hardware shall be done by PSA. The Contractor shall provide Incoming gantry inside TSS area only. Any work at GSS/ SEB area is also not under scope of contractor. Kindly confirm.	Refer Item No. 33 of Corrigendum No.2
116	6.1.3 Traction Substations (TSSs) Page 310/828	Check Metering Equipment including all associated metering class CTs and PTs for measuring power consumption shall be installed by the contractor on the incoming supply side of 220/132 kV. 2.(c) Metering Bays with Check meters, Metering CT, PT and the associated insulation, protection and Monitoring arrangement, as per Utility's specifications (Power Supply Authority as case may be) with required communication ports, on the 220/132 kV incoming side in a separate cubicle at each TSS, which should have communication with OCC through SCADA.	Bidder understands scope of telemetry with SLDC is not included in the tender. Kindly confirm.	Tender Documents are self explanatory.
117	7.6 BATTERIES AND CHARGERS Page 333/828	Brief Description of Clause/ Para No.	Bidder propose to provide 250AH Battery at TSS and 150 AH Battery at SP and SSP as per latest RDSO specification TI/SPC/PSI/40-150/CHGR/1210 and Charger as per Specification TI/SPC/PSI/200-250/CHGR/0210.	Refer Item No. 41 and Item No. 52 for Corrigendum No. 2
118	7.4 AUTO TRANSFORMERS Page 331/828	7.4.6 The Auto transformers shall be provided with necessary fire wall between two ATs on the lines of TSS as per applicable standards. 7.4.5 The Auto transformers shall be provided with Nitrogen Injection Fire Suppression system. Fire load/Nitrogen volume with rate of flow shall be calculated to ascertain adequacy of gas to quench the possible fire.	In RDSo specification TI/SPC/PSI/Auto Tr/1200 (02/21), NIFPS not included for auto transformer. Kindly confirm whether NIFPS is required.	Refer Item No. 63 for Corrigendum No. 2

Tender No.: HORC/HRIDC/SYS-1/2023
Reference: Specific Procurement Notice dated 29.05.2023.
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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
119	Clause 7.7.9 , Page 334/828 Page 311/828	3.3 AC return current , Copper Conductor cable for all sizes (s)Return current circuit cabling (minimum 3.3kV, single core) and bonding for the tracks in close coordination with Other Contractors/Agencies; Earthing and Bonding system including Buried Rail for efficient Traction return current;	Bidder propose to provide Buried Rail Connection through suitable MS Flat as per RDSO Specification TI/SPC/PSI/ERTHNG/0210 . Kindly confirm.	Tender conditions remain unchanged
120	6.1.4 Sub Sectioning Posts (SSP) Page 311/828	(6) Auxiliary Transformers 10kVA, 25kV/240V, single phase	Kindly confirm whether the Auxiliary Transformer shall be 10kVA or 25kVA	Refer Item No. 46 for Corrigendum No. 2
121	6.1.5 Sectioning and Paralleling Posts (SP) Page 312/828	(5) Auxiliary Transformers 10 kVA, 25kV/240V,single phase;	Kindly confirm whether the Auxiliary Transformer shall be 10kVA or 25kVA	Refer Item No. 51 for Corrigendum No. 2
122	Note: The SP at Sultanpur (for double line) and Asaudah (for single line), as approved by Engineer, shall be of 1x25 kV system and shall have following equipment but not limited to Page 313/828	(6) Return Current Circuit Cabling;	Bidder understand that Return Cabling is not required at 1x25kV SP locations . Kindly confirm .	Refer Item No. 57 for Corrigendum No. 2
123	6.4 LIGHTNING ARRESTERS Page 316/828	6.4.7 In compliance to RDSO's Maintenance Instruction No. TI/MI/0048, the Lightning Arrester shall be provided with Dis- connector assembly along with Telltale Sign so as to enable faster identification and isolation, if required, and consented by the Engineer.	Kindly provide the position of Disconnector to be provided with 42kV Lightning Arrester	Tender conditions are self explanatory
124	6.5 SHORT CIRCUIT CAPACITY Page 317/828	for 132kV - 30kA for 1 sec	Kindly confirm the short circuit capacity for 132kV is 30kA for 1 sec or 31.5kA for 1 sec as per CEA.	Tender conditions remain unchanged
125	Table 7.1.1 List of Proposed Traction Substations (TSS), Table 7.1.2 List of Proposed Sectioning Post (SP) , Table 7.1.3 List of Proposed Sub Sectioning Posts (SSP) (Mid-Section) Page 328/828		Kindly provide the location Plans of TSS , SP and SSP locations.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
126	7.8 CIVIL WORKS & ILLUMINATION AT TSS, SP, SSP and Tower Wagon Shed Page 335/828	(10) Transformer/ auto Transformer weight carrying Road in side TSS/SSP/SP,	Bidder propose to provide 5 m, wide road at TSS location and 4 m wide road at SP/SSP Location due to area constraints. Kindly confirm.	Refer Sub-Clause 7.9.12 of Section VII-2:Particular Specifications (PS), Part 2 of Tender Document

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127	7.9 CONTROL ROOM, TOWER WAGON SHED AND YARD LIGHTING Page 336/828	7.9.1 In TSS, SP & SSP, Contractor shall provide a road & rail system integrated with transformer foundation to enable installation and the replacement of any failed unit . The Contractor shall take such rail road system to the adjoining approach road for easy transport of the transformers and heavy equipment through rail/road transport.	Bidder propose to provide Rail cum Road in front of Transformer Bay only . For remaining Switchyard area , The contractor shall provide Reinforced Cement Concrete (RCC) roads to permit transportation of all heavy equipment. Kindly confirm .	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
128	Page 618/828	Indicative Power Supply Diagram Drawing No. GC- HRIDC-SYS1-DRW-ELE- 001_A0	1. Bidder understands that DPIM and SPIM are 230V AC Operated Isolator and AC Supply shall be provided from ACO Panel of Station Building. Separate ACDB / LT Supply Transformer is not required. Kindly confirm 2. Kindly confirm whether separate Traction RTUs are required at Station Locations for Operation of Motorised Isolators. 3. Pirthala SP is boundary line SP, Therefore , Kindly confirm the number of Autotransformer required at Pirthala SP. 4. During outage condition of Mandhoti TSS , the feed from Chandla Dungerwas shall be extended to Mandhoti TSS or Harsana Kalan SP .Kindly confirm Kindly confirm whether bridging Interrupters are required at TSS Locations.	1. Tender conditions are self explanatory 2.ReferItem No. 129 of Corrigendum No. 2. 3.Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 and Item No. 63 of Corrigendum No. 2 . 4.Refer Sub-Clause 5.1.7 of Section VII-2:Particular Specifications (PS), Part 2 of Tender Document. Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
129	Indicative Power Supply Diagram Page 618/828 , Page 281/828	Indicative Power Supply Diagram Drawing No. GC- HRIDC-SYS1-DRW-ELE-001_A0 and (d) There shall be modifications in Harsana Kalan IR SSP along with SCADA and two 1x25 kV feeders from Harsana Kalan IR SSP to New Harsana Kalan OHE shall be provided. Necessary interface with Northern Railway (NR) shall be done by the Contractor for these works.	Kindly provide the details of scope of 25kV Feeder connecting from Loop line to Harsanakalan SSP (IR) . Also provide the details of Modification works.	Tender conditions are self explanatory
130	Indicative Single Line Diagram of Sub Sectioning Post (SSP) Page 632/828	Indicative Single Line Diagram of Sub Sectioning Post (SSP) Drawing Number : GC-HRIDC- SYS1-DRW-ELE-015_A0 ,	1. Kindly provide the details of protection envisaged for SSP as CT/ PT shown near to Autotransformer. 2. Kindly confirm whether the isolators near to Autotransformer are manual operated or Motorised at SSP location. 3. In SSP SLD , 42kV Lighting Arresters are shown on the line connecting to OHE only. Kindly confirm whether the 42kV Lighting Arrester are required on Feeder also.	1.Tender drawings are self explanatory. 2.Tender conditions are self explanatory. 3. Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
131	1.1 INTRODUCTION Page 272/828	1.1.7 Electric power supply at 220/132 kV through Transmission lines from SEB Grid Substation to TSS shall be provided.	Kindly confirm the incoming supply is 220kV or 132kV at TSS for proper estimation work.	Refer Item No. 61 of Corrigendum No. 2

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132	2.2 POWER SUPPLY FOR THE HARYANA ORBITAL RAIL CORRIDOR Page 275/828	The Corridor is proposed with 2 Nos Traction Substations (TSS) and Switching Stations (SP-3 nos., SSP- 5 nos) of 2x25 system for power supply to the sections. There shall be 2 nos. SP of 1x25 kV system at Sultanpur (for double line) and Asaudah (for single line) for isolation of supply from IR at connecting locations and feed extension.	Kindly confirm the scope of work at 1x25 kV system at Sultanpur (for double line) and Asaudah (for single line) .	Refer Sub-Clause 6.1.5 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
133		General OHE Design	1.Kindly share the As Erected Layout Plan of the existing electrified line. 2. Kindly share the Layout plan of Prithala Station(KM 88-93), Patli Station(KM 46-50), Sulthanpura Station(KM 5-9), Asaudha Station(KM 36-40) and Harsana Kalan Station(KM 34-38). 3.Kindly share the CAD copy of the Alignment.	Refer Item No 86 of Corrigendum No. 2
134	Chapter4 4.2 Design Environment Page 293/828	Wind Pressure	Kindly confirm the wind pressure for the entire section.	Refer Item No. 34 of Corrigendum No. 2
135		General OHE Design	Kindly provide SIP & ESP of all proposed stations and Existing IR Stations (SRJ Chainage not shown in provided Alignment).	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
136		General OHE Design	Take off of the section at Prithla station has been shown from Dismantled line in the tender alignment. Please recheck and confirm the same.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
137	Chapter 8 8.4 OHE Conductors Page 344/828	Contact and Catenary Wire	Bidder is free to propose any copper alloy composition for contact and catenary Wire. Kindly confirm our understanding.	Refer Item No. 70 of Corrigendum No. 2
138	Chapter8 8.2.3 OHE structures on bridges Page 340/828		Kindly provide the from and to chainages of long bridges and long viaducts.	Refer Item No. 66 of Corrigendum No. 2
139	Chapter8 8.2.6 Page 342/828	(2) Standard spans	Bidder understands that maximum span should be decided by design calculation based on the parameters mentioned in the respective para of tender and wind speed for operation of trains. So, maximum span of OHE is outcome of the design calculation. Kindly confirm our understanding.	Tender documents are self explanatory
140	Para 8.3.1 Page 342/828 & Drawing No. GC-HRIDC-SYS1-DRW- ELE-001_A0 Page 618/828	Sectioning Diagram	Bidder understands that the sectioning drawing provided in tender shall be followed for bidding . Any change or deviation in the sectioning diagram shall be dealt as variation during detailed design. Kindly confirm our understanding..	Refer Item No. 101 of Corrigendum No. 2

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141	8.10 Cantilever Assemblies Page 347/828	8.10.1 The cantilever assembly shall conform to EN 50119. The contractor may adopt the cantilever assembly conforming to RDSO / IR specifications/ maintenance friendly with modular design proven in any international project, if it meets the functional requirements of the project.	Bidder understands that Standard RDSO type cantilever assembly will be used for this project. Kindly confirm our understanding.	Refer Item No. 72 of Corrigendum No. 2
142	8.12 Auto Tensioning Devices Page 348/828		Please clarify the type of ATD to be used for the project.	Refer Item No. 73 of Corrigendum No. 2
143	8.12 Auto Tensioning Devices Page 348/828		Bidder is free to propose other type of ATD other than gas ATS in viaduct and tunnel portion. Kindly confirm our understanding.	Refer Item No. 73 of Corrigendum No. 2
144	8.12 Auto Tensioning Devices Page 348/828		Bidder understands that Tension in Contact and Catenary Wire is 1200kgf each. Kindly confirm our understanding.	Tender documents are self explanatory
145	8.14 Structure/Uprights and their Foundations Page 349/828		Bidder understands that we can propose height of the mast as per IR for standard height of OHE and height of mast as per high rise manual for High rise OHE. Kindly confirm our understanding.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
146	8.16 Outdoor Steel Parts Page 351/828		Bidder request to provide the from and to chainages of the polluted and non-polluted section.	Refer Sub-Clause 8.18.1 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
147	8.18.1 Insulators Page 352/828		Kindly provide the creepage distance required for polluted area and non polluted area for Bracket, Stay and Cut in Insulator	Refer Item No. 78 of Corrigendum No. 2
148	8.22 Rigid Overhead Conductor System (ROCS) Page 355/828		Kindly provide the design and operating speed for designing of ROCS in tunnel.	Refer Sub-Clause 8.2.1 of Section VIII-2: Particular
149	Para 8.22.2 Supporting structure Page 356/828	(2) Anchor plug and anchor bolt/ Chemical fasteners of supporting fixture.	Bidder understands that the provision for anchor bolts of ROCS structure inside the tunnel will be provided by Tunnel Civil Contractor as per the design of SYS1 Contractor.	Refer Item No. 79 and 80 of Corrigendum No. 2
150	8.22.5 Standard length of conductor rail system and interlocking joints Page 359/828	(a) Standard length of conductor rail is generally around 10 metre	Bidder understands that the standard length of the conductor rail varies from 10-12mtr as per different OEMs of ROCS. Please amend the clause for standard length of conductor rail i.e., 10-12 m.	Tender conditions remain unchanged
151	8.22.6 Protection cover for rigid conductor rail Page 359/828	To avoid this risk, tunnel mouths and local moistures points and water leakage points, conductor rail is provided with a protective cover.	Kindly provide the length and details of water leakage points in the tunnel for consideration of protective cover.	Refer Item No. 83 of Corrigendum No. 2

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152	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works 8.14 Structure/Uprights and their Foundations Page 349/828		Kindly provide the density of soil to be adapted for the entire section.	Refer Item No. 76 of Corrigendum No. 2
153	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works 8.3 Sectioning Of Overhead Equipment Page 343/828	8.3.1 The OHE between the Stations may be under Power block in case of Maintenance or failure, the station Loops shall be planned to be isolated through the Motorized Isolators	Kindly confirm Bus Bar for Isolator shall be of Aluminium or Copper.	Refer Item No. 130 of Corrigendum No. 2
154	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works	General OHE Design	Kindly confirm whether overrun lines have to be electrified or not.	Refer Item No. X of Corrigendum No. 2

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155	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works 8.2.3 OHE structures on bridges Page 340/828	(4) For OHE masts to be erected on bridges and viaducts, the Civil Contractors working in various parts of the Pirthla – Harsana Kalan section shall provide holes for fixing Masts with base plates. The contractor shall interface with Civil Contractor so that masts with base plate are ordered and fabricated at the supplier's works and duly galvanized after welding and drilling holes in the base plate.	Bidder understand that bridge mast base plate to be provided by civil contractor, however bolt design to be confirmed by SYS-1 contractor.	Refer Item No. 66 of Corrigendum No. 2
156	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Chapter 8 8.1.1 General Page 339/828	(3)(g) 25 kV OHE system for yard lines at the stations and for the connecting chords of IR.	Kindly provide details of type of OHE (Conventional/High rise) at each connection point of IR/DFCC for entire section.	Refer Item No. 30 and Item No. 31 of Corrigendum No. 2
157	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Chapter 8 8.1.1 General Page 339/828	(3)(g)25 kV OHE system for yard lines at the stations and for the connecting chords of IR.	Bidder understands that from First Loop line Conductor sizes of 65 sqmm Catenary (Cu-Cd) and 107 Sq mm Contact wire (HDGC) in line with IR 1 x 25 KV system to be considered. Kindly confirm our understanding.	Refer Item No. 70 of Corrigendum No. 2

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159		General OHE Design	Contractor assumes that the Anti creep wire is of 19/2.5 sq.mm Galvanized steel wire. Kindly confirm.	Refer Item No. 130 of Corrigendum No. 2
160		General OHE Design	Kindly provide General power supply Drawing & Sectioning Drawing for all Existing IR Connectivity Stations.	Refer Item No. 86 of Corrigendum No. 2
161		General OHE Design	Kindly clarify the tentative change for proposed PTFE location between 1X25kV and 2X25kV	Refer Sub-Clause 8.19, Section VII-2: Particular Specifications (PS), Part 2 of Tender Document
162		General OHE Design	Kindly clarify whether the New Harsala Kalan station OHE shall be of 1X25kV or 2X25kV system.	Refer Item No. 162 of Corrigendum No. 2
163		General OHE Design	Kindly provide GAD of all bridges & Viaduct for bridge mast.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
164	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Chapter 8 8.1.1 General Page 339/828	Scope of works	Kindly provide exact km chainages of all the connection points of IR/DFCC for entire section in the scope of SYS1 Contractor.	Refer Item No. 30 and Item No. 31 of Corrigendum No. 2

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165	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Chapter 8 8.1.1 General Page 339/828	Scope of works	Kindly provide the length of OHE to be considered for each connection point of IR/DFCC in the scope of SYS1 Contractor	Refer Item No. 30 and Item No. 31 of Corrigendum No. 2
166		General OHE designs Insulated Catenary Wire	Kindly confirm if provision of Insulated Catenary under Overline Obstructions is necessary.	Refer Sub-Clause 3.3 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
167	Part 1, Tendering Procedures Section I - Instructions to Tenderers (ITT), ITT 15.1 Page 41/217	The currency(ies) of the Tender and the payment currency(ies)	As we have exposure to other currencies other than INR for certain OHE components, we request you to kindly include freely convertible currencies of like USD & EURO in Tender Payment currencies.	Tender conditions are self explanatory
168	Part 1, Tendering Procedures Section IV. Tender Forms Appendix B to Financial Part: Price Schedules Page 149/217	Price quoted...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.	We understands that Price quoted in Price Schedule Schedule-A & Schedule-B is inclusive of all Taxes (like GST), Custom Duty, Cess and other charges. Kindly confirm.	Tender conditions are self explanatory
169	Part 2, Section VII-2: Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Appendix B to Financial Part: Price Schedules Page 602/828	Maintenance of PSI,OHE & SCADA Works (AMC)	We understands that Annual Maintenance of section/milestones shall commence along with Defect Notification Period for each section/milestones. Kindly confirm.	Refer Item No. 95 and 99 of Corrigendum No. 2

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170	Part 2, Section VII-1: Employer's Requirements - General Specifications (GS)-for 2x25 kV, AC Traction electrification Section VII-1: Employer's Requirements - General Specifications (GS) Pg 69/828	CHAPTER 6 – Design Requirement	We understand that Design & Specification of this project shall be followed as per RDSO Specifications and standard. Kindly confirm.	Tender conditions are self explanatory
171	Section IX - Particular Conditions of Contract (PCC) Section IX - Particular Conditions of Contract (PCC)	General-Delay in Access & Others	We request you to mention the compensation to be paid to contractor for any delay in handing over the access by the Employer to the Contractor. Kindly specify the compensation.	Tender conditions remain unchanged
172	Section IX - Particular Conditions of Contract (PCC) Page 12/86 Section IX - Particular Conditions of Contract (PCC) Page 12/86	43. Liability for breach of professional duty (19.2.3)	We request you confirm the amount for Professional Indemnity Insurance Policy.	Tender condition is selfexplanatory and clear
173	Part 1, Tendering Procedures Section IV. Tender Forms Section IV. Tender Forms Page 151/217	5.2 Apportionment of Contract Price for payments under various Cost Centre for Sub-Head 'E'- Electrification Works	As per table 5.2 (below), Apportionment of Contract Price for payments "Total Cost Centre for **E1=0.0357X 'E'**. Request you to kindly correct the percentage distribution of Total Cost centre of E1. 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'	Refer Item No. 8 of Corrigendum No. 2

Tender No.: HORC/HRIDC/SYS-1/2023
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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 New Harsana Kalan of Haryana Orbital Rail Corridor (HORC) Project from Km (-)2.099 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 315 TKM).

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S. No.	Reference to Tender Document (Clause/ Para No. & Page No.)	Brief Description of Clause/ Para No. (As quoted by the prospective Tenderer)	Query Raised	Reply of HRIDC
174	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS)-for 2x25 kV, AC Traction electrification and associated works Section VII-2 : Employer's Requirements - Particular Specifications Page 279/828	3.2.5 Computer Simulation Analysis and Reporting: The contractor shall undertake a Computer Simulation Analysis for Prithla to New Harsana Kalan section for the following train operations:	Kindly confirm whether voltage dependent line current limitation according to EN 50388 is applicable for Voltages range between 22.5 to 19 kV.	Refer Subclause 5.3.1 of Section VII-2: Particular Specifications (PS), Part 2 of Tender Document.
175	Part 1, Tendering Procedures Section IV. Tender Forms Section IV. Tender Forms	Form EXP-3.4.2(a)	We understand that below Form EXP-3.4.2(a) table will be from 1 to 4 in place of 3 to 6 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 Item No. 6 of Corrigendum No. 2

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176	Part 1, Tendering Procedures Section IV. Tender Forms Section II – Tender Data Sheet (TDS) Page 41/217	ITT 19.3 Tender Security	Nowadays most of the scheduled Commercial Banks are insisting to add the 'Notwithstanding Clause' at the end of the BG text as below: Notwithstanding anything contained herein: a)Our liability under this Bank Guarantee shall not exceed Rs_____ (Rupees only)(the "Guaranteed amount") b)This Bank Guarantee shall be valid up to (the Expiry Date),and c)We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before (extended claim period) and the Bank shall be discharged of all its liabilities under the Guarantee thereafter, irrespective of whether or not the original bank guarantee is returned to us. The extended claim period is 'The Expiry Date + 1 year'. **In View of above, we would request you to kindly allow the bidder to submit the Bank Guarantee with the above-mentioned Notwithstanding Clause**.	Tender conditions are self explanatory
177	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Chapter-1 Clause 1.1.4 Pg 272/828	The Manesar station (HORC) with High Rise OHE is connected with the Maruti Suzuki factory siding with High Rise OHE and also connected with IR Patli station with High Rise OHE and work is being executed by another agency.	The bidder kindly requests information regarding the exact chainages up to which the other agency will execute the works. Additionally, due to insufficient track center between lines near the station area, the bidder understands that the provision of portal arrangements, considering the siding and IR Connecting line, will be done by another agency/contractor. Kindly confirm	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
178	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Chapter-1 Clause 1.1.4 Pg 272/828	The Prithla station (HORC) with High Rise OHE is connected by double lines with New Prithala station of DFCCIL with High Rise OHE and also to DFCCIL line at Prithla with single line	We kindly request you to provide clear and legible drawings for this connection. This will ensure accurate understanding and interpretation of the design requirements.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .

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179	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Chapter-1 Clause 1.1.4 Pg 272/828	The Manesar station (HORC) with High Rise OHE is connected with the Maruti Suzuki factory siding with High Rise OHE and also connected with IR Patli station with High Rise OHE and work is being executed by another agency.	Near the station area, there is insufficient Track Centre between the lines, requiring the provision of portal arrangements while considering the siding line and IR Connecting line. The bidder understands that this specific work is to be carried out by another agency or contractor. The bidder also understands that their scope of work is limited to the provision of OHE for the Main line only. Kindly confirm.	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
180	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Chapter-1 Clause 1.1.5 Pg 272/828	There is viaduct between Sohna IMT station and tunnel from km 21.345 to km 24.849.	Kindly provide the detailed cross-section drawing of the Viaduct to check for the provision of OHE (Overhead Equipment).	Refer Section VII-3:Tender Drawings/R1 under Item No. 92 of Corrigendum No. 2 .
181	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Clause 3.3.1 (6) 2x25 kV Overhead Equipment (OHE) and ROCS Pg 283/828	Modifications to existing OHE, feeder wires including dismantling of OHE, feeders, removal of Brackets, cutting mast/portal below 150 mm from ground level (including breakage of foundation below 150 mm from ground level to avoid any hindrance). removal of existing auxiliary transformer. The modifications in IR OHE shall be required Sultanpur, Asaudah and Harsana Kalan stations and all released material of these modifications shall be returned to IR.	Kindly provide the total approximate scope of modification and dismantling at the IR Station (i.e., No. of. Foundation/Cantilever/AT/SI, etc to be dismantled/removed).	Refer Item No. 86 of Corrigendum No. 2
182	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Clause 8.14.4(a) Extra clearance on Curves Pg 350/828	The minimum setting of structures on curves shall be increased by the figures for curve allowance being taken from Schedule of Dimensions for HORC.	Kindly provide the SOD of HORC as mentioned in the Clause8.14.4(a).	Refer Item No. 77 of Corrigendum No. 2
183	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Clause 3.3.1(3) 240V, single phase, A.C. Auxiliary power Supply.(iv) Pg 282/828	The minimum setting of structures on curves shall be increased by the figures for curve allowance being taken from Schedule of Dimensions for HORC.	Kindly provide the chainages of LC Gate throughout the section.	Refer Item No. 18 of Corrigendum No. 2

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184	Part 2, Section VII-2 : Employer's Requirements - Particular Specifications (PS) Clause 3.3.1(3) 240V, single phase, A.C. Auxiliary power Supply. (iv) Pg 282/828	Signal Locations	Kindly provide the Signaling Interlocking plan (SIP) for whole project for better estimation.	Refer Item No. 85 [Table 18.4.1 (a) and Table 18.4.1 (b)] and Item No. 26 of Corrigendum No. 2
185	Part 2, Section VII-2: Employer's Requirements - Particular Specifications (PS) Chapter 20 – Maintenance of PSI, OHE and SCADA works Pg. 602/828	AMC Contract	In other EPC contracts of Indian Railways & DFC, the scope of EPC contractor is limited up to DNP. The Annual Maintenance Contract (AMC) is typically handled by the Employer directly or by a separate third-party agency as EPC contractor doesn't have separate periodical maintenance Business. Therefore, we kindly request you to exclude the scope of the AMC from the EPC Contractor's responsibilities for this project. However, we are willing to assist Employer in formalizing the AMC contract with the third-party agency and the employer. The ultimate responsibility and liability for the AMC will lie between the signed parties. Request your support to delete the AMC requirement for more competitive Prices.	Tender conditions remain unchanged
186		General	We kindly request to provide the KMZ file for the entire section of the project. The KMZ file for sections C1, C5, and C6 is not available on the website.	KMZ file is uploaded on HRIDC website
187	Section -I Instruction to Tenderers (ITT) D. Submission of Tenders Clause 21 Pg 21/217	D. Submission of Tenders	Bidder understands that tender can be submitted either Electronically (or) Hard copy submission i.e., through any one mode. If the Bidder chooses to submit the Bid Electronically through Online https://etenders.hry.nic.in portal, only Original Bank Guarantee has to be submitted by hand within 10 days after deadline of Submission of Tender. Kindly confirm.	Refer Sub-Clause ITT 19.3, Sub-Clause ITT 20.1 and Clause ITT 21, Section II TDS, Part 1 of Tender Document which is selfexplanatory.
188	Section -I Instruction to Tenderers (ITT) ITT 19.3 Pg 38-39/217	**ITT 19.3** Further, the bank guarantee in original form along with a copy of … sent by Employer within ten (10) days of deadline of submission of Tender.	We understand that Original Bank Guarantee has to be submitted in Hard copy within ten (10) days **after** deadline of submission of Tender. Kindly confirm	Tenderer conditions are self explanatory

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189		General-Submission	We understand that, as per the instructions provided in the Tender, Bidder doesn't require to submit the complete set of Tender Documents, Drawings and addendums when submitting the technical part of the documents. Kindly confirm.	Tenderer conditions are self explanatory
190		General-Project TKM	The project's scope mentions a total TKM (Track Kilometre) of 320 TKM. If there are any increases in the TKM during the detail design stage, which will be treated as variations as per tender conditions. Kindly confirm this understanding.	Refer Item No. 101 of Corrigendum No. 2