

NOTICE INVITING EXPRESSION OF INTEREST (EOI)

EOI NO.: RCIL/NR/TM/JP/EOI/NWR/DY CSTE/Const/EI/AII-DIV/2024-25 DATED 10-02-2025

Expression of Interest (EOI) from RailTel's Empaneled Business Associate Partners for Selection of Implementation Partner for exclusive POST-BID TEAMING ARRANGEMENT for "Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuja Road Kuwanthal, Devgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears."

Issued by:



RailTel Corporation of India Ltd

(A Nav-Ratna PSU under Ministry of Railways)

Territory Office, Jaipur

Website:- <https://www.railtelindia.com>

Disclaimer

RailTel Corporation of India Ltd. (herein after called the RailTel) has prepared this Expression of Interest (EOI) document solely to assist prospective bidders in making their decision of whether bid or not to bid.

While the RailTel has taken due care in the preparation of information contained herein and believes it to be accurate, neither the RailTel or any of its Authorities or Agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it. This information is not intended to be exhaustive and interested parties are required to make their own inquiries and do site visits that it may require in order to submit the EOI. The information is provided on the basis that it is non-binding on RailTel, any of its authorities or agencies or any of their respective officers, employees, agents or advisors. The RailTel reserves the right not to proceed with the bidding/EOI process at any stage without assigning any reasons thereof, or to alter the timetable reflected in this document or to change the process or procedure to be applied. It also reserves the right to decline to discuss the EOI further with any party submitting an EOI. No reimbursement of cost of any type will be paid to persons or entities submitting the EOI.

Tender Title	Design, manufacture, Supply, Installation, Testing & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver. 2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuja Road, Kuwanthal, Devgarh Madariya & Nathdwara Town stations along with Supply, installation, testing & Commissioning of various indoor & outdoor Signalling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdwara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya - Nathdwara section of Ajmer division of North Western Railway.
Tender No.	SnT-C-AII-24-02
Date of Tender upload	09.10.2024
Floated on portal	www.ireps.gov.in

Bidder is required to download and read complete RFP/ clarifications/ reply to pre-bid queries/ subsequent amendments/ subsequent corrigendum issued by the end customer till the last date of submission of response to this EOI. Submitting response/ bid to this EOI will be considered as that the bidder has submitted technical and financial bid considering all the entities mentioned above and agrees to all terms and conditions mentioned in end customer RFP and will not deviate from the quoted technical and financial solution.

TABLE OF CONTENTS

SR. NO.	DESCRIPTION
	EOI Notice, Schedule of Events and Notes
1.	About RailTel
2.	Background of EOI
3.	Scope of Work & Partner Selection
4.	Compliance Requirements and Eligibility Criteria for Interested Bidders
5.	Proposal Preparation and Submission Cost
6.	Amendment to EOI Document
7.	Bid Validity Period
8.	Right to Terminate the Process
9.	Language of Bid
10.	Submission of Bid
11.	Right to Accept / Reject any or all EOI Response
12.	Payment Terms
13.	Performance Bank Guarantee (PBG) and Security Deposit
14.	Details of Commercial Bid / Financial Bid
15.	Duration of the Contract Period and Completion Period

16.	Restriction of ‘Transfer of Agreement’
17.	Suspension, Revocation or Termination of Contract / Agreement
18.	Dispute Settlement
19.	Governing Laws
20.	Statutory Compliance
21.	Intellectual Property Rights
22.	Severability
23.	Force Majeure
24.	Indemnity
25.	Limitation of Liability towards RailTel
26.	Confidentiality cum Non-disclosure
27.	Assignment
28.	Insurance
29.	Exit Management
30.	Changes in Contract Agreement, Variation in Quantity & Shramik Kalyan Portal
31.	Liquidity –Damages
32.	Waiver
33.	Annexure – 01 (EOI COVER LETTER)
34.	Annexure – 02 (Local Content Compliance)
35.	Annexure – 03 (Checklist of Documents for Bid Submission)
36.	Annexure – 04 (Commercial Bid)

37.	Annexure – 05 (Proforma for Performance Bank Guarantee)
38.	Annexure – 06 (Non-Disclosure Undertaking)
39.	Annexure – 07 (Post-Bid Agreement)
41.	Annexure – 08 (Integrity Pact)
42.	Annexure- 09 EMD BANK GUARANTEE FORM (For Bid Security)
43.	Annexure- 10 Affidavit Format
44.	Annexure-11 Format for Quantity break-up for EI System
45.	Annexure-12 Tender Document of CoR

EOI NOTICE

RailTel Corporation of India Limited, Territory office, Jaipur.

EOI NO.: RCIL/NR/TM/JP/EOI/NWR/DY CSTE/Const/EI/AII-DIV/2024-25 DATED 10-02-2025

RailTel Corporation of India Ltd., (here after referred to as “RailTel”) invites EOIs from RailTel’s Empaneled Business Associate Partners for Selection of Post Implementation Partner from RailTel Empaneled Business Associate for exclusive Post-BID TEAMING ARRANGEMENT for “**Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhujia Road Kuwanthal, Durgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdwara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Durgarh Madariya - Nathdwara section of Ajmer division of North Western Railway”.**

The details are as under:

SCHEDULE OF EVENTS

1	Date of EOI Floating	10-Feb-2025
2	Last date for submission of Bids against EOI	28-Feb-2025 at 13:00 Hours
3	Opening of Bids received against EOI	28-Feb-2025 at 13:30 Hours
4	Number of copies to be submitted	Single Stage (Two Packet System)
5	EOI document cost inclusive tax (non-refundable)	Nil
6	EOI processing fee inclusive tax (non-refundable)	As per E nvida Portal
7	Estimated amount of EOI	Rs. 42,11,24,784.80/- (inclusive of GST)

8	EMD for Post-Bid Arrangement	Token EMD 500000/- (Five Lakh) will be submitted on line Balance EMD for an amount of Rs. 20,19,000/- (Rs. Twenty Lakh Nineteen Thousand Only) will be submitted before EOI closing Date & Time.
9	Bid Submission Mode	Online on https://railtel.enivida.com

- Note: RailTel reserves the right to change the above dates at its discretion.

- Online payment on E-Nivida Portal only.**

Final EMD (to be submitted by selected bidder):

- Rs. 25,19,000/- by last date of submission Bid.**
- Without Submission of Final EMD (Token + Balance EMD @25,19,000/-), Bidder will not be technically qualified.**
- NEFT/ RTGS:** Account Name: RailTel NR Collection Account Bank Name: Union Bank of India Branch Name: Connaught Place Delhi, Account Number: 307801010917906, IFSC Code: UBIN0530786, MICR Code: 110026006
- Demand Draft:** In favor of RailTel Corporation of India Limited payable at New Delhi.
- Bank Guarantee:** It may be noted that token EMD of Rs. 5,00,000/- is to be deposited online and balance EMD can be deposited in form of BG also. EMD can be paid in form of Bank Guarantee in format attached as per annexure-9 issued by any scheduled commercial bank/Nationalized Bank, valid for 60 days beyond bid validity period.

The EMD should be in the favor of RailTel Corporation of India Limited payable at Delhi through online bank transfer. Partner needs to share the online payment transfer details like UTR No. date and Bank along with the proposal.

RailTel Bank Details for Submission of EMD / PBG:

RailTel SFMS details –

BG advising message – IFN 760COV/ IFN 767COV via SFMS.

IFSC Code of ICICI Bank to be used (ICIC0000007). Unique reference (RAILTEL6103) in field 7037}.

Eligible Business Associates are required to direct all communications related to this Invitation for EoI document, through the following Nominated Point of Contact persons:

Contact Details for this EOI:

Level:1 Contact: Sh. S.S Jeph , JGM/Jaipur

Email: ssjeph@railtelindia.com Contact: +91-9001044112

Note:

1. The EOI response is invited from eligible Empaneled Partners of RailTel only.
2. All the document must be submitted with proper indexing and page no.
3. This is an exclusive Post-RFP partnership arrangement with empaneled business associate of RailTel for executing the end customer RFP.
4. Transfer and Sub-letting: The Business Associate has no right to give, bargain, sell, assign or sublet or otherwise dispose-off the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof. **(Subletting not allowed.)**
5. Bidder has to agree to comply with all OEM technical & financial documentation including MAF, Technical certificates/others as per end-to-end requirement mentioned in the end customer's RFP.
6. Bidder should supply materials as per the specifications and inspections clauses mentioned in the RFP of CoR.
7. The selected bidder will have to accept all Terms & Conditions of CoR RFP on back-to-back basis.
8. Any corrigendum(s) issued by CoR against pertinent tender/RFP shall be the part and scope of this EOI document on back-to-back basis.
9. No exemption/relaxation is applicable to MSME/Startups.
10. Only, the eligibility clause/criteria and marks scoring criteria for SI/BA (Prospective BA/SI) as mentioned in CoR's RFP is not applicable on the bidder/BA applying against this EOI. Rest all Terms & Conditions of RFP floated for pertinent tender will be complied by SI/BA/bidders.
11. However, OEM considered by SI for this project have to mandatorily comply all the eligibility & technical criteria/compliance on back-to-back basis in line with CoR RFP and corrigendum(s) issued thereof.
12. Please refer CoR RFP Payment terms as this will remain applicable on back-to-back basis on successful bidders.
13. Bidder may check the price/commercial bid as per BOQ and match the same with FORMATS FOR SUBMISSION OF THE COMMERCIAL BID of CoR's RFP and if found any discrepancy, may be brought in the notice of RailTel immediately and may modify their financial bid format as per CoR RFP financial bid document.
14. This is a customer centric bid on back-to-back basis. The benefits of MSME shall not be applicable on this EOI

& Work Order issued basis this EOI.

15. All terms and conditions including SLA/Payment/Penalties will be applicable back-to-back to the bidder.

16. No advance payment is applicable in the EOI and payment will be released on receipt from the COR.

17. Offline documents like POA, NDA, Integrity pact and affidavit must be reach to RailTel office before opening of bid.

1. About RailTel

RailTel Corporation of India Ltd (RailTel) is one of the largest neutral telecom infrastructure providers in the country owning a Pan-India optic fibre network on exclusive Right of Way (ROW) along Railway track. The OFC network presently reaches to over 4500 towns & cities of the country including several rural areas. With its Pan India high-capacity network, RailTel is working towards creating a knowledge society at various fronts. The portfolio of services provided by RailTel includes Data Centre & DR services, Tele-presence as a service, NLD services, IP-1 services, Internet and Broadband services on a pan-India basis.

Equipped with an ISO 9001, 20000-1:2011 & 27000 certification, RailTel offers a wide gamut of managed telecom services to Indian Telecom market including Managed lease lines, Tower colocation, MPLS based IP-VPN, Internet, Data Centre services, NGN based voice carriage services to Telecom Operators, Dark fibre leasing to MSOs/LCOs. The major customer segment for RailTel comprises of Enterprises, Banks, Government Institutions/Department, Educational Institutions/Universities, Telecom Service Providers, Internet Service Providers, MSOs, etc. RailTel being a “Mini Ratna (Category-I)” PSU is steaming ahead in the enterprise segment with the launch of various services coupled with capacity augmentation in its Core network.

2. Background of EOI

RailTel Corporation of India Ltd (hereafter referred to as ‘RailTel’) an ICT arm of Indian Railways has been in the forefront of building innovative platforms and solutions and vision to build range of Information and Communication Technology (ICT) Services for its customers.

In this regard, RailTel intends to provide best Techno-Commercial solution to Customer of RailTel (CoR) in NWR (hereafter referred as ‘CoR’) and accordingly seeks to select a suitable partner for post-bid arrangement.

RailTel intends to submit Techno-Commercial offer to Customer of RailTel (CoR) for **Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuja Road Kuwanthal, Devgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdwara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya - Nathdwara section of Ajmer division of North Western Railway”.**

RailTel invites EOIs from RailTel's Empaneled Partners for the selection of suitable partner for participating in above mentioned work for the agreed scope work. The empaneled partner is expected to have excellent execution capability and good understanding of customer local environment.

Bidder has to agree to comply with all OEM technical & financial documentation including MAF, Technical certificates/others as per end-to-end requirement mentioned in the EOI. Bidder also undertake to submit MAF of major items of the proposed solution and other documents required in the EOI in favor of RailTel against the proposed products. The selected BA has to provide MAF from the OEM in the name of RailTel for further submitting proposal to CoR, if their proposed solution is quoted to the customer.

The details of pertinent tender are as below:

RailTel invites EOIs from RailTel's Empaneled Partners for the selection of suitable partner to Provide best techno commercial solution to CoR for the complete scope of work as mentioned in the EOI. The empaneled partner is expected to have excellent execution capability and good understanding of customer local environment.

The make and model shall be clearly mentioned in the proposal.

3. Scope of Work & Partner Selection

Scope of Work

The scope of work will be as mentioned in CoR RFP, available on portal www.ireps.gov.in with Tender reference no. **SnT-C-AII-24-02,Dated 09/10/2024 (Enclosed)**

In addition of Scope of work of COR , CSP /Bidder will provide Project Manger , Technical Manpower for coordination of work at site , Project Vehicle (Taxi) for Coordination of project , Camp office at Site or as advise by RCIL , Statinory , Drawings as required.

Special Note: RailTel may or may not retain some portion of the work mentioned in the EOI.

Purpose of EOI

The intent of this EOI is to invite proposals from the prospective bidders for **Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuja Road Kuwanthal, Devgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdawara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work incudes Supply, Installation,Testing, and Commissioning of Telecom indoor and outdoor Equipments including**

Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya - Nathdwara section of Ajmer division of North Western Railway”..

- 3.1** The present proposal seeks the turnkey solution for carrying out CoR needs. It is proposed to provide and maintain services with allied items for the period maintenance at locations as mentioned in EOI. Being turnkey in nature, successful bidder once awarded with the order, has to successfully commission the solution with complete satisfaction of the customer and any item explicitly mentioned or not mentioned, has to be provisioned without any further escalation of the cost to customer of RailTel. An undertaking of end to end no escalation in financial and compliance of technical aspects related responsibility has to be given by successful bidder to RailTel. Any expense/cost escalation during commissioning and Warranty period if any required in turnkey solution commissioning will be the responsibility of the Successful bidder and same will be absorbed by successful bidder, in case customer may not pay for it to RailTel. If CoR may pay such charges then only successful teaming partner will be entitled for such amount. Any financial claim of BA partner in future for successful commissioning and during warrant period, may not be entertained without receipt of money by RailTel from customer in any circumstances.
- 3.2** Solution provider need to offer solution with no single point of failure in hardware/work and without any downtime in operations at customer premise of CoR. SLA shall be applicable on back to back basis as per the CoR's RFP.
- 3.3** Bidder may submit their response in form of duly signed and stamped and submit techno-commercial bid at the E-nivida portal through Online mode, within the stipulated date and time, as mentioned in this EOI document.
- 3.4 Interested partners may note that this is a Single stage Two Packet Bid.**
- 3.5** Only those bids shall be opened, which have been submitted within the stipulated time as mentioned in this EOI document.
- 3.6 Stage -I : Technical Bid contains following :-**

S.No.	Type	Eligibility Criteria	Documents Required
1	Existence/ Origin	The company/Proprietor firm must be registered in India.	Certificate of Incorporation
2	General	The company must have: I. Valid PAN card. II. GST Registration.	I. Copy of PAN Card. II. Copy of GST registration certificate.
3	Financial Criteria	The bidder must have minimum cumulative turnover of 150% in the previous three financial years and current financial year up to the date of inviting of EOI for the estimated amount of EOI.	Audited Financial Statements , Balance Sheet and CA certificate
4	Net Worth	The bidder should have positive net worth of 03 (Three) Financial Year.	Audited Balance Sheet and CA certificate
5	Technical Experience	The bidder must have successfully completed any of the following during last 03 (Three) years, ending last day of month previous to	Copy of Purchase/ Work Order and completion/ satisfactory performance certificate issued by client.

S.No.	Type	Eligibility Criteria	Documents Required
		<p>the one in which EOI is invited, as</p> <ol style="list-style-type: none"> 1. One similar work of 35% of estimated amount of EOI. <p>OR</p> <ol style="list-style-type: none"> 2. Two similar works each of 20% each of estimated amount of EOI. <p>OR</p> <ol style="list-style-type: none"> 3. Three similar works each of 15% of estimated amount of EOI. <p>Definition of similar work: Similar work means “Any Railway Signalling work”</p>	Work experience certificate issued by Govt. Organization or SEBI registered Company with minimum average annual turnover of Rs.500Cr shall only be considered.
6	Empanelment	All Business Associate empaneled with RailTel.	Copy of Empanelment letter and Empanelment PBG submitted, if any.
7	POA	The bid should be duly signed and submitted by Authorized Signatory. The bidder has to submit notarized of non-judicial stamp paper of appropriate value Power of Attorney having authorized signatory's nomination along with board resolution in favour of power of attorney	Bidder has to submit the Power of Attorney of the authorized signatory
8	Annexure - 01	EOI COVER LETTER	
9	Annexure - 02	Local Content Compliance	Bidder has to submit the local content % for the proposed solution
10	Annexure – 03	CHECKLIST OF DOCUMENTS FOR BID SUBMISSION	Bidder has to provide the filled list of checklists.
11	Annexure – 04	Commercial Bid	Bid sheet (without price) to be provided by Bidder in Technical Offer.
12	Annexure - 05	PROFORMA FOR PERFORMANCE BANK GUARANTEE	Proforma shall be used by the L1 bidder
13	Annexure-06	Non-Disclosure Agreement	Bidder has to submit the signed copy of NDA along with bid
14	Annexure 07	Post-Bid Agreement	Bidder has to submit the acceptance of the Post-bid agreement however the final signing will be done with L1 bidder on mutual discussion.
15	Annexure 08	Integrity pact	Bidder has to submit the signed copy of integrity pact along with bid.
16	Annexure 09	EMD BANK GUARANTEE FORMAT	Bidder has to submit the EMD Payment in the format attached, if desire to submit in the form of BG.
17	Annexure 10	AFFIDAVIT form on Non-Judicial Stamp Paper of Rs. 500/- Non-Submission of Affidavit will lead to summarily rejection of the bid.	Bidder has to submit notarized affidavit as per the format enclosed along with the bid.
18	Annexure 11	Format for Quantity break-up for EI System	Annexure (without price) to be submitted by Bidder in Technical Offer.
19	EMD payment	EMD payment	Bidder has to submit the proof of EMD Payment

20	Land border sharing	Compliance to insertion of Rule 144(xi) in the GFR, 2017 vide office OM no. 6/18/2019-PPD dated 23-July-2020 issued by Ministry of Finance, Government of India, including Revisions	Bidder has to submit undertaking in Organization letter head.
21	Non - Black Listing	Bidder should not be backlisted by any State / Central Government Ministry / Department / Corporation / Autonomous Body on the last date of submission of EOI	Bidder has to submit an undertaking on letterhead duly signed and stamped by authorized signatory for non-black listing.
22	No - arbitration with RailTel	There should not be any ongoing or past, arbitration case(s) between 'RailTel' and 'Interested Bidder' on the last date of submission of EOI	Bidder has to submit an undertaking on letterhead duly signed and stamped by authorized signatory for no ongoing or past, arbitration case(s) between RailTel and bidder
23	Special Technical Compliance	The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirements.	Bidder has to submit an undertaking on letterhead duly signed and stamped by authorized signatory, that upon RailTel being awarded work in CoR Tender, Bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirements.

3.7 Based on evaluation of outcome against 3.6, whoever may qualify as per 3.10 and further complying technical requirement with supporting documents of datasheets, BOQ/BOM may be treated as technically qualified partner for Stage-1. Bidders selected above will be treated as eligible for financial bid opening.

3.8 Stage-II: Financial Bid:

- **Annexure 4 of EOI is for financial quote.**
- **Annexure-11 is to be submitted by Bidder with price quote.**

If any Description found in SOR Item then SOR mentioned in COR Tender No. SnT-C-AII-24-02 Dated 09/10/2024 shall be final. Please go through SOR of Tender No. SnT-C-AII-24-02 Dated 09/10/2024.

3.9 For the opened bid as per outcome of Clause 3.12 above, the bidder will be selected on the lowest quote (L-1) basis. The so selected partners will be termed as 'Commercially Suitable Partner (hereafter referred to as 'CSP')'.

Further, RailTel reserves the right to have negotiation with the CSP. In case Customer of RailTel may go for further negotiation, same is applicable on back-to-back basis with Business Associate with due diligence by committee members.

3.10 As of now, EoI response from interested partners is invited considering that the selected partner will be responsible for delivering of 'Scope of Work' as mentioned in the EOI document, CoR tender Tender No. SnT-C-AII-24-02 Dated 09/10/2024 and subsequent corrigendum if any. However, RailTel at its discretion, may take- up a certain portion / percentage of 'Scope of Work' by communicating to the CSP at any point of time during the engagement period. (The day at which 'CSP' is declared, will mark the start of engagement period. The period will be valid till final outcome of this proposal is announced by CoR. In case, RailTel comes out to be winner of the CoR tender/nomination/proposal, then the engagement period will get auto-extended to the period RailTel serves CoR for the concerned tender, unless terminated earlier by RailTel as per terms and conditions mentioned in this EoI document). In this scenario, commercial engagement with the CSP will be for that portion / percentage only, which has not been taken by RailTel. Accordingly, resultant value of work will be derived on the basis of negotiated (in case) commercial bid of the CSP.

3.11 RailTel on the basis of inputs / factors available to it from various resources, past experiences of its ICT projects and on the basis of negotiated (in case) commercial bid of the CSP, will endeavor to provide best techno-commercial solution in response to the pertinent CoR's requirement. Further relationship with CSP will be based on the outcome of pertinent CoR's requirement.

3.12 If CoR may desire to take AMC after warranty period or else any other requirement in same PO to RailTel, then RailTel may or may not take same from successful partner of this EOI subject to committee members recommendations. Commercial of same are subject to negotiation and rate reasonability. Rates reasonableness will be based on OEM certifications.

3.13 Project vehicle should be 7 seater Taxi vehicle i.e. Bolero/Scorpio/Safari or similar vehicle with Driver,.It should not be old then three years.

4. Compliance Requirements and Eligibility Criteria for Interested Bidders

4.1. The interested bidder should be an Empaneled Partner with RailTel on the last date of bid submission of EOI & has to provide relevant documents to qualify as per Clause 3.10.i of this EOI.

4.2. The interested bidder should submit Earnest Money Deposit (EMD) if applicable, in the format as mentioned in this EOI document along with the bid.

4.3. The interested bidder should be in compliance to insertion of Rule 144(xi) in the GFR, 2017 vide office OM no. 6/18/2019-PPD dated 23-July-2020 issued by Ministry of Finance, Government of India, including revisions.

4.4. The interested bidder should submit an undertaking for maintaining of 'Local Content Compliance' and shall submit a certificate mentioning the 'Local Content Percentage' duly signed and stamped by statutory auditor or cost auditor or authorized signatory of the interested partner. This will not be a binding clause in cases where endcustomer has not asked Local Content Clause/Make in India Clause in their Current RFP or proposal to be submitted to customer as an outcome of this eoi.

4.5 The bidder has to mandatorily provide all Annexures of EOI and corrigendum(s) thereof, in the name of RailTel Corporation of India Limited addressing the tender issuing authority.

4.6. The interested bidder should not be backlisted by any State / Central Government Ministry / Department / Corporation / Autonomous Body on the last date of submission of EOI.

4.7. There should not be any ongoing or past, arbitration case(s) between 'RailTel or Organizations under Indian Railways' and 'Interested Bidder' on the last date of submission of EOI.

4.8. The interested bidder shall not have a conflict of interest with one or more bidding parties. Participation of interested bidder(s) with a conflict-of-interest situation will result in the disqualification of all bids in which it is involved. A bidder may be in a conflict of interest with one or more parties if including but not limited to:

a. Have controlling shareholders as his/her family members viz. spouse, son, daughter, father, mother or brother etc. in common or;

b. Have a relationship with each other directly or through common third parties that puts them in a position to have access to information about or influence on the bid of another interested partner.

4.9. The interested bidder should not be seeking / extending / exploring similar arrangements / engagements with any other organization except RailTel, for the CoR requirement.

4.10. The interested partner should have a valid Goods and Service Tax Identification Number (GSTIN), as on the last date of submission of EOI.

4.11. RailTel is not getting MSME/SME/Start up benefit from end customer and hence no such benefit passed to BA in any circumstances at any point of time.

4.12. In addition to above clauses, bid of interested bidder should be in compliance to terms and conditions and technical requirements of the pertinent CoR tender as referred above.

Note: The interested bidder should submit duly signed and stamped EOI cover letter as per the format mentioned at Annexure-01 of this EOI document, as unconditional submission of meeting the clauses mentioned above, from **Clause 4.1. to Clause 4.11.**

5. Proposal Preparation and Submission Cost

5.1. The interested partner is responsible for all costs incurred in connection with participation in this EOI process, including, but not limited to, cost incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by RailTel to facilitate the evaluation process or all such activities related to the bid process. RailTel will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. This EOI document does not commit to award a contract or to engage in negotiations.

6. Amendment to EOI Document

6.1. At any time prior to the deadline for submission of bids, RailTel, may, for any reason can modify the EOI

document by an amendment. All the amendments made in the document would be informed by displaying on RailTel's (www.railtelindia.com) & railtel.enivda.com) website only. The interested bidders are advised to visit the RailTel website on regular basis for checking necessary updates. RailTel also reserves the rights to amend the dates mentioned in this EOI. RailTel may, at its discretion, extend the last date for receipt of EOI response.

7. Bid Validity Period

7.1. Bid of Interested partners shall remain valid for the period of 120 days from the last date of submission of EOI, as mentioned in this EOI document.

7.2. RailTel may request for an extension of the period of validity. The validity of the 'EMD', should also be suitably extended if called upon to do so by RailTel. The request and the responses thereto shall be made in writing through e-mail communication only. Further, whenever the bid validity extension is submitted by the interested partner, it should be ensured by interested partner that their PBG related to the empanelment should have minimum validity of **90 working days** from the last date of extended bid validity period.

8. Right to Terminate the Process

8.1. RailTel may terminate the EOI process at any time without assigning any reason. RailTel makes no commitments, express or implied, that this process will result in a business transaction with anyone. This EOI does not constitute an offer by RailTel. The interested bidder's participation in this process may result in RailTel selecting the CSP to engage in further discussions and negotiations toward execution of a contract. The commencement of such negotiations does not, however, signify a commitment by RailTel to execute a contract or to continue negotiations. RailTel may terminate negotiations at any time without assigning any reason.

9. Language of Bid

9.1. The bid prepared by the interested partner and all correspondence and documents relating to the bids exchanged by the bidder and RailTel, shall be written in English Language, provided that any printed literature furnished by the Bidder in another language shall be accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Authorised Signatory of the interested partner.

10. Submission of Bid

10.1. The interested bidder should take into account any Corrigendum to this EOI document that may have been published before submitting their EOI response. The bid is to be submitted in the mode as mentioned in this EOI

document. EOI response submitted in any other mode will not be entertained.

10.2. Interested bidders in their own interest are advised to submit the EOI response well in time before the last date and hence to avoid any inconvenience at the last moment.

10.3. An Organization / Interested Bidder can submit only 'One EOI Response'. Submission of multiple EOI Response by interested bidder(s) may lead to rejection of all of its bid.

11. Rights to Accept / Reject any or all EOI Response

11.1. RailTel reserves the right to accept or reject any EOI Response, and to annul the bidding process and reject all Bids at any time prior to award of the Contract, without thereby incurring any liability to the affected interested bidder(s), or any obligation to inform the affected Bidders of the ground for RailTel's action.

12. Payment Terms

12.1. Payment will be on '**back-to-back**' basis and as per the payment terms mentioned in the Scope of Work (Annexure-12). No advance will be payable to BA, if any advance received by RailTel from customer.

12.2. Payment will be released after receiving the invoice for the work / services and after RailTel has received the payment from CoR (Customer of RailTel i.e. Dy.CSTE-C/AII-S&T NWR) for the same work / services. Any deduction / Penalties levied by CoR on invoices of RailTel will be carried **back-to-back** and will be deducted from CSP's invoices on actual basis.

12.3. Releasing payment from Customer i.e NWR is responsibility of Bidder.

12.4. Measurement of work from Customer i.e NWR is responsibility of Bidder.

12.5. Documents list required at the time of payment/invoice submission by selected bidder shall be: -

- i PO copy issued to selected vendor.
- ii Payment Proof that the end customer has paid to RailTel for the period claimed by selected bidder/vendor against invoices raised by RailTel for such services.
- iii Submission/Declaration of applicable BG amount against PO issued to selected bidder/vendor.
- iv Original Invoice for the period claimed.
- v TDS declaration.
- vi GST submission by Bidder to RailTel.
- vii Photocopy of all documents submitted by RailTel along with their invoice to customer.
- viii Any other documents asked by COR of RailTel

13. Performance Bank Guarantee (PBG) and Security Deposit

13.1. The CSP shall at its own expense, deposit with department, within fifteen (15) working days

of the notification of award (done through issuance of the Purchase Order / Work Order etc.) and communicated through email, an unconditional and irrevocable Performance Bank Guarantee (PBG) from a a Nationalized/ Commercial Scheduled Indian Bank as per the format enclosed in this EOI, payable on demand, for the due performance and fulfilment of the contract by the CSP. This PBG will be for an amount of ‘5 (%)’ of the contract value. The quantum of this ‘percentage (%)’ will be equal to the PBG % as asked by CoR from RailTel. All charges whatsoever such as premium, commission, etc. with respect to the PBG shall be borne by the CSP. Besides, if the total BG amount comes upto ₹05 Lakhs, then same may be deposited through DD/RTGS/NEFT. Along with submission of PBG, CSP needs to submit PBG issuing bank’s SFMS report. The SFMS report is also to be submitted in case of renewal / extension of PBG. However, a penal interest of 12% per annum shall be charged for the delay beyond 21 (Twenty-one) days, i.e., from 22nd day after the date of issue of LOA. If the CSP fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated.

13.2. The PBG should have validity for a period of 3 months beyond the contract period including installation timeline. The PBG may be discharged / returned by RailTel upon being satisfied that there has been due performance of the obligations of the CSP under the contract. However, no interest shall be payable on the PBG. In the event, CSP being unable to service the contract for whatsoever reason, RailTel would invoke the PBG at its discern. Notwithstanding and without prejudice to any rights whatsoever of RailTel under the contract in the matter, the proceeds of the PBG shall be payable to RailTel as compensation for any loss resulting from the CSP’s failure to complete its obligations under the contract. RailTel shall notify the CSP in writing of the exercise of its right to receive such compensation within 14 days, indicating the contractual obligation(s) for which the CSP is in default.

13.3. RailTel shall also be entitled to make recoveries from the CSP’s bills, PBG or from any other amount due to him, the equivalent value of any payment made to him due to inadvertence, error, collusion, misconstruction or misstatement.

13.4. If the service period gets extended by virtue of extension of same by CoR, PBG should also be extended accordingly.

13.5. During the contract period, RailTel may issue Purchase Order(s) for the additional services ordered by CoR (in case) to RailTel. In such scenario(s) also, Clause No. 13.1. to Clause No. 13.4. are to be followed by the CSP.

13.6 In case the CoR has sought PBG of the contract in the terms of Indemnity Bond from RailTel, the selected bidder has to provide the equivalent value PBG from scheduled Bank to RailTel. No Indemnity Bond from Selected Bidder will be accepted in lieu of PBG from Scheduled Bank.

13.7. In case CoR has sought any other types of PBG in this contract at present or in future or else Integrity Pact PBG (presently or in future), same remain applicable on selected Bidder. The Said PBG will be issued by Selected Bidder from Scheduled Bank favoring RailTel Corporation of India Limited. No Indemnity Bond in lieu of such PBG will be accepted by RailTel.

13.8 If CoR ask for submission of PBG for value more than 5%, same also needs to be submitted by the selected BA.

13.9 Security Deposit (SD): The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the CSP with his tender will be retained/encashed by the RailTel as part of security for the due and faithful fulfillment of the contract by the CSP. In case of non-submission of Security Deposit by CSP, RailTel shall recover the same from the running bills @ 10% till recovery of SD.

SD amount can be changes as per terms & condition of COR .

13.10 PBG/SD Validity : PBG /SD Validity is as per Customer RFP

14. Details of Commercial Bid / Financial Bid

14.1. Interested partner should submit commercial bid strictly as per the format mentioned by CoR in the pertinent tender document or subsequent corrigendum (if any).

14.2. The commercial bid should only be quoted **as (%) Above/Below** the schedule of rates both in figures as well as in words. If there is discrepancy in quoted rates in figure and words, then value quoted in words shall be considered. The quoted rates should include all taxes direct or indirect Including Income Tax leviable under Central/State or Local Bodies Act or Rules, Octroies, Tolls, Royalties, Seigniorages, Cess and similar imposts that may be prevailing from time to time in respect of land, structures and all materials supplied in the Performance of this Contract.

14.3. The rates mentioned in the commercial bid of the CSP will form basis of commercial transaction between RailTel and bidder.

14.4. The quantity of 'Line Items' may vary at the time of placing of Purchase Order orduring the Contract Period, as communicated by CoR (in case) to RailTel. In such scenarios, the 'Per Unit' cost will be considered to arrive on contractual amount between RailTel and CSP.

14.5. It is also possible that CoR may surrender / increase, some or all of the quantitiesof service items ordered to RailTel during the contract period and accordingly the contractual amount between RailTel and CSP shall be considered, at sole discern of RailTel.

14.6. It is also possible that during the contract period, CoR may raise Purchase Orderto RailTel for the line items (and respective quantities) which are not mentioned in the pertinent tender of CoR. In such scenario, RailTel at its sole discretion, may extend the scopeof the contract with CSP by placing order to CoR, **on back-to-back basis**.

14.7. In addition to the Payment Terms, all other Contractual Terms will also be on '**back-to-back**' basis between RailTel and CSP, as mentioned in the pertinent CoR's tender. MAF (Manufacturer's Authorization Form) in the name of RailTel from the OEMs, whose product is mentioned in commercial bid format, should also be ensured by the partner. The MAF format and required content should be in-line with CoR's tender, if specifically asked by CoR in a particular format.

15. Duration of the Contract Period and Completion Period

The Contract duration shall be same as of CoR's contract duration with RailTel until otherwise terminated earlier. **Indicative Completion period for the project is 16 months with Maintenance period of One year, As per CoR's tender or As per Customer Agreement i.e. NWR with RailTel.** The contract duration can be renewed /extended by RailTel at its discern, in case CoR extends / renews services with RailTel by virtue of extending / renewing / new issuance of one or more Purchase Order(s) placed by CoR to RailTel.

16. Restrictions on 'Transfer of Agreement'

16.1. The CSP shall not assign or transfer its right in any manner whatsoever under the contract / agreement to a third party or enter into any agreement for sub-contracting and/or partnership relating to any subject matter of the contract / agreement to any third party either in whole or in any part i.e., no sub-contracting / partnership / third party interest shall be created.

17. Suspension, Revocation or Termination of Contract / Agreement

17.1. RailTel reserves the right to suspend the operation of the contract / agreement, at any time, due to change in its own license conditions or upon directions from the competent government authorities, in such a situation, RailTel shall not be responsible for any damage or loss caused or arisen out of aforesaid action. Further, the suspension of the contract / agreement will not be a cause or ground for extension of the period of the contract / agreement and suspension period will be taken as period spent. During this period, no charges for the use of the facility of the CSP shall be payable by RailTel.

17.2. RailTel may, without prejudice to any other remedy available for the breach of any conditions of agreements, by a written notice of one (01) month or as per CoR tender condition whichever is earlier issued to the CSP, terminate/or suspend the contract /agreement under any of the following circumstances:

- a) The CSP failing to perform any obligation(s) under the contract / agreement.
- b) The CSP failing to rectify, within the time prescribed, any defect as may be pointed out by RailTel.
- c) Non adherence to Service Level Agreements (SLA) which RailTel has committed to CoR for the pertinent tender.
- d) The CSP going into liquidation or ordered to be wound up by competent authority.
- e) If the CSP is wound up or goes into liquidation, it shall immediately (and not more than a week) inform about occurrence of such event to RailTel in writing. In that case, the written notice can be modified by RailTel as deemed fit under the circumstances. RailTel may either decide to issue a termination notice or to continue the agreement by suitably modifying the conditions, as deemed fit under the circumstances.
- f) It shall be the responsibility of the CSP to maintain the agreed Quality of Service, even during the period when the notice for surrender/termination of contract / agreement is pending and if the Quality of

Performance of Solution is not maintained, during the said notice period, it shall be treated as material breach liable for termination at risk and consequent of which CSP's PBG related to contract / agreement along with PBG related to the Empanelment Agreement with RailTel shall be forfeited, without any further notice.

- g) Breach of non-fulfillment of contract / agreement conditions may come to the notice of RailTel through complaints or as a result of the regular monitoring. Wherever considered appropriate RailTel may conduct an inquiry either Suo- moto or on complaint to determine whether there has been any breach in compliance of the terms and conditions of the agreement by the successful bidder or not. The CSP shall extend all reasonable facilities and shall endeavor to remove the hindrance of every type upon such inquiry. In case of default by the CSP in successful implementation and thereafter maintenance of services / works as per the conditions mentioned in this EOI document, the PBG(s) of CSP available with RailTel can be forfeited.
- h) Project progress is poor as per COR & Progress in not improve up to the mark of COR/Project time line given to CSP.

17.3 This termination of the contract shall be at the risk and responsibility of the BA /Bidder and RCIL reserves the right to purchase/execute the balance unsupplied quantity/ service /work at the risk and cost of the defaulting Bidder/BA besides considering the forfeiture of his performance security.

18 Dispute Settlement

18.1. In case of any dispute concerning the contract / agreement, both the CSP and RailTel shall try to settle the same amicably through mutual discussion / negotiations. Any unsettled dispute shall be settled in terms of Indian Act of Arbitration and Conciliation 1996 or any amendment thereof. Place of Arbitration shall be New Delhi.

18.2. The arbitral tribunal shall consist of the Sole Arbitrator. The arbitrator shall be appointed by the Chairman & Managing Director (CMD) of RailTel Corporation of India Ltd.

18.3. All arbitration proceedings shall be conducted in English.

19 Governing Laws

19.1. The contract shall be interpreted in accordance with the laws of India. The courts at New Delhi shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

20 Statutory Compliance

20.1. During the tenure of this Contract nothing shall be done by CSP in contravention of any law, act and/ or rules/regulations, there under or any amendment thereof and shall keep RailTel indemnified in this regard.

20.2. The Bidder shall comply and ensure strict compliance by his/her employees and agents of all applicable Central, State, Municipal and Local laws and Regulations and undertake to indemnify RailTel, from and against all levies, damages, penalties and payments whatsoever as may be imposed by reason of any breach or violation of any law, rule, including but not limited to the claims against RailTel or its Customer under Employees Compensation Act, 1923, The Employees Provident Fund and Miscellaneous Provisions Act, 1952, The Contract Labour (Abolition and Regulation)

Act 1970, Factories Act, 1948, Minimum Wages Act and Regulations, Shop and Establishment Act and Labour Laws which would be amended/modified or any new act if it comes in force whatsoever, and all actions claim and demand arising therefrom and/or related thereto.

21 Intellectual Property Rights

21.1. Each party i.e., RailTel and CSP, acknowledges and agree that the other party retains exclusive ownership and rights in its trade secrets, inventions, copyrights, and other intellectual property and any hardware provided by such party in relation to this contract / agreement.

21.2. Neither party shall remove or misuse or modify any copyright, trade mark or any other proprietary right of the other party which is known by virtue of this EoI and subsequent contract in any circumstances.

22 Severability

22.1. In the event any provision of this EOI and subsequent contract with CSP is held invalid or not enforceable by a court of competent jurisdiction, such provision shall be considered separately and such determination shall not invalidate the other provisions of the contract and Annexure/s which will be in full force and effect.

23 Force Majeure

23.1. If during the contract period, the performance in whole or in part, by other party, of any obligation under this is prevented or delayed by reason beyond the control of the parties including war, hostility, acts of the public enemy, civic commotion, sabotage, Act of State or direction from Statutory Authority, explosion, epidemic, quarantine restriction, strikes and lockouts (as are not limited to the establishments and facilities of the parties), fire, floods, earthquakes, natural calamities or any act of GOD (hereinafter referred to as EVENT), provided notice of happenings of any such event is given by the affected party to the other, within twenty one (21) days from the date of occurrence thereof, neither party shall have any such claims for damages against the other, in respect of such non-performance or delay in performance. Provided service under this contract shall be resumed as soon as practicable, after such EVENT comes to an end or ceases to exist.

23.2. In the event of a Force Majeure, the affected party will be excused from performance during the existence of the force Majeure. When a Force Majeure occurs, the affected party after notifying the other party will attempt to mitigate the effect of the Force Majeure as much as possible. If such delaying cause shall continue for more than sixty (60) days from the date of the notice stated above, the party injured by the inability of the other to perform shall have the right, upon written notice of thirty (30) days to the other party, to terminate this contract. Neither party shall be liable for any breach, claims, and damages against the other, in respect of non-performance or delay in performance as a result of Force Majeure leading to such termination.

24 Indemnity

24.1. The CSP agrees to indemnify and hold harmless RailTel, its officers, employees and agents (each an "Indemnified Party") promptly upon demand at any time and from time to time, from and against any and all losses, claims, damages, liabilities, costs (including reasonable attorney's fees and disbursements) and expenses (collectively, "Losses") to which the Indemnified party may become subject, in so far as such losses directly arise out of, in any way relate to, or result from:

a) Any mis-statement or any breach of any representation or warranty made by CSP or

- b) The failure by the CSP to fulfill any covenant or condition contained in this contract by any employee or agent of the Bidder. Against all losses or damages arising from claims by third Parties that any Deliverables (or the access, use or other rights thereto), created by CSP pursuant to this contract, or any equipment, software, information, methods of operation or other intellectual property created by CSP pursuant to this contract, or the SLAs (i) infringes a copyright, trade mark, trade design enforceable in India, (ii) infringes a patent issues in India, or (iii) constitutes misappropriation or unlawful disclosure or use of another Party's trade secrets under the laws of India (collectively, "Infringement Claims"); or
- c) Any compensation / claim or proceeding by any third party against RailTel arising out of any act, deed or omission by the CSP or
- d) Claim filed by a workman or employee engaged by the CSP for carrying out work related to this agreement. For the avoidance of doubt, indemnification of Losses pursuant to this section shall be made in an amount or amounts sufficient to restore each of the Indemnified Party to the financial position it would have been in had the losses not occurred.

24.2. Any payment made under this contract to an indemnity or claim for breach of any provision of this contract shall include applicable taxes.

25 Limitation of Liability towards RailTel

25.1. The CSP liability under the contract shall be determined as per the Law in force for the time being. The CSP shall be liable to RailTel for loss or damage occurred or caused or likely to occur on account of any act of omission on the part of the CSP and its employees (direct or indirect), including loss caused to RailTel on account of defect in goods or deficiency in services on the part of CSP or his agents or any person / persons claiming through under said CSP, However, such liability of the CSP shall not exceed the total value of the contract.

25.2. This limit shall not apply to damages for bodily injury (including death) and damage to real estate property and tangible personal property for which the CSP is legally liable.

26 Confidentiality cum Non-disclosure

26.1. The Receiving Party agrees that it will not disclose to third party/parties any information belonging to the Disclosing Party which is provided to it by the Disclosing Party before, during and after the execution of this contract. All such information belonging to the Disclosing Party and provided to the Receiving Party shall be considered Confidential Information. Confidential Information includes prices, quotations, negotiated issues made before the execution of the contract, design and other related information. All information provided by Disclosing Party to the Receiving Party shall be considered confidential even if it is not conspicuously marked as confidential.

26.2. Notwithstanding the foregoing, neither Party shall have any obligations regarding non-use or non-disclosure of any confidential information which:

- a) Is already known to the receiving Party at the time of disclosure:
- b) Is or becomes part of the public domain without violation of the terms hereof;
- c) Is shown by conclusive documentary evidence to have been developed independently by the Receiving Party without violation of the terms hereof:
- d) Is received from a third party without similar restrictions and without violation of this or a similar contract.

26.3. The terms and conditions of this contract, and all annexes, attachments and amendments hereto and thereto shall be considered Confidential Information. No news release, public announcement, advertisement or publicity concerning this contract and/or its contents herein shall be made by either Party without the prior written approval of the other Party unless such disclosure or public announcement is required by applicable law's

26.4. Notwithstanding the above, information may be transmitted to governmental, judicial, regulatory authorities, if so, required by law. In such an event, the Disclosing Party shall inform the other party about the same within 30 (thirty) Days of such disclosure.

26.5. This Confidentiality and Non- Disclosure clause shall survive even after the expiry or termination of this contract.

27 Assignment

27.1. Neither this contract nor any of the rights, interests or obligations under this contract shall be assigned, in whole or in part, by operation of law or otherwise by any of the Parties without the prior written consent of each of the other Parties. Any purported assignment without such consent shall be void. Subject to the preceding sentences, this contract will be binding upon, inure to the benefit of, and be enforceable by, the Parties and their respective successors and assigns.

28 Insurance

The CSP agrees to take insurances to cover all the elements of the project under this EOI including but not limited to Manpower, Hardware, Software etc. as per CoR tender specified terms. Project insurance covering all aspects of the project needs to be taken by the CSP.

29 Exit Management

29.1. Exit Management Purpose

- a) This clause sets out the provision, which will apply during Exit Management period. The parties shall ensure that their respective associated entities carry out their respective obligation set out in this Exit Management Clause.
- b) The exit management period starts, in case of expiry of contract, at least 03 months prior to the date when the contract comes to an end or in case of termination contract, on the date when the notice of termination is sent to the CSP. The exit management period ends on the date agreed upon by RailTel or Three (03) months after the beginning of the exit management period, whichever is earlier.

29.2. Confidential Information, Security and Data: CSP will promptly, on the commencement of the exit management period, supply to RailTel or its nominated agencies the following (if asked by RailTel in writing):

- a) Information relating to the current services rendered and performance data relating to the performance of the services; documentation relating to the project, project's customized source code (if any); any other data and confidential information created as part of or is related to this contract;
- b) All other information (including but not limited to documents, records and agreements) relating to the services reasonably necessary to enable RailTel and its nominated agencies, or its replacing vendor to carry out due diligence in order to transition the provision of the services to RailTel or its nominated agencies, or its replacing vendor (as the case may be).

29.3. Employees : Promptly on reasonable request at any time during the exit management period, the CSP shall, subject to applicable laws, restraints and regulations (including in particular those relating to privacy) provide RailTel a list of all employees (with job titles and communication address), dedicated to providing the services at the commencement of the exit management period; To the extent that any Transfer Regulation does not apply to any employee of the CSP, RailTel or the replacing vendor may make an offer of contract for services to such employees of the CSP and the CSP shall not enforce or impose any contractual provision that would prevent any such employee from being hired by RailTel or any replacing vendor.

29.4. Rights of Access to Information: Besides during the contract period, during the exit management period also, if asked by RailTel in writing, the CSP shall be obliged to provide an access of information to RailTel and / or any Replacing Vendor in order to make an inventory of the Assets (including hardware / software / active / passive), documentations, manuals, catalogues, archive data, Live data, policy documents or any other related material.

Note: RailTel at its sole discern may not enforce any or all clauses / sub-clauses under the 'Exit Management' clause due to administrative convenience or any other reasons as deemed fit.

30 Changes in Contract Agreement, Variation in Quantity and Shramik Kalyan Portal

30.1. No modification of the terms and conditions of the Contract Agreement shall be made except by written amendments signed by the both CSP and RailTel.

30.2. **Variation in Quantity:** Variation shall be applicable as per the requirement of Customer of RailTel

30.3. **Updation of Labour data on Railway's Shramik kalyan Portal-** All terms & conditions are applicable same as per CoR tender.

30.4. All terms and conditions shall be applicable on back to back basis as per the final acceptance/negotiation with the customer of RailTel.

31 Liquidated Damage (LD):

Liquidation Damages (LD) shall be governed by the end customer RFP / tender terms and shall be applicable on bidder as per actual on back-to-back basis. Any deduction in payment on grounds of LD shall be carried to bidder as per figures actually charged by end customer on back-to-back basis..

32 Waiver

Except as otherwise specifically provided in the contract, no failure to exercise or delay in exercising, any right, power or privilege set forth in the contract will operate as a waiver of any right, power or privilege.

EOI COVER LETTER (On Organization Letter Head)

EoI Ref No.:

Date:

To,
Joint General Manager,
RailTel Corporation of India Limited.
Jaipur, Rajasthan

Dear Sir/Madam,

1. I, the undersigned, on behalf of M/s, having carefully examined the referred EOI offer to participate in the same, in full conformity with the said EOI and all the terms and conditions thereof including corrigendum issued till last date of submission of EOI. It is also undertaken and submitted that we are in abidance of Clause 4 (from Clause 4.1 to Clause 4.11) of EOI.
2. I agree to abide by this Proposal, consisting of this letter, our Pre-qualification, Technical and Commercial Proposals, for a period of 180 days from the date fixed for submission of Proposals as stipulated in the EOI and modifications resulting from contract negotiations, and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.
3. I acknowledge that the Authority will be relying on the information provided in the Proposal and the documents accompanying the Proposal for selection of the Commercially Suitable Partner (CSP) for the aforesaid Service, and we certify that all information provided therein is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying the Proposal are true copies of their respective originals.
4. I undertake, if our Bid is accepted, to commence our services as per scope of work as specified in the contract document.
5. Until a formal Purchase Order or Contract is prepared and executed, this Bid and supplement / additional documents submitted (if any), together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.
6. I hereby undertake and give unconditional acceptance for compliance of all terms & conditions against this EOI based on customer's requirement. I understand that all clauses of customer RFP are applicable on back-to-back basis and SLA/Penalty/LD deducted by customer will be applicable on our payments on back-to-back basis.
7. I hereby undertake that there will be no deviation from the Terms and Conditions of EOI.

Signature of Authorized Signatory

Name
Designation

Local Content Compliance
(On Organization Letter Head)

EoI Ref No.:

Date:

To,
Joint General Manager ,
RailTel Corporation of India Limited.
Jaipur, Rajasthan

Dear Sir/Ma'am,

I, the undersigned, on behalf of M/s....., hereby submits that our technical solution for the 'Scope of Work' mentioned under the EoI document is in compliance of local content requirement and makes us equivalent to 'Class-I local supplier' / 'Class-II local supplier' (mention whichever is applicable) for the EoI under reference, as defined under the order No. P-45021/2/2017-PP(BE-II) dt. 04-June-2020 issued by Ministry of Commerce and Industry, Govt. of India.

I hereby certify that M/s fulfills all requirements in this regard and is eligible to be considered and for the submitted bid Local Content Percentage is % (write in figures as well as in words).

I hereby acknowledge that in the event of acceptance of bid of M/s on above certificate and if the certificate is found to be false at any stage, the false certificate would be a ground for immediate termination of contract and further legal action in accordance with the Law, including but not limited to the encashment of Bank Guarantee related to Empanelment and Performance Bank Guarantee (PBG), as available with RailTel, related to this EoI.

Signature of Authorised Signatory

Name

Designation

CHECKLIST OF DOCUMENTS FOR BID SUBMISSION

S. No.	Document	Document Enclosed (Yes/No)	Pg.No.
1	Proof of submission of Tender Processing Fee and EMD.		
2	Authorization Letter/ POA and all Annexures/ Appendices given in the EOI documents.		
3	All undertakings on company letter head as required/ stated in the EOI document duly signed and stamped by the authorised signatory.		
4	The copy of EOI and subsequent addendum/ corrigendum duly Signed and Stamped by the Authorised Signatory of Bidder		
5	All Annexure/ Appendices/Formats/ Declarations as per CoR's RFP for tender ref. no. 2 addressing to RailTel's EOI issuing Authority.		
6	Compliance of eligibility criteria related documents as per Clause 3 and supporting documents.		
7	Any relevant document found suitable by bidder		
8	Empanelment certificate issued by RailTel to BA.		

Note:

1. The technical bid should have a 'Index' at the starting and all pages of bid should be Serially numbered and should be traceable as per the 'Index'.
2. All the submitted documents should be duly stamped and signed by the Authorized Signatory at each page.
3. The above checklist is indicative only. RailTel may ask for additional documents from the bidders, as per the requirement.

Commercial Bid

(On Organization Letter Head) TO BE UPLOADED IN FINANCIAL OFFER

EOI NO.: RCIL/NR/TM/JP/EOI/NWR/DY CSTE/Const/EI/AII-DIV/2024-25 DATED 10-02-2025

To,
General Manager (Mktg),
RailTel Corporation of India Limited.
Jaipur, Rajasthan

S.no	Description	Estimated Value (in Rs)
1	Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuja Road Kuwanthal, Devgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdawara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya - Nathdwara section of Ajmer division of North Western Railway".	Rs. 42,11,24,784.80/-
	Total Amount including GST	Rs. 42,11,24,784.80/-
	In words: Rupees Forty Two Crore Eleven Lakh Twenty Four Thousand Seven hundred Eighty Four and Eighty Paise only.	
	Quoted % Above /Below %
	Quoted% Above /Below (in Words)	

Note:

- Bidder should clearly indicate the bidding above or below, while submitting commercial offer.
- Prices in price bid should be quoted in the provided format. All prices should be quoted in Indian Rupees and indicated both in figure and words. Price in words shall prevail, in the event of any mismatch.

3. Instructions to fill the Price Bid: Bidder should provide all prices as per the prescribed format. Bidder should not leave any field blank.

Signature of Authorised Signatory Name

Designation

Company Seal

Total Amount of BoQ = **Rs. 42,11,24,784.80/-**

Bidder's offer: "I/We hereby offer to do the work at following rates."	
In Figure:	% Above/ At Par/ Below the schedule of rates
In Words:	% Above/ At Par/ Below the schedule of rates

Signature of Authorized Signatory

Name:

Designation:

Place:

Annexure 4A
(To be uploaded in Financial Offer)

BoQ (.xls) file copy enclosed

PROFORMA FOR PERFORMANCE BANK GUARANTEE

(On Stamp Paper of ₹ One Hundred)

To,
 Joint General Manager , Jaipur
 RailTel Corporation of India Limited.,

1. In consideration of the RailTel Corporation of India Limited (CIN: L64202DL2000GOI107905), having its registered office at Plate-A, 6th Floor, Office Block Tower-2, East Kidwai Nagar, New Delhi – 110023 (herein after called “RailTel”) having agreed to exempt (CIN :) having its registered office at (hereinafter called “the said Contractor”) from the demand, under the terms and conditions of Purchase Order No..... dated made between RailTel and..... for (hereinafter called “the said Agreement”) of security deposit for the due fulfilment by the said Contractor of the terms and condition contained in the said Agreement, or production of a Bank Guarantee for Rs. (Rs. Only). We..... (indicate the name and address and other particulars of the Bank) (hereinafter referred to as ‘the Bank’) at the request of contractor do hereby undertake to pay RailTel an amount not exceeding Rs. (RsOnly) against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Agreement.

2. We, the Bank do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount is claimed is due by way of loss or damage by the said Contractor of any of terms or conditions contained in the said Agreement by reason of the Contractor’s failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rs Only).

3. We, the Bank undertake to pay the RailTel any money so demanded notwithstanding any dispute or disputes raised by the Contractor in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal. The payment so made by us under this Bond shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

4. We, the Bank further agree that the Guarantee herein contained shall remain in full force and effect

during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges this Guarantee. Unless a demandor claim under the Guarantee is made on us in writing on or before We shall be discharged from all liability under this Guarantee thereafter.

5. We,.....the Bank further agree with the RailTel that the RailTel shall have fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Agreement or to extend time of to postpone for anytime or from time to time any of the powers exercisable by the RailTel against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Guarantee will not be discharge due to the change in the constitution of the Bank or the Contractor.

(.....indicate the name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of RailTel in writing.

Dated the Day of 2023 for.....(Name of Bank)

In the presence of Witnesses:

1. Signature With Date Name

2. Signature With Date Name

Encl: SFMS PBG Report

{RailTel SFMS details –

BG advising message – IFN 760COV/ IFN 767COV via SFMS.

IFSC Code of ICICI Bank to be used (ICIC0000007). Unique reference (RAILTEL6103) in field 7037}.

NON-DISCLOSURE AGREEMENT

This Non-Disclosure Agreement (this “Agreement”) is made and entered into on this _____ day of _____, 2024 (the “Effective Date”) at _____.

By and between

RailTel Corporation of India Limited, (CIN: L64202DL2000GOI107905), a Public Sector Undertaking under Ministry of Railways, Govt. of India, having its registered and corporate office at Plate-A, 6th Floor, Office Block, Tower -2, East Kidwai Nagar, New Delhi-110023 & Northern Region office at 6th Floor, 3rd Block, Delhi IT Park, Shastri Park, New Delhi - 110053, (hereinafter referred to as 'RailTel'), which expression shall unless repugnant to the context or meaning thereof, deem to mean and include its successors and its permitted assignees of the ONE PART,

And

_____ (CIN: _____), a company duly incorporated under _____ the provisions of Companies Act, having its registered office at _____, (hereinafter referred to as '_____'), which expression shall unless repugnant to the context or meaning thereof, deem to mean and include its successors and its permitted assignees of OTHER PART

RailTel and _____ shall be individually referred to as “Party” and jointly as “Parties”

WHEREAS, RailTel and _____, each possesses confidential and proprietary information related to its business activities, including, but not limited to, that information designated as confidential or proprietary under Section 2 of this Agreement, as well as technical and non- technical information, patents, copyrights, trade secrets, know-how, financial data, design details and specifications, engineering, business and marketing strategies and plans, forecasts or plans, pricing strategies, formulas, procurement requirements, vendor and customer lists,

inventions, techniques, sketches, drawings, models, processes, apparatus, equipment, algorithms, software programs, software source documents, product designs and the like, and third party confidential information (collectively, the “Information”);

WHEREAS, the Parties have initiated discussions regarding a possible business relationship for

WHEREAS, each Party accordingly desires to disclose certain Information (each Party, in such disclosing capacity, the “Disclosing Party”) to the other Party (each Party, in such receiving capacity, the “Receiving Party”) subject to the terms and conditions of this Agreement.

NOW THEREFORE, in consideration of the receipt of certain Information, and the mutual promises made in this Agreement, the Parties, intending to be legally bound, hereby agree as follows:

1. Permitted Use.

(a) Receiving Party shall:

- (i) hold all Information received from Disclosing Party in confidence;
- (ii) use such Information for the purpose of evaluating the possibility of entering into a commercial arrangement between the Parties concerning such Information; and
- (iii) restrict disclosure of such Information to those of Receiving Party’s officers, directors, employees, affiliates, advisors, agents and consultants (collectively, the “Representatives”) who the Receiving Party, in its reasonable discretion, deems need to know such Information, and are bound by the terms and conditions of (1) this Agreement, or (2) an agreement with terms and conditions substantially similar to those set forth in this Agreement.

(b) The restrictions on Receiving Party’s use and disclosure of Information as set forth above shall not apply to any Information that Receiving Party can demonstrate:

- (i) is wholly and independently developed by Receiving Party without the use of Information of Disclosing Party;
- (ii) at the time of disclosure to Receiving Party, was either (A) in the public domain, or (B) known to Receiving Party;
- (iii) is approved for release by written authorization of Disclosing Party; or
- (iv) is disclosed in response to a valid order of a court or other governmental body in the India or any political subdivision thereof, but only to the extent of, and for the purposes set forth in, such order; provided, however, that Receiving Party shall first and immediately notify Disclosing Party in writing of the order and permit Disclosing Party to seek an appropriate protective order.

(c)Both parties further agree to exercise the same degree of care that it exercises to protect its own Confidential Information of a like nature from unauthorised disclosure, but in no event shall a less than reasonable degree of care be exercised by either party.

2. Designation.

(a) Information shall be deemed confidential and proprietary and subject to the restrictions of this Agreement if, when provided in:

- (i) written or other tangible form, such Information is clearly marked as proprietary or confidential when disclosed to Receiving Party; or
- (ii) oral or other intangible form, such Information is identified as confidential or proprietary at the time of disclosure.

3. Cooperation. Receiving Party will immediately give notice to Disclosing Party of any unauthorized use or disclosure of the Information of Disclosing Party.

4. Ownership of Information. All Information remains the property of Disclosing Party and no license or other rights to such Information is granted or implied hereby.

Notwithstanding the foregoing, Disclosing Party understands that Receiving Party may currently or in the future be developing information internally, or receiving information from other parties that may be similar to Information of the Disclosing Party. Notwithstanding anything to the contrary, nothing in this Agreement will be construed as a representation or inference that Receiving Party will not develop products, or have products developed for it, that, without violation of this Agreement, compete with the products or systems contemplated by Disclosing Party's Information.

5. No Obligation. Neither this Agreement nor the disclosure or receipt of Information hereunder shall be construed as creating any obligation of a Party to furnish Information to the other Party or to enter into any agreement, venture or relationship with the other Party.

6. Return or Destruction of Information.

(a) All Information shall remain the sole property of Disclosing Party and all materials containing any such Information (including all copies made by Receiving Party) and its Representatives shall be returned or destroyed by Receiving Party immediately upon the earlier of:

- (i) termination of this Agreement;
- (ii) expiration of this Agreement; or
- (iii) Receiving Party's determination that it no longer has a need for such Information.

(b) Upon request of Disclosing Party, Receiving Party shall certify in writing that all Information received by Receiving Party (including all copies thereof) and all materials containing such Information (including all copies thereof) have been destroyed.

7. Injunctive Relief: Without prejudice to any other rights or remedies that a party may have, each party acknowledges and agrees that damages alone may not be an adequate remedy for any breach of this Agreement, and that a party shall be entitled to seek the

remedies of injunction, specific performance and/or any other equitable relief for any threatened or actual breach of this Agreement

8. Notice.

(a) Any notice required or permitted by this Agreement shall be in writing and shall be delivered as follows, with notice deemed given as indicated:

- (i) by personal delivery, when delivered personally;
- (ii) by overnight courier, upon written verification of receipt; or
- (iii) by certified or registered mail with return receipt requested, upon verification of receipt.

(b) Notice shall be sent to the following addresses or such other address as either Party specifies in writing.

RailTel Corporation of India limited:

Attn:

Address:

Phone:

Email.:

Attn:

Address:

Phone:

Email

9. Term, Termination and Survivability.

(a) Unless terminated earlier in accordance with the provisions of this agreement, this Agreement shall be in full force and effect for a period of years from the effective date hereof.

(b) Each party reserves the right in its sole and absolute discretion to terminate this Agreement by giving the other party not less than 30 days' written notice of such termination.

(c) Notwithstanding the foregoing clause 9(a) and 9 (b) , Receiving Party agrees that its obligations, shall:

- (i) In respect to Information provided to it during the Term of this agreement, shall survive and continue even after the expiry of the term or termination of this agreement; and
- (ii) not apply to any materials or information disclosed to it thereafter.

10. Governing Law and Jurisdiction. This Agreement shall be governed in all respects solely and exclusively by the laws of India without regard to its conflicts of law principles. The Parties hereto expressly consent and submit themselves to the jurisdiction of the courts of New Delhi.

11. Counterparts. This agreement is executed in duplicate, each of which shall be deemed to be the original and both when taken together shall be deemed to form a single agreement

12. No Definitive Transaction. The Parties hereto understand and agree that no contractor agreement with respect to any aspect of a potential transaction between the Parties shall be deemed to exist unless and until a definitive written agreement providing for such aspect of the transaction has been executed by a duly authorized representative of each Party and duly delivered to the other Party (a "Final Agreement"), and the Parties hereby waive, in advance, any claims in connection with a possible transaction unless and until the Parties have entered into a Final Agreement.

13. Settlement of Disputes:

(a) The parties shall, at the first instance, attempt to resolve through good faith negotiation and consultation, any difference, conflict or question arising between the parties hereto relating to or concerning or arising out of or in connection with this agreement, and such negotiation or consultation shall begin promptly after a Party has delivered to another Party a written request for such consultation.

(b) In the event of any dispute, difference, conflict or question arising between the parties hereto, relating to or concerning or arising out of or in connection with this agreement, is not settled through good faith negotiation or consultation, the same shall be referred to arbitration by a sole arbitrator.

14. The sole arbitrator shall be appointed by CMD/RailTel out of the panel of independent arbitrators maintained by RailTel, having expertise in their respective domains. The seat and the venue of arbitration shall be New Delhi. The arbitration proceedings shall be in accordance with the provision of the Arbitration and Conciliation Act 1996 and any other statutory amendments or modifications thereof. The decision of arbitrator shall be final and binding on both parties. The arbitration proceedings shall be conducted in English Language. The fees and cost of arbitration shall be borne equally between the part

15. CONFIDENTIALITY OF NEGOTIATIONS

Without the Disclosing Party's prior written consent, the Receiving Party shall not disclose to any Person who is not a Representative of the Receiving Party the fact that Confidential Information has been made available to the Receiving Party or that it has inspected any portion of the Confidential Information or that discussions between the Parties may be taking place.

16. REPRESENTATION

The Receiving Party acknowledges that the Disclosing Party makes no representation or warranty as to the accuracy or

completeness of any of the Confidential Information furnished by or on its behalf. Nothing in this clause operates to limit or exclude any liability for fraudulent misrepresentation.

17. ASSIGNMENT

Neither this Agreement nor any of the rights, interests or obligations under this Agreement shall be assigned, in whole or in part, by operation of law or otherwise by any of the Parties without the prior written consent of each of the other Parties. Any purported assignment without such consent shall be void. Subject to the preceding sentences, this Agreement will be binding upon, inure to the benefit of, and be enforceable by, the Parties and their respective successors and assigns.

18. EMPLOYEES AND OTHERS

Each Party shall advise its Representatives, contractors, subcontractors and licensees, and shall require its Affiliates to advise their Representatives, contractors, subcontractors and licensees, of the obligations of confidentiality and non-use under this Agreement, and shall be responsible for ensuring compliance by its and its Affiliates' Representatives, contractors, subcontractors and licensees with such obligations. In addition, each Party shall require all persons and entities who are not employees of a Party and who are provided access to the Confidential Information, to execute confidentiality or non-disclosure agreements containing provisions no less stringent than those set forth in this Agreement. Each Party shall promptly notify the other Party in writing upon learning of any unauthorized disclosure or use of the Confidential Information by such persons or entities.

19. NO LICENSE

Nothing in this Agreement is intended to grant any rights to under any patent, copyright, or other intellectual property right of the Disclosing Party, nor will this Agreement grant

the Receiving Party any rights in or to the Confidential Information of the Disclosing Party, except as expressly set forth in this Agreement.

20. RELATIONSHIP BETWEEN PARTIES:

Nothing in this Agreement or in any matter or any arrangement contemplated by it is intended to constitute a partnership, association, joint venture, fiduciary relationship or other cooperative entity between the parties for any purpose whatsoever. Neither party has any power or authority to bind the other party or impose any obligations on it and neither party shall purport to do so or hold itself out as capable of doing so.

21. UNPUBLISHED PRICE SENSITIVE INFORMATION (UPSI)

_____ agrees and acknowledges that _____, its Partners, employees, representatives etc., by virtue of being associated with RailTel and being in frequent communication with RailTel and its employees, shall be deemed to be "Connected Persons" within the meaning of SEBI (Prohibition of Insider Trading) Regulations, 2015 and shall be bound by the said

regulations while dealing with any confidential and/ or price sensitive information of RailTel. _____ shall always and at all times comply with the obligations and restrictions contained in the said regulations. In terms of the said regulations, _____ shall abide by the restriction on communication, providing or allowing access to any Unpublished Price Sensitive Information (UPSI) relating to RailTel as well as restriction on trading of its stock while holding such Unpublished Price Sensitive Information relating to RailTel.

22. MISCELLANEOUS.

This Agreement constitutes the entire understanding among the Parties as to the Information and supersedes all prior discussions between them relating thereto. No amendment or modification of this Agreement shall be valid or binding on the Parties unless made in writing and signed on behalf of each Party by its authorized representative. The failure or delay of any Party to enforce at any time any provision of this Agreement shall not constitute a waiver of such Party's right thereafter to enforce each and every provision of this Agreement. In the event that any of the terms, conditions or provisions of this Agreement are held to be illegal, unenforceable or invalid by any court of competent jurisdiction, the remaining terms, conditions or provisions hereof shall remain in full force and effect. The rights, remedies and obligations set forth herein are in addition to, and not in substitution of, any rights, remedies or obligations which may be granted or imposed under law or in equity.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the date set forth above.

RailTel Corporation of India Ltd

By

By

Name:

Name:

Title:

Title:

Witnesses:

Post Bid Agreement

(To be executed in presence of Public Notary on non-judicial stamp paper of the value of Rs. 100/-. The stamp paper has to be in the name of the BA)

This Post-Bid Agreement (the “**Agreement**”) is made at Jaipur on this ____ Day of _____ (month) 2023.

BETWEEN

M/s. RailTel Corporation Of India Limited, (CIN: L64202DL2000GOI107905) a company registered under the Companies Act 1956, having its registered and corporate office at Plate-A, 6th Floor, Office Block, Tower-2, East Kidwai Nagar, New Delhi India – 110 023 and Northern Regional office at 6th Floor, 3rd Block, Delhi IT Park, Shastri Park, New Delhi - 110053 (hereinafter referred to as “**RailTel**” which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns) of the **FIRST PART**.

AND

M/s. XXXX, (CIN: _____) a company registered under the Companies Act 1956, having _____ its _____ registered office _____ at _____ and its Corporate Office located at _____, (hereinafter referred to as “**XXXX**” which expression shall, unless repugnant to the context or meaning thereof, be deemed to include its successors and permitted assigns) of the **SECOND PART**.

RailTel and _____ shall be hereinafter individually referred to as “**Party**” and collectively as “**Parties**.”

WHEREAS,

- A) RailTel is a "Mini Ratna (Category-I)" CPSU of Ministry of Railways, having exclusive right of way along Indian Railways and has created an OFC backbone and associated transport and network infrastructure to provide carrier class telecom services. RailTel has Unified License issued by DoT to provide a range of telecom services. RailTel also has two tier III certified datacentres at Secunderabad and Gurugram. RailTel has created a slew of digital services like cloud, hosting, hosted Video Conferencing service, Aadhar Services, Content delivery platform, WiFi as a service etc. RailTel has strong capabilities in managing telecom infrastructure, MPLS network infrastructure, data centre services like IaaS (Infrastructure as a Service) and PaaS (Platform as a Service).
- B) _____ (DETAILS OF SECOND PART)
- C) RailTel had floated an EOI No: _____ dated _____ pursuant to the RFP floated by End Customer for “_____”

for End Customer Organization for agreed Scope of Work”(hereinafter referred as “The said work/project/tender”), and subsequently, based on the offer submitted by M/s XXXX towards the RailTel’s EOI, M/s XXXX has been selected by RailTel as Business Associate for the said Project.

D) RailTel is in the process of executing tender awarded by end customer, complete details of which have deliberately not been shared with XXXX and XXXX has waived its right to get the RFP document of end customer owing to confidentiality concern raised by the end customer. However, a limited scope of work on ‘need to know basis’ and as detailed in clause

1.7 below, which will be carried out by XXXX has been shared with XXXX and based on the representation of “XXXX” that “XXXX” has read the said limited Scope of Work and has understood the contents thereof and that “XXXX” has sufficient experience to execute the said limited and defined scope of work, the Parties have mutually decided to form a “Business association” wherein RailTel shall act as the “Bidder” and “XXXX” shall act as the “business associate” in terms of the said Tender and in accordance to the terms agreed hereunder;

E) RailTel shall submit Rupees YYYY as BG against pre integrity pact at the time of submission of bid as an Integrity Pact bank guarantee to end customer and accordingly “XXXX” shall submit Rupees ZZZZ as BG of pre integrity pact on back to back

basis to RailTel at the time of submission of EOI. **(This is applicable on cases to case basis as per CoR requirement. May please read in conjunction of the current RFP.)**

F) Party hereby acknowledges that RailTel has received Rs. _____/-
(Rs. _____) from M/s XXXX as per the Terms and conditions of EOI no. _____ dated _____.

G) The Parties are thus entering into this Agreement to record the terms and conditions of their understanding and the matters connected therewith.

RailTel has agreed to extend all the necessary and required support to “XXXX” during the entire contract period.

NOW, THEREFORE, in consideration of the mutual covenants set forth herein it is hereby agreed by and between the Parties hereto as under:

1. SCOPE OF CO-OPERATION

1.1. Parties have agreed to form a “business association” to co-operate with each other on an exclusive basis with respect to execution of the said Project.

1.2. It has been further agreed between the Parties that Parties will work together to provide to best techno commercial solution to the COR for the said Project during the validity of this

Agreement.

- 1.3. The Parties also agree that the terms of the said EOI for limited and defined scope of work along with the Corrigendum's issued thereafter shall apply mutatis-mutandis to this Agreement.
- 1.4. The Parties further agree that they shall, enter into a 'Definitive Agreement' containing elaborate terms and conditions, role and responsibilities and respective scope of work of this Agreement after declaration of RailTel as the successful bidder of the said Project.
- 1.5. RailTel shall submit the PBG amounting Rs. XXXXX, earnest money deposit / EMD declaration (whichever is applicable) and performance bank guarantee to **End customer** and accordingly "XXXX" shall submit to RailTel, BG amounting to Rs. _____ as the earnest money deposit. Further, XXXX shall also pay the performance bank guarantee in proportionate to the extent of its defined scope of work.
- 1.6. RailTel may further retain some portion of the work mentioned in the end organization's RFP, where RailTel has competence so that overall proposal becomes most winnable proposal.

XXXX agrees, undertakes and acknowledges that following shall be Scope of Work of XXXX out of the total project work.:

2. Technical Terms – As per CoR document

3. **TERM AND TERMINATION**

- 3.1. This Agreement shall come into force as of the date of signing and shall continue to be in full force and effect till the complete discharge of all obligations, concerning the carrying out of the said Project, except terminated earlier by the Parties in terms of this Agreement or in terms of the said project, whichever is applicable.
- 3.2. This Agreement can be terminated by either Parties forthwith in the event of happening of the following events:
 - (a) End customer announces or notifies the cancellation of the said Project and / or withdrawing the said RFP.
 - (b) The receipt of an official communication that End customer chooses not to proceed with RailTel for the said Project or RailTel is not short listed by End customer.
 - (c) Material breach of any of the terms and conditions of this Agreement by either of the Parties and the same is not rectified by the defaulting Party beyond 15 (fifteen) days (or a reasonable time period as mentioned under the notice issued by the other Party) from the date of receipt of notice from the other Party to cure the said breach.
- 3.3. Parties agree and understand that as of the execution of this Agreement they are contractually bound and obligated to perform the services, obligations and the scope of work entrusted, should RailTel be declared as the successful bidder of the said Project. Any Party shall not withdraw its participation subsequent to execution of this Agreement, at any point in time except in case of material breach of any of the terms of the Agreement.
- 3.4. In case "XXXX" breach the terms of Agreement i.e. defaulting party in such case the balance unsupplied quantity or service shall be completed by RailTel i.e. non-defaulting party and cost for completion of that balance unsupplied quantity or service of such defaulting party shall be executed by RailTel at the risk and cost of such defaulting party.

4. **Liability:**

It is understood that the parties are entering into this post-bid teaming agreement for requirement of best techno commercial solution against the RFP floated by end customer.

Organization. Parties acknowledge and agree that “XXXX” shall be completely liable for the successful execution of this project, in relation to its defined scope of work (as detailed in clause 1.7 above), fully complying the end customer requirements . Accordingly, it is agreed that notwithstanding anything contained in the RFP document, “XXXX” shall be liable to RailTel with regard to its obligations and liability to complete the agreed and defined scope of work as detailed in clause 1.7 above..

5. EXCLUSIVITY

Parties agree to co-operate with each other for the purpose of the said Project on an exclusive basis with respect to applying for, submitting and execution of the said Project including providing of technical demo, proof of concept for the agreed and defined scope of work.

6. PAYMENT TERMS

The payment terms between the parties shall be only on receipt of payment from end customer and will be back to back as per customer acceptance on payment terms.

Bidder will be responsible for coordination of Measurements of work from COR & Realizing payment from COR of RailTel

7. TAXES

Parties agree that they will comply with the Indian Income Tax Act in force from time to time and pay Indian Income Tax, as may be imposed / levied on them by the Indian

Income Tax Authorities, for the payments received by them for the Project under this agreement and any other taxes, cess, surcharge, etc. for their respective scope of works;

8. INDEMNIFICATION

8.1 Parties agree to and undertake to indemnify and hold each other, its officers, directors, agents and employees harmless, from and against any and all claims, demands, causes of action, losses, damages, costs and expenses (including attorney's reasonable fees, costs of investigation and defence) arising out of or resulting from any claim, action or other proceeding (including any proceeding by any of the indemnifying party's employees, agents or contractors) based upon:

- i. any breach or contravention of any of the terms, conditions, covenants of this Agreement by the Party;
- ii. Unethical business practices;
- iii. any acts or omission of the Party and/ or any of its employees, agents or contractors, and the liability for damages to property arising from or out of party operations in connection with the performance of this agreement;
- iv. any claim for taxes that might arise or be imposed due to this performance of Services hereunder;
- v. any representation or warranty or information furnished by the Party being found to be false;
- vi. Parties failure to pay all applicable compensation to its respective personnel;
- vii. death or personal injury to any person;
- viii. destruction or damage to any property by acts or omissions of either Party, its representatives or personnel;
- ix. any violation/non-compliance by the Party with any applicable laws governmental regulations or orders;
- x. any third party liability;
- xi. improper handling or misuse of the Confidential Information of the Party(ies) by the Party

8.2 XXXX shall be liable to all risks and consequences (including the risk of payments) suffered in the performance of services under the Project and undertakes to indemnify RailTel from and against any non payments (of RailTel's share payable to RailTel), recoveries and claim from End Customer or any other cost or losses incurred due to default/non performance on part of XXXX.

9. COMPLIANCES TO STATUTORY OBLIGATIONS

9.1. Parties shall also obtain and keep in place necessary insurance policies, mediclaim policies, group insurance schemes of adequate value to cover their workmen, supervisors, etc. with regard to any accidents, injury or the liability under the Employee Compensation Act.

9.2. Parties shall observe and be responsible for the compliance of all labour laws (including labour cess) as per government notifications and shall maintain necessary records for the same and shall submit the same to RailTel when so required.

9.3. Parties shall duly maintain all records / registers required to be maintained by them under various labour laws mentioned above and shall produce the same before the concerned Statutory Authorities whenever required and called upon to do so.

10. LEGAL STATUS

This Agreement constitutes a contractual relationship and shall relate solely to the Project and shall not extend to other activities or be construed to create a corporation, body corporate, partnership or any other form of legal entity.

11. REPRESENTATIONS AND COVENANTS

11.1. Each Party represents and warrants to the other Party as follows:

11.1.1. That it has full capacity, power and authority and has obtained all requisite consents and approvals to, enter into and to observe and perform this Agreement and to consummate the transactions contemplated hereunder. Each of the Persons / personnel executing this Agreement on behalf of the each of the Parties have full capacity and authority to sign and execute this Agreement on behalf of the respective Parties;

11.1.2. The execution, delivery and consummation of, and the performance by it, of this Agreement shall not conflict with, violate, result in or constitute a breach of or a default under, (a) any contract by which it or any of its assets or properties, are bound or affected, and/or (b) its constitutional documents;

11.1.3. This Agreement constitutes its legal, valid and binding obligations, enforceable against it, in accordance with their terms under Applicable Statutory Law(s);

11.1.4. It has the right, authority and title to execute this Agreement;

12. SUBCONTRACTING BETWEEN PARTIES

If a Party subcontracts certain supplies or services pertaining to its scope of work to the other party, then the resulting relationship between such parties shall be governed by a separate subcontract. This Agreement shall not in any way be affected thereby except as stated otherwise in this Agreement

13. GOVERNING LAW AND JURISDICTION

The construction, validity and performance of this Agreement shall be governed in all respects by the Laws of India. The Parties hereby submit to the exclusive jurisdiction of the Indian courts at Delhi only.

14. GOOD FAITH NEGOTIATION AND DISPUTE RESOLUTION

The parties shall, at the first instance, attempt to resolve through good faith negotiation and consultation, any difference, conflict or question arising between the parties hereto relating to or concerning or arising out of or in connection with this agreement, and such negotiation or consultation shall begin promptly after a Party has delivered to another Party a written request for such consultation.

In the event of any dispute, difference, conflict or question arising between the parties hereto, relating to or concerning or arising out of or in connection with this agreement, is not settled through good faith negotiation or consultation, the same

shall be referred to arbitration by a sole arbitrator.

The sole arbitrator shall be appointed by CMD/RailTel out of the panel of independent arbitrators maintained by RailTel, having expertise in their respective domains. The seat and the venue of arbitration shall be New Delhi. The arbitration proceedings shall be in accordance with the provision of the Arbitration and Conciliation Act 1996 and any other statutory amendments or modifications thereof. The decision of arbitrator shall be final and binding on both parties. The arbitration proceedings shall be conducted in English Language. The fees and cost of arbitration shall be borne equally between the parties.

15. FORCE MAJEURE

“Force Majeure Event” shall mean any event beyond the reasonable control of the affected Party including acts of God, fires, earthquakes, strikes, pandemic, epidemics, lock down, and labor disputes, acts of war or terrorism, civil unrest, economic and financial sanctions, or acts or omissions of any Governmental Authority occurring on or after the Signature Date.

No Party shall be liable to the other if, and to the extent, that the performance or delay in performance of any of its obligations under this Agreement is prevented, restricted, delayed or interfered with, due to a Force Majeure Event.

The Party affected by Force Majeure Event shall promptly inform the other Party in writing and shall furnish within 30 (thirty) days thereafter, sufficient proof of the occurrence and expected duration of such Force Majeure Event. The Party affected by Force Majeure Event shall also use all reasonable endeavours to mitigate the negative effects of such Force Majeure Event on such Party's ability to perform its contractual obligations. In the event of a Force Majeure Event, the Parties shall immediately consult with each other in order to find an equitable solution and shall use all reasonable endeavours to minimise the consequences of such Force Majeure Event.

The occurrence of a Force Majeure Event shall however, not relieve a Party of any obligation to pay any sum due under this Agreement prior to the occurrence of the Force Majeure Event.

If the Force Majeure lasts for more than 6 (six) months, the Parties may mutually decide in writing on the future course of action with respect to this Agreement.

16. INTELLECTUAL PROPERTY RIGHTS

16.1. Each Party shall remain the sole owner of all industrial or intellectual property rights, Technical Data, Know-How, designs, specifications and the like, generated or acquired before the signature, or beyond the scope of this agreement.

16.2. Each Party shall remain the sole owner of all industrial or intellectual property rights, technical data, know-how, design specifications and the like generated solely by that Party during the course of the performance of this agreement and shall not be free to use it by the other party and if the other party uses that intellectual property rights prior permission shall be taken with paying necessary fees for such rights.

16.3. In case of joint development, the work-share and associated ownership of intellectual property of each Party shall be mutually agreed upon and defined in advance in the definitive agreement for the specific program. However, should any invention be jointly made by the Parties in the performance of this agreement, without neither Party being in a position to reasonably claim the ownership of said intellectual property right, the said right shall be jointly owned by the Parties and the corresponding measures of protection for both Parties of the said right as may be practicable shall be mutually agreed by both Parties and cost for such registration of such right shall be borne by the parties proportionately as per the ownership of the rights.

16.4 As on date, Parties confirm that there are no infringements of any Intellectual Property Rights of the products contemplated under this agreement, in accordance with the laws prevailing in the country.

16.5. The Parties undertake and confirm that the Technology / Knowhow / Design owned by each of them and intended to be put into use for execution of various Projects pursuant to this agreement has been originally developed by each of such Parties. The Parties are entitled to all the Intellectual Property Rights in Technology / Knowhow / Design intended to be put into use for execution of various Projects and no third-party Intellectual Property Rights have been put into use either in their original or modified form without proper authorisation of such third party. The Parties further vouchsafes that the foregoing undertaking is actuated by truth and accuracy and no misrepresentation is being put into use for inducing each other to enter into this agreement.

17. CONFIDENTIALITY

17.1. During the term of this agreement, either party may receive or have access to technical information, as well as information about product plans and strategies, promotions, customers and related non-technical business information which the disclosing party considers to be confidential ("Confidential Information as per RFP tender document"). In the event Confidential Information is to be disclosed, the Confidential Information must be marked as confidential at the time of disclosure, or if disclosed orally but stated to be confidential, and be designated as confidential in writing by the disclosing party summarizing the Confidential Information disclosed and sent to the receiving party within thirty (30) days after such oral disclosure.

17.2. Confidential Information may be used by the receiving party only with respect to the performance of its

obligations under this Agreement, and only by those employees of the receiving party and its subcontractors who have a need to know such information for purposes related to this Agreement, provided that such subcontractors have signed separate agreements containing substantially similar confidentiality provisions. The receiving party must protect the Confidential Information of the disclosing party by using the same degree of care to prevent the unauthorized use, dissemination or publication of such Confidential Information, as the receiving party uses to protect its own confidential information of like nature.

17.3. The obligations is not applicable to any information which is:

17.3.1. Already known by the receiving party prior to disclosure;

17.3.2. Publicly available through no fault of the receiving party;

17.3.3. Rightfully received from a third party without being responsible for its confidentiality;

17.3.4. Disclosed by the disclosing party to a third party without being responsible for its Confidentiality on such third party;

17.3.5. Independently developed by the receiving party prior to or independent of the disclosure;

17.3.6. Disclosed under operation of law;

17.3.7. Disclosed by the receiving party with the disclosing party's prior written approval.

17.4 XXXX agrees and acknowledges that XXXX, its Partners, employees, representatives etc., by virtue of being associated with RailTel and being in frequent communication with RailTel and its employees, shall be deemed to be "Connected Persons" within the meaning of SEBI (Prohibition of Insider Trading) Regulations, 2015 and shall be bound by the said regulations while dealing with any confidential and/ or price sensitive information of RailTel. XXXX shall always and at all times comply with the obligations and restrictions contained in the said regulations. In terms of the said regulations, XXXX shall abide by the restriction on communication, providing or allowing access to any Unpublished Price Sensitive Information (UPSI) relating to RailTel as well as restriction on trading of its stock while holding such Unpublished Price Sensitive Information relating to RailTel

17.5 Notwithstanding anything contained in this agreement, XXXX undertakes, agrees and acknowledges that being RailTel's Business Associate, XXXX shall maintain utmost confidentiality in relation to said Project. XXXX further, undertakes that any information relating to said Project which is or will be disclosed/ divulged by RailTel on need to know basis, will be received and treated by XXXX as strictly confidential and XXXX shall not, without the prior written consent of the RailTel or as expressly permitted herein, disclose or make available to any other person such information.

18. **NOTICES**

Notices, writings and other communications under this Agreement may be delivered by hand, by registered mail, by courier services or facsimile to the addresses as set out below:

To: RailTel Corporation of India Ltd

Kind Attn: Executive Director / Northern Region

Address: 6th Floor, 3rd Block, Delhi IT Park, New Delhi - 110053

Tel No.: +91-11-22185933/22185934

Email: ednr@railtelindia.com

To XXXX

To: XXXX

Kind Attn: _____ Address: _____

Mob. No.: _____ Email: _____

19. **AMENDMENT**

No amendment or modification or waiver of any provision of these presents, nor consent to any departure from the performance of any obligations contained herein, by any of the Parties hereto, shall in any event be valid and effective unless the same is in writing and signed by the Parties or their duly authorized representative especially empowered in this behalf and the same shall be effective only in respect of the specific instance and for the specific purpose for which it is given.

20. PRIOR UNDERSTANDING

This Agreement contains the entire Agreement between the Parties to this Agreement with respect to the subject matter of the Agreement, is intended as a final expression of such Parties' agreement with respect to such terms as are included in this Agreement is intended as a complete and exclusive statement of the terms of such agreement, and supersedes all negotiations, stipulations, understanding, Agreements, representations and warranties if any, with respect to such subject matter, which precede or accompany the execution of this Agreement.

21. GENERAL

21.1. Binding Effect:

This Agreement shall be binding upon and inure to the benefit of the Parties here to and their respective legal successors.

21.2. Counterparts:

This Agreement may be executed simultaneously in 2 (two) counterparts, each of which shall be deemed to be original and all of which together shall constitute the same Agreement.

21.3. Non-Partnership:

21.3.1. This Agreement shall be on a principal-to-principal basis and shall not create any principal-agent relationship between the Parties.

21.3.2. Nothing in this Agreement shall be deemed to constitute a partnership or joint venture between the Parties or otherwise entitle either Party to have an authority to bind the other Party for any purpose.

21.4. Severability:

In the event any provision of this agreement is held invalid or un-enforceable by a court of competent jurisdiction, such provision shall be considered separately and such determination shall not invalidate the other provisions of this agreement and annexure/s which will be in full force and effect.

21.5. Waiver:

A failure by any Party to exercise or enforce any rights conferred upon it by this Agreement shall not be deemed to be a waiver of any such rights or operate so as to bar the exercise or enforcement thereof at any subsequent time.

21.6. Time is of essence:

Time is the essence of this agreement and the Parties herein agree and acknowledge to abide by the same.

22. Miscellaneous

22.1. No Party to this agreement will have any rights or obligations arising from or in relation to this agreement in excess of those rights and obligations expressly declared herein.

22.2. No Party to this agreement is entitled to sell, assign or otherwise transfer any of its rights and/or obligations arising from or in relation to this agreement to any third party, without the prior written consent of the other Party of this agreement.

22.3. Each Party shall be solely responsible for its own actions or failures to act and for its own commitments and undertakings. Neither Party shall present itself as the representative or agent of the other Party, nor shall it have the power or the authority to commit the other Party, unless it receives the other Party's prior written consent.

22.4. No release shall be made by any Party to the news media or the general public relating to this agreement and/or the subject matter thereof without prior written approval of the other Party..

22.5. During the term of this agreement, each party shall refrain from taking any action or attempt to take any

action with the intent of impairing or causing prejudice to the business relationship, whether existing or prospective that subsists between the other party and its customers and business partners. Each party shall also desist from inducing or influencing or attempting to induce or influence any customer or business partner, whether existing or prospective of the other party, resulting into prejudice or detriment to business prospects of the other party.

Furthermore, Parties shall not compete with or cause detriment to the business prospects of each other by making use of confidential information, whether in its embodied or disembodied form, shared pursuant to this agreement.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the day and year first above written.

For RailTel Corporation of India Limited

Authorised Signatory

Name:

Designation:

In Presence of witness:

Signature:

Name:

Address:

For XXXX

Authorized Signatory

Name:

Designation:

Signature:

Name:

Address

Integrity Pact Program

Bringing the practices in RailTel Corporation of India Limited up to the internationally acclaimed best practices for raising integrity levels in procurement of works and services, RailTel is implementing the Integrity Pact Program in line with the recommendation of Central Vigilance Commission (CVC).

The Integrity Pact Program envisages an 'Integrity Pact', an agreement between the prospective Bidders & Contractors and RailTel, committing the persons/officials of both parties, not to exercise any influence on any aspect of the contract.

Coverage:

The Integrity Pact Program will cover the following tenders/procurements:

All tenders relating to procurement of OFC, quad cable, pre-fab shelters, electronic equipments and its installations and/or commissioning etc and other item(s) or activity/activities proposed to be carried out or required by the Company for the value exceeding Rs. 15 crores at a time including for repair and maintenance of cable /network and any other items required for special works assigned to RailTel

Implementation:

The accompanying 'Integrity Pact' will be issued along with the bidding documents and will also be uploaded on the website.

Bidder of Indian origin shall submit the Integrity Pact (in 2 copies) on a non judicial stamp paper of Rs. 100/- duly signed by the person signing the bid. Bidder of foreign origin may submit the Integrity Pact on its company's letterhead, duly signed by the person signing the bid.

If the bidder is a partnership or a consortium, the Integrity Pact shall be signed by all the partners or consortium members.

The 'Integrity Pact' shall be returned by the Bidder duly signed along with the Bid in a separate envelope, duly superscripted with 'Integrity Pact'.

On behalf of RailTel, the Integrity pact will be signed by the concerned representative of the Projects department in the Bid Opening Committee immediately on receipt of Integrity Pact signed by the Bidder at the time of Bid opening. One copy of the Integrity Pact shall be retained by RailTel and the 2nd copy will be issued to the representative of the bidders during bid opening. If the Bidders representative is not present during the Bid opening, the 2nd copy shall be sent to the bidder by post/courier.

Bidder's failure to submit the Integrity Pact duly signed along with the Bid shall lead to outright rejection of the Bid.

The bidder shall not change the contents of the Integrity pact.

All the pages of the Integrity Pact are to be signed by both RailTel and the Bidder.

Independent External Monitors (IEMs):

1. CMD of RailTel is the authority to appoint Independent External Monitor(s) to oversee Integrity Pact Program's implementation and effectiveness with respect to the tenders/procurements to which Integrity Pact Program applies. For this purpose, CVC would nominate IEMs for RailTel from the panel of IEMs maintained by it. The Terms and Conditions of their appointment would be decided by CMD, RailTel in line with CVC guidelines in the matter.
2. In all tenders covered under the Integrity Pact, particulars of all IEMs, including their email IDs should be mentioned.

3. A copy of such Tender Document shall be forwarded to both IEM's promptly after publishing of the same, Information regarding the contracts awarded against the said Tender shall be provided to the concerned IEM at regular intervals as decided in consultation with CVO. Additional details/documents, if any, shall be furnished to the concerned IEM/IEMs, as and when sought by them.
4. IEM/IEMs shall provide their opinion on the complaints received by them to CMD RaiTel at the earliest. They may however send their report directly to the CVO in case of suspicion of serious irregularities requiring legal/administrative action.

NAME	CONTACT
Shri. Vinit Kumar Jayaswal	Address: E-34, Brahma Apartments, Plot-7, Sector-7, Dwarka, New Delhi-110075 E-Mail ID: gkvinit@gmail.com Mobile Number: (+91)-9871893484
Shri. Punati Sridhar	Address: 8C, Block 4, 14-C Cross, MCHS Colony, HSR 6th Sector, Bangaluru-560102 E-Mail ID: poonatis@gmail.com Mobile Number: (+91)-9448105097

GUIDELINES FOR INDIAN AGENTS OF FOREIGN SUPPLIERS

- 1.0 There shall be compulsory registration of agents for all global (Open) Tender and Limited Tender. An agent who is not registered with RailTel Units shall apply for registration in the prescribed Application -Form.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/ Original certificate of the principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ retainer-ship being paid by the principal to the agent before the placement of order by RailTel.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.

2.0 DISCLOSURE OF PARTICULARS OF AGENTS/ REPRESENTATIVES IN INDIA, IF ANY.

- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offer:
 - 2.1.1 The name and address of the agents/representatives in India, if any and the extent of authorization and authority given to commit the Principals. In case the agent/representative be a foreign Company, it shall be confirmed whether it is real substantial Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration if any, payable to his agents/ representatives in India, may be paid by RAILTEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 The name and address of the foreign principals indicating their nationality as well as their status, i.e, whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/representatives.

2.2.2 The amount of commission /remuneration included in the price(s) quoted by the tenderer for himself.

2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by RAILTEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.

2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.

2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by RAILTEL. Besides this there would be a penalty of banning business dealings with RAILTEL or damage or payment of a named sum.

* * * * *

GUIDELINES ON BANNING OF BUSINESS DEALINGS CONTENTS

S. No.	Description	Page No.
1	Introduction	4
2	Scope	4
3	Definitions	5-6
4	Initiation of Banning / Suspension	6
5	Suspension of Business Dealings	6-8
6	Ground on which Banning of Business Dealings can be initiated	8-9
7	Banning of Business Dealings	9-11
8	Removal from List of approved Agencies-Suppliers/ Contractors etc.	11
9	Procedure for issuing Show-cause Notice	11
10	Appeal against the Decision of the Competent Authority	12
11	Review of the Decision by the Competent Authority	12
12	Circulation of the names of Agencies with whom Business Dealings have been banned	12

1. Introduction

- 1.1 RailTel Corporation of India Ltd (RAILTEL), being a Public Sector Enterprise, under the administrative control of the Ministry of Railways and therefore being an authority deemed to be 'the state' within the meaning of Article 12 of Constitution of India, has to ensure preservation of rights enshrined in Chapter III of the Constitution. RAILTEL has also to safeguard its commercial interests. RAILTEL deals with Agencies, who have a very high degree of integrity, commitments and sincerity towards the work undertaken. It is not in the interest of RAILTEL to deal with Agencies who commit deception, fraud or other misconduct in the execution of contracts awarded / orders issued to them. In order to ensure compliance with the constitutional mandate, it is incumbent on RAILTEL to observe principles of natural justice before banning the business dealings with any Agency.
- 1.2 Since banning of business dealings involves civil consequences for an Agency concerned, it is incumbent that adequate opportunity of hearing is provided and the explanation, if tendered, is considered before passing any order in this regard keeping in view the facts and circumstances of the case.

2. Scope

- 2.1 The General Conditions of Contract (GCC) of RAILTEL generally provide that RAILTEL reserves its rights to remove from list of approved suppliers/ contractors or to ban business dealings if any Agency has been found to have committed misconduct and also to suspend business dealings pending investigation. If such provision does not exist in any GCC, the same may be incorporated.
- 2.2 Similarly, in case of sale of material there is a clause to deal with the Agencies/ customers/ buyers, who indulge in lifting of material in unauthorized manner. If such a stipulation does not exist in any Sale Order, the same may be incorporated.
- 2.3 However, absence of such a clause does not in any way restrict the right of Company (RAILTEL) to take action / decision under these guidelines in appropriate cases.
- 2.4 The procedure of (i) Removal of Agency from the List of approved suppliers/ contractors; (ii) Suspension and (iii) Banning of Business Dealing with Agencies, has been laid down in these guidelines.
- 2.5 These guidelines apply to Corporate Office, all Regions and Subsidiaries of RAILTEL.

2.6 It is clarified that these guidelines do not deal with the decision of the Management to avoid entertaining any particular Agency due to its poor / inadequate performance or for any other reason.

2.7 The banning shall be with prospective effect, i.e., future business dealings.

3. Definitions

In these Guidelines, unless the context otherwise requires:

- i) 'Party / Contractor / Supplier / Purchaser / Customer' shall mean and include a public limited company or a private limited company, a firm whether registered or not, an individual, a cooperative society or an association or a group of persons engaged in any commerce, trade, industry, etc. 'Party / Contractor / Supplier / Purchaser / Customer' in the context of these guidelines is indicated as 'Agency'.
- ii) 'Inter-connected Agency' shall mean two or more companies having any of the following features:
 - a) If one is a subsidiary of the other;
 - b) If the Director(s), Partner(s), Manager(s) or Representative(s) are common;
 - c) If management is common;
 - d) If one owns or controls the other in any manner;
- iii) 'Competent Authority' and 'Appellate Authority' shall mean the following:
 - a) For Company (entire RAILTEL) wide Banning: The Director shall be the 'Competent Authority' for the purpose of these guidelines. CMD, RAILTEL shall be the 'Appellate Authority' in respect of such cases except banning of business dealings with Foreign Suppliers of imported items.
 - b) For banning of business dealings with Foreign Suppliers of imported items, RAILTEL Directors Committee (RDC) shall be the 'Competent Authority'. The Appeal against the Order passed by RDC, shall lie with CMD, as First Appellate Authority.
 - c) In case the foreign supplier is not satisfied by the decision of the First Appellate Authority, it may approach Railway Board as Second Appellate Authority.
 - d) For RailTel Regions only: Any officer not below the rank of General Manager appointed or nominated by the Executive Director of concerned Region shall be the 'Competent Authority' for the purpose of these guidelines. The Executive Director of the concerned Region shall be the 'Appellate Authority' in all such cases.
 - e) For Corporate Office only: For procurement of items / award of contracts, to meet the requirement of Corporate Office only, Concerned Group General Manager / General Manager shall be the 'Competent Authority' and concerned Director shall be the 'Appellate Authority'.
 - f) CMD, RAILTEL shall have overall power to take suo-moto action on any information available or received by him and pass such order(s) as he may think appropriate, including modifying the order(s) passed by any authority under these guidelines.
- iv) 'Investigating Department' shall mean any Department or Unit investigating into the conduct of the Agency and shall include the Vigilance Department, Central Bureau of Investigation, the State Police or any other department set up by the Central or State Government having powers to investigate.
- v) 'List of approved Agencies - Parties / Contractors / Suppliers/ Purchaser/ Customers' shall mean and include list of approved /registered Agencies - Parties/ Contractors / Suppliers / Purchasers / Customers, etc.

4. Initiation of Banning / Suspension

Action for banning / suspension of business dealings with any Agency should be initiated by the department having business dealings with them after noticing the irregularities or misconduct on their part. Besides the concerned department, Vigilance Department of each Region / Unit/ Corporate Office may also be competent to initiate such action.

5. Suspension of Business Dealings

- 5.1 If the conduct of any Agency dealing with RAILTEL is under investigation by any department (except Foreign Suppliers of imported items), the Competent Authority may consider whether the allegations under investigation are of a serious nature and whether pending investigation, it would be advisable to continue business dealing with the Agency. If the Competent Authority, after consideration of the matter including the recommendation of the Investigating Department, if any, decides that it would not be in the interest to continue business dealings pending investigation, it may suspend business dealings with the Agency. The order to this effect may indicate a brief of the charges under investigation. If it is decided that inter-connected Agencies would also come within the ambit of the order of suspension, the same should be specifically stated in the order. The order of suspension would operate for a period not more than six months and may be communicated to the Agency as also to Investigating Department. The Investigating Department may ensure that their investigation is completed and whole process of final order is over within such period.
- 5.2 The order of suspension shall be communicated to all the departmental heads within the unit/ region/ Corporate Office as the case may be. During the period of suspension, no business dealing may be held with the agency.
- 5.3 As far as possible, the existing contract(s) with the Agency may continue unless the Competent Authority, having regard to the circumstances of the case, decides otherwise.
- 5.4 If the gravity of the misconduct under investigation is very serious and it would not be in the interest of RAILTEL, as a whole, to deal with such an Agency pending investigation, the Competent Authority may send his recommendation to Chief Vigilance Officer (CVO), RAILTEL Corporate Office alongwith the material available. If Corporate Office considers that depending upon the gravity of the misconduct, it would not be desirable for all the units/ regions of RAILTEL to have any dealings with the Agency concerned, an order suspending business dealings may be issued to all the units/ Regions / Corporate Office by the Competent Authority of the Corporate Office, copy of which may be endorsed to the Agency and all concerned. Such an order would operate for a period of six months from the date of issue.
- 5.5 for suspension of business dealings with Foreign Suppliers of imported items, following shall be the procedure:

- i) Suspension of the foreign suppliers shall apply throughout the Company/ Regions including Subsidiaries.
- ii) Based on the complaint forwarded by ED / GGM / GM or received directly by Corporate Vigilance, if gravity of the misconduct under investigation is found serious and it is felt that it would not be in the interest of RAILTEL to continue to deal with such agency, pending investigation, Corporate Vigilance may send such recommendation on the matter to Executive Director / GGM / GM, to place it before a Committee consisting of the following:
 - 1. ED / GGM/ GM (viz. Representative of Corporate Finance).
 - 2. ED / GGM/ GM (viz. Representative of Department concerned with procurement of imported items)- Convener of the Committee.
 - 3. ED / GGM/ GM (to be nominated on case to case basis).
 - 4. ED / GGM/ GM ((viz. Representative of Corporate Law).

The committee shall expeditiously examine the report and give its comments / recommendations within twenty-one days of receipt of the reference by ED/ GGM/ GM.

- iii) The comments / recommendations of the Committee shall then be placed by ED/GGM/GM, before RAILTEL Directors' Committee (RDC) constituted for import of items. If RDC opines that it is a fit case for suspension, RDC may pass necessary orders which shall be communicated to the foreign supplier by the ED/GGM/GM.

5.6 If the Agency concerned asks for detailed reasons of suspension, the Agency may be informed that its conduct is under investigation. It is not necessary to enter into correspondence or argument with the Agency at this stage.

5.7 It is not necessary to give any show-cause notice or personal hearing to the Agency before issuing the order of suspension. However, if investigations are not complete in six months time, the Competent Authority may extend the period of suspension by another three months, during which period the investigations must be completed.

6. Ground on which Banning of Business Dealings can be initiated

- 6.1 If the security consideration, including questions of loyalty of the Agency to the State, so warrants;
- 6.2 If the Director / Owner of the Agency, proprietor or partner of the firm, is convicted by a Court of Law for offences involving moral turpitude in relation to its business dealings with the Government or any other public sector enterprises or RAILTEL, during the last five years;
- 6.3 If there is strong justification for believing that the Directors, Proprietors, Partners, owner of the Agency have been guilty of malpractices such as bribery, corruption, fraud, substitution of tenders, interpolations, etc;
- 6.4 If the Agency continuously refuses to return / refund the dues of RAILTEL without showing adequate reason and this is not due to any reasonable dispute which would attract proceedings in arbitration or Court of Law;
- 6.5 If the Agency employs a public servant dismissed / removed or employs a person convicted for an offence involving corruption or abetment of such offence;
- 6.6 If business dealings with the Agency have been banned by the Govt. or any other public sector enterprise;
- 6.7 If the Agency has resorted to Corrupt, fraudulent practices including misrepresentation of facts;

- 6.8 If the Agency uses intimidation/ threatening or brings undue outside pressure on the Company (RAILTEL) or its official in acceptance/ performances of the job under the contract;
- 6.9 If the Agency indulges in repeated and / or deliberate use of delay tactics in complying with contractual stipulations;
- 6.10 Willful indulgence by the Agency in supplying sub-standard material irrespective of whether pre-dispatch inspection was carried out by Company (RAILTEL) or not;
- 6.11 Based on the findings of title investigation report of CBI / Police against the Agency for malafide/ unlawful acts or improper conduct on his part in matters relating to the Company (RAILTEL) or even otherwise;
- 6.12 Established litigant nature of the Agency to derive undue benefit;
- 6.13 Continued poor performance of the Agency in several contracts;
- 6.14 If the Agency misuses the premises or facilities of the Company (RAILTEL), forcefully occupies tampers or damages the Company's properties including land, water resources, etc.

(Note: The examples given above are only illustrative and not exhaustive. The Competent Authority may decide to ban business dealing for any good and sufficient reason).

7. Banning of Business Dealings

- 7.1 Normally, a decision to ban business dealings with any Agency should apply throughout the Company including subsidiaries. However, the Competent Authority of the Region/ Unit except Corporate Office can impose such ban Region-wise only if in the particular case banning of business dealings by respective Region/ Unit will serve the purpose and achieve its objective and banning throughout the Company is not required in view of the local conditions and impact of the misconduct/ default to beyond the Region/ Unit. Any ban imposed by Corporate Office shall be applicable across all Regions/ Units of the Company including Subsidiaries.
- 7.2 For Company-wide banning, the proposal should be sent by ED of the Region/ Unit to the CVO/RailTel setting out the facts of the case and the justification of the action proposed

Along with all the relevant papers and documents except for banning of business dealings with Foreign Suppliers of imported items.

The Corporate Vigilance shall process the proposal of the concerned Region/ Unit for a prima-facie view in the matter by the Competent Authority nominated for Company-wide banning.

The CVO shall get feedback about that agency from all other Regions/ Units. Based on this feedback, a prima-facie decision for banning / or otherwise shall be taken by the Competent Authority.

If the prima-facie decision for Company-wide banning has been taken, the Corporate Vigilance shall issue a show-cause notice to the agency conveying why it should not be banned throughout RAILTEL.

After considering the reply of the Agency and other circumstances and facts of the case, a final decision for Company-wide banning shall be taken by the competent Authority.

- 7.3 There will be a Standing Committee in each Region/ Unit to be appointed by Chief Executive Officer for processing the cases of "Banning of Business Dealings" except for banning of business dealings with foreign suppliers. However, for procurement of items/ award of contracts, to meet the requirement of Corporate Office only, the committee shall be consisting of General Manager/ Dy. General Manager each from Operations, Finance, Law & Project. Member from Project shall be the convener of the committee. The functions of the committee shall, inter-alia include:
- i) To study the report of the investigating Agency and decide if a prima-facie case for Company-wide / Region wise banning exists, if not, send back the case to the Competent Authority.
 - ii) To recommend for issue of show-cause notice to the Agency by the concerned department.
 - iii) To examine the reply to show-cause notice and call the Agency for personal hearing, if required.
 - iv) To submit final recommendation to the Competent Authority for banning or otherwise.
- 7.4 If the Competent Authority is prima-facie of view that action for banning business dealings with the Agency is called for, a show- cause notice may be issued to the Agency and an enquiry held accordingly.
- 7.5 Procedure for Banning of Business Dealings with Foreign Suppliers of imported items.
- i) Banning of the agencies, shall apply throughout the Company including subsidiaries.
 - ii) Based on the complaint forwarded by Executive Director or received directly by Corporate Vigilance, an investigation shall be carried out by Corporate Vigilance. After investigation, depending upon the gravity of the misconduct, Corporate Vigilance may send their report to Executive Director/ GGM/ GM, to be placed before a Committee consisting of the following:

1. ED / GGM/ GM (viz. Representative of Corporate Finance).
2. ED / GGM/ GM (viz. Representative of Department concerned with procurement of imported items)- Convener of the Committee.
3. ED / GGM/ GM (to be nominated on case to case basis).
4. ED / GGM/ GM ((viz. Representative of Corporate Law).

The Committee shall examine the report and give its comments/ recommendations within 21 days of receipt of the reference by ED.

- iii) The comments/recommendations of the Committee shall be placed by ED/ GGM/ GM before RAILTEL Directors' Committee (RDC) constituted for import of foreign items. If RDC opines that it is a fit case for initiating banning action, it will direct

ED/ GGM/ GM to issue show-cause notice to the agency for replying within a reasonable period.

- iv) On receipt of the reply or on expiry of the stipulated period, the case shall be submitted by ED to RDC for consideration & decision.
- v) The decision of the RDC shall be communicated to the agency by ED/GGM/GM concerned.

8. Removal from List of Approved Agencies – Suppliers / Contractors, etc.

- 8.1 If the Competent Authority decides that the charge against the Agency is of a minor nature, it may issue a show-cause notice as to why the name of the Agency should not be removed from the list of approved Agencies - Suppliers / Contractors, etc.
- 8.2 The effect of such an order would be that the Agency would not be disqualified from competing in Open Tender Enquiries but LTE (Limited Tender Enquiry) may not be given to the Agency concerned.
- 8.3 Past performance of the Agency may be taken into account while processing for approval of the Competent Authority for awarding the contract.

9. Show-cause Notice

- 9.1 In case where the Competent Authority decides that action against an Agency is called for, a show-cause notice has to be issued to the Agency. Statement containing the imputation of misconduct or misbehavior may be appended to the show-cause notice and the Agency should be asked to submit within 15 days a written statement in its defence.
- 9.2 If the Agency requests for inspection of any relevant document in possession of RAILTEL, necessary facility for inspection of documents may be provided.
- 9.3 The Competent Authority may consider and pass all appropriate speaking order:
 - a) For exonerating the Agency if the charges are not established.

- b) For removing the Agency from the list of approved Suppliers/ Contactors, etc.
- c) For banning the business dealing with the Agency.

9.4 If it decides to ban business dealings, the period for which the ban would be operative may be mentioned. The order may also mention that the ban would extend to the interconnected Agencies of the Agency.

10. Appeal against the Decision of the Competent Authority

10.1 The agency may file an appeal against the order of the Competent Authority banning business dealing, etc. The appeal shall lie to Appellate Authority. Such an appeal shall be preferred within one month from the date of receipt of the order banning business dealing, etc.

10.2 Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the Agency as well as the Competent Authority.

11. Review of the Decision by the Competent Authority

Any petition / application filed by the Agency concerning the review of the banning order passed originally by Chief Executive / Competent Authority under the existing guidelines either before or after filing of appeal before the Appellate Authority or after disposal of appeal by the Appellate Authority, the review petition can be decided by the Chief Executive / Competent Authority upon disclosure of new facts

/ circumstances or subsequent development necessitating such review. The Competent Authority may refer the same petition to the Standing Committee for examination and recommendation.

12. Circulation of the names of Agencies with whom Business Dealings have been banned

12.1 Depending upon the gravity of misconduct established, the Competent Authority of the Corporate Office may circulate the names of Agency with whom business dealings have been banned, to the Government Departments, other Public Sector Enterprises, etc. for such action as they deem appropriate.

12.2 If Government Departments or a Public Sector Enterprise requests for more information about the Agency with whom business dealings have been banned, a copy of the report of the Inquiring authority together with a copy of the order of the Competent Authority / Appellate Authority may be supplied.

12.3 If business dealings with any Agency have been banned by the Central or State Government or any other Public Sector Enterprise, RAILTEL may, without any further enquiry or investigation, issue an order banning business dealing with the Agency and its interconnected Agencies.

12.4 Based on the above, Regions / Units may formulate their own procedure for implementation of the guidelines.

* * * * *

(To be executed in presence of Public Notary on non-judicial stamp paper of the value of Rs. 100/-. The paper has to be in the name of the BA)

RailTel Corporation of India Limited, hereinafter referred to as “The Principal”.

And

....., hereinafter referred to as “The Bidder/ Contractor”

Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for.....

..... The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relations with its Bidder(s) and /or Contractor(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 - a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - b. The Principal will during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.
 - c. The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2- Commitments of the Bidder(s) / Contractor(s)

1. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - a. The Bidder(s)/contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage during tender process or during the execution of the contract.
 - b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
 - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s) /Contractors will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the bidder(s)/contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" as annexed and marked as Annexure A.
 - e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be

Section 3: Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process & exclude him from future business dealings as per the existing provisions of GFR,2017,PC ACT 1988) or take action as per the procedure mentioned in the “Guidelines on Banning of business dealings” and any other Financial Rules/Guidelines applicable to the Principal. Copy of the “Guidelines on Banning of business dealings” is annexed and marked as Annex-“B”.

Section 4: Compensation for Damages

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to be terminated the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5: Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.
2. If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process for action can be taken as per the procedure mentioned in “Guidelines on Banning of business dealings”.

Section 6: Equal treatment of all Bidders / Contractors/Subcontractors.

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a signed commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal Contractor shall take the responsibility of the adoption of IP by the sub- contractors. It is to be ensured that all sub-contractors also sign the IP.
3. In case of a Joint Venture, all the partners of the Joint Venture should sign the Integrity pact.
4. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions

Section 7: Criminal charges against violation by Bidder(s) / Contractor(s) / Sub contractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8: Independent External Monitor / Monitors

1. The Principal appoints competent & credible Independent External Monitors for this pact as nominated by the Central Vigilance Commission(CVC) Government of India, from the panel of IEMs maintained by it. The task of the Monitors is to review independently and objectively, whether and to what extent

2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, RailTel.
3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor.
4. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality.
5. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

Note : However, the documents /records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.

6. For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. The advice of the IEM panel is restricted to resolving issues raised by a bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders.
7. The panel of IEMs are expected to submit a joint written report to the CMD, RailTel within 30 days from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
8. Monitor shall be entitled to compensation on the same terms as being extended to / provided to Independent Directors on the RailTel Board.
9. The IEMs would examine all complaints received by them and give their recommendations/views to the CMD, RailTel at the earliest. They may also send their report directly to the CVO in case of suspicion of serious irregularities requiring legal/administrative action. Only in case of very serious issue having a specific, verifiable vigilance angle, the matter should be reported directly to the Chief Vigilance Commission.
10. The word 'Monitor' would include both singular and plural.
11. In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the organization may take further action as per the terms & conditions of the contract. However, not more than five meetings shall be held for a particular dispute resolution. The fees/expenses on dispute resolution shall be equally shared by both the parties.

Section 9: Pact Duration

Integrity Pact, in respect of a particular contract, shall be operative from the date IP is signed by both the parties till the completion of contract. After award of work, the IEMs shall look into any issue relating to execution of contract, if specifically raised before them. However, the IEMs may suggest systemic improvements to the management of the organization concerned, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.

In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the contract has been awarded.

If any claim is made / lodged by either party during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by CMD of RailTel.

Section 10: Other Provisions

1. This agreement is subject to Indian Law, Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices need to be made in writing.
3. If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. The parties signing the IP shall not approach the Courts while representing the matters to the IEMs and he/she will await the decision in the matter.
6. Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor
7. The Integrity pact shall be deemed to form a part of contract and parties shall be bound by it's provision.
8. Issues like warranty/guarantee etc. should be outside the purview of IEMs.

(For & on behalf of the principal)

(For & on behalf of bidder/contractor)

Name: _____

Designation: _____

Name: _____

Designation: _____

Signature:

Signature:

(Office Seal)

(Office Seal)

Place: _____
Date: _____
Witness 1:
(Name & Address)

Place: _____
Date: _____
Witness 1:
(Name & Address)

Witness 2:
(Name & Address)

Witness 2:
(Name & Address)

* * * * *

EMD BANK GUARANTEE FORMAT

EOI Ref No: _____ Date: XX-XX-XXXX

End Customer Tender Ref. No.: _____ Dated: XX-XX-XXXX on _____ portal

BID SECURITY (BANK GUARANTEE)

WHEREAS, [name of Bidder] (hereinafter called "the Bidder") has submitted his Bid dated [date] Selection of Implementation Partner from RailTel Empaneled Business Associate for exclusive POST-BID TEAMING ARRANGEMENT for the work of [name of Contract] (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that We [name of bank] of [name of country] having our registered office at _____ (Hereinafter called "the Bank") are bound unto RailTel Corporation of India Limited., 6th Floor, IIIrd Block, Delhi Technology Park, Shastri Park, Delhi-110053 [name of Employer] (hereinafter called "the Employer") in the sum of Rs. _____ (Rupees in words only) for which payment well and truly to be made to the said Employer the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of ____20XX. THE CONDITIONS of this obligation are:

1. If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified in the Form of Bid;
- OR
2. If the Bidder having been notified of the acceptance of his bid by the Employer during the period of Bid validity:
 - a. Fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required;
 - or
 - b. fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders;
 - or
 - c. does not accept the correction of the Bid Price;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or any of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date _____, _____ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

Date: _____

Signature of the bank: _____

Seal of Bank: _____

[Signature, name, and address] _____

{RailTel SFMS details –***BG advising message – IFN 760COV/ IFN 767COV via SFMS.******IFSC Code of ICICI Bank to be used (ICIC0000007). Unique reference (RAILTEL6103) in field 7037}.***

FORMAT FOR AFFIDAVIT TO BE UPLOADED BY BA ALONGWITH THE EOI DOCUMENTS

(To be executed in presence of Public notary on non-judicial stamp paper of the value of Rs. 500/-. The paper has to be in the name of the BA) **

I _____ (Name and designation)** appointed as the attorney/ authorized signatory of the BA (including its constituents), M/s _____ (hereinafter called the BA) for the purpose of the EOI documents for the work of _____ as per the EOI No. _____ of (RailTel Corporation of India Limited), do hereby solemnly affirm and state on the behalf of the BA including its constituents as under:

1. I/we the BA (s), am/are signing this document after carefully reading the contents.
2. I/we the BA(s) also accept all the conditions of the EOI and have signed all the pages in confirmation thereof.
3. I/we hereby declare that I/we have downloaded the EOI documents from RailTel website www.railtelindia.com. I/we have verified the content of the document from the website and there is no addition, no deletion or no alternation to be content of the EOI document. In case of any discrepancy noticed at any stage i.e., evaluation of EOI, execution of work or final payment of the contract, the master copy available with the RailTel Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. I/we also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6. I/we declare that the information and documents submitted along with the EOI by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7. I/we undersigned that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during process for evaluation of EOI, it shall lead to forfeiture of the EOI EMD besides banning of business for five years on entire RailTel. Further, I/we (insert name of the BA)** and all my/our constituents understand that my/our constituents understand that my/our offer shall be summarily rejected.
8. I/we also understand that if the certificates submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of EMD/SD and Performance guarantee besides any other action provided in the contract including banning of business for five years on entire RailTel.

DEPONENT

SEAL AND SIGNATURE OF THE BA

VERIFICATION

I/We above named EOI do hereby solemnly affirm and verify that the contents of my/our above affidavit are true and correct. Nothing has been concealed and no part of it is false.

DEPONENT

SEAL AND SIGNATURE OF THE BA

Place:

Dated:

**The contents in Italics are only for guidance purpose. Details as appropriate, are to be filled in suitably by BA. Attestation before Magistrate/Notary Public.

*FORMAT FOR QUANTITY BREAKUP FOR EI SYSTEM TO BE FURNISHED BY TENDERER***Table-1: Details to be submitted along with the Technical offer-**

S.N.	Description of Item	Unit	Name of Stn	Name of Stn	Name of Stn	Name of Stn	Total Qty.

Note:-No price information to be mentioned in this Table-1.

Table-2: Details to be submitted along with the Financial offer-

S.N.	Description of Item	Unit	Name of Stn	Name of Stn	Name of Stn	Name of Stn	Total Qty.	Base Rate	Total Amount

(Bidder shall furnish detail quantity breakup for the EI system offered against SOR item Sr no. 1 & 2 and ANS/1 & ANS/2 of Schedule-A)

Note:-

Bidder shall furnish detail quantity breakup for the EI system offered against **SOR item Sr no. 1 & 2 and ANS/1 & ANS/2 of Schedule-A)** according to the format given in Annexure-11 above. Table-1 to be provided in technical offer without any financial details. Table-2 to be provided with price break-up item wise in financial offer.

I/we clearly understand that I/we am/are not entitled to any other payment what so ever except at the tendered rate quoted against each item for fully completed works as per conditions of contract

Signature of Bidder

Name of Work: “Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuj Road Kuwanthal, Devgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in

Nathdwara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya - Nathdwara section of Ajmer division of North Western Railway”.

Scope of work (SoW):

This work involves supply of materials and execution of both indoor as well as outdoor works as per details mentioned in the schedule and technical requirement as detailed in the tender documents.

Technical Specifications of this tender includes many circuit features which are to be fulfilled by the circuits. Since circuit design in this case is being done by contractor, contractors liability will be to ensure that the circuit design fulfill all these requirements. The entire work is to be carried out in strict compliance to the tender conditions and specifications. The work is required to be done using Q-series relays as shown in Schedule of work.

Detail scope of work with Technical specification is as per Tender document of CoR.

COMPLETION PERIOD:- The entire work shall be completed within Sixteen (16) months from the date of issue of letter of acceptance.

TIME SCHEDULE

Time is the essence of the contract. With a view to complete the work within 16 months, the contractor is requested to observe the following time schedule in their own interest, so as to complete the work within the completion period stated above:

1	Submission of MOU with OEMs and call requests for RDSO/RITES inspection for the indoor & outdoor materials to be supplied by contractor.	Within 01 months after issue of LOA.
2	Submission of Cable route plan, Cable core chart, after conducting site survey & studying field requirement for all the stations. Submission of ST, CPD for Railway's approval after collecting approved ferro copy of the SIP from Railway.	Within 01 month after issue of LOA.
3	Commencement of cable laying and other outdoor work.	Within 02 months after issue of LOA.
4	Submission of design & Indoor wiring/ converted circuit for approval of Railway.	Within 03 months after issue of LOA
5	Commencement of Relay Room work & Other indoor works and power equipments for relay wiring & testing.	As soon as design is ready with the contractor but not later than 03 months after issue of LOA.
6	Completion of indoor wiring & testing by contractor.	Within 8 months after issue of LOA
7	Completion of all outdoor works which is possible before TWO.	Within 9 months after issue of LOA.

(Please refer latest copy of Tender document with Corrigendum floated by CoR at www.ireps.gov.in with Tender reference no. SnT-C-AII-24-02).



RailTel Corporation of India Limited
(A Government of India Enterprise, Ministry of Railways)

Financial Bid								
E - Tender Ref. No.:-				RCIL/NR/TM/JP/EOI/NWR/DY CSTE/Const/EI/AII-DIV/2024-25 DATED 10-02-2025				
Name of the work:				Design, Manufacture, Supply, Installation, Testing, & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver.2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhujia Road Kuwanthal, Devgarh Madariya & Nathwara Town stations along with supply, installation, testing & Commissioning of various indoor & outdoor signaling & Telecom Systems & gears.				
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule NS-Items							232949860.8	
Please see Item Breakup for details.				80130420.6		AT Par	80130420.6	
1	Description:- Design, Manufacture & Supply of Electronic Interlocking (EI) System (Centralized architecture) for station as per Signal Interlocking Plan in 'Hot Standby architecture'. EI system shall be provided to operate with dual VDU Control Terminal as per RDSO Specification No.RDSO/SPN/ 192/2019 Ver. 2 or latest and from RDSO approved source only. It mainly consist of Microprocessor Equipments, Interface Equipments, EI vendor specific Interfacing Relays , In-built event Logger, In-built Power Supply Equipments, Racks (Only Relay Rack/EI Rack), Indoor cables, Wires, Fuses , Fixtures, Mounting arrangements along with all accessories required to make complete EI system functional. Design of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. This item also includes supply of following :- (a) Supply of documents/manuals for EI system as per RDSO Spec.No. RDSO/SPN/192/2019 Ver.2 or latest. (b) Supply & provision of protective devices like surge and lightning protection devices compatible to RE standards as recommended by OEM / RDSO. (c) The system at all stations is to be commissioned with inbuilt Block instrument in EI itself including Nathdwara-Knakroli, Nathdwara- Nathdwara Town sections(if technically feasible) Nathdwara station has KSBMC Kyosan make EI system. This includes all the material which is required to make complete EI system functional with inbuilt Block instruments. (d) EI design should adhere to RDSO letter No: RDSO-SIGOMISC(GEN)/ 1/2021Part(1) Date: 17.08.2024. & Railway Board Letter No. 2018/Sig/18/ EI/Gen. New Delhi. Note: It includes supply of all the material which is required to make complete EI system to be functional and as recommended by RDSO in Specn.No.RDSO/SPN/192/2019 Ver. 2 or latest. Design , manufacture & Supply of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time.The Technical Requirements are attached with the tender document. Railway will supply RDSO approved type of relays with approved contact configuration only. In case of requirement of vendor specific relays/relays with non-RDSO approved contact configuration being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI (Electronic Interlocking) system and number & type of such relays shall be indicated separately. Inspection: RDSO, Inspection charges: Borne by Railways Payment terms:100% after supply (payment of design after commissioning)							
2	1	Station		4015178.344	4015178.344	AT Par	4015178.344	
2	Description:- Addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with dismantling of MG facilities at Mavli Junction and provision of inbuilt Block instrument in EI in Nathdwara-Mavli Jn section. Addition/alteration of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. Note (1): Railway will supply only RDSO approved type of relays. In case of requirement of any vendor specific relays for EI system being supplied, the same shall be supplied by the tenderer without any extra cost. (2): This item includes supply of all material required to make EI functional. (3) Re- designing of Application Logic & Interface circuits as per approved SIP. (4) Installation, programming, wiring, testing & commissioning of complete yard for data input and configuration, simulation & functional testing & commissioning of EI as per approved SIP. (5) Factory Acceptance Test & (Site Acceptance Test, if required by Railways) as per approved SIP & ST upto the satisfaction of Railways. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms: 100% after commissioning.							
3	1	Lot		4749112.953	4749112.953	AT Par	4749112.953	
3	Description:- Supply of the following essential spares to the extent of 10% of the quantities installed(subject to minimum 1 number):-(i) Each type of Input/output cards(ii) Each type of vendor specific relays(iii) DC-DC converters of all voltages (iv) Switches, connectors, fuses, couplers. Inspection: RDSO, Inspection charges: Borne by Railways Payment terms:100% after Supply (after commissioning as mentioned in TS)							
4	1	Station		514875.7958	514875.7958	AT Par	514875.7958	
4	Description:- Re-designing (addition/alteration) of EI programme, testing and commissioning for phase working as per approved signalling plan of aforesaid stations. It includes supply & installation of all types of cards, couplers, cables etc. required to make EI functional in all respect. Note 1: Railway will supply only RDSO approved type of relays. In case of requirement of vendor specific relays for EI system being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI and number & type of such relays shall be indicated separately. Note 2: (1) Re- designing of Application Logic & Interface circuits as per approved SIP in c/w Block alteration work.(2) Installation, wiring, testing & commissioning of complete yard for data input and configuration, simulation & functional testing & commissioning of EI. (3) Supply of ASMADE documents as per NWR practice and these shall be provided only for modified portion of work in the form of CD, Softcopy with one set of drawing (completion) in the regular A3 size print (hard copy). (4) Factory Acceptance Test & (Site Acceptance Test, if required by Railways) as per approved SIP & ST upto the satisfaction of Railways. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms: 100% after commissioning.							
5	9	Station		94908.88639	854179.9775	AT Par	854179.9775	
5	Description:- Design, preparation & supply of drawings in computer print copies and original tracing in AUTO CAD FORMAT for Electronic Interlocking at each station. After completion of the work, the completion drawings (04 sets) incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.							
6	14	Numbers		416568.8208	5831963.491	AT Par	5831963.491	
6	Description:- SIWTC of embedded fanless PC based VDU Control Terminal as per RDSO Specification No.RDSO/SPN/192/2005 with latest amendments & RDSO TAN no - STS/E/TAN/3007 version 1 dated 02.11.12. The display size of VDU shall be 55 inch. Note: (i) Technical Requirements mentioned in the tender document. (ii) One revolving chair should be supplied with Control Terminal. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms:80% after supply & 20% after commissioning.							
7	7	Numbers		401117.3773	2807821.641	AT Par	2807821.641	
7	Description:- SIWTC of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 55 inch. Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. (ii) One table of suitable size alongwith revolving chair should be supplied with Maintenance terminal. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms:80% after supply & 20% after commissioning.							
8	21	Numbers		158443.2585	3327308.428	AT Par	3327308.428	
8	Description:- SITC of Modular Power supply Arrangement for VDU as per HQ letter no. SG/184/1 (Vol. VII) dtd. 01.03.2024 (42" to 85") and Industrial PC (Embedded PC) with input and output redundancy arrangement and hot pluggable modules in set. One set Consists of :- 1. Input O-Ring diode Module with potential free-1 no contacts (PFC) for two 110V DC sources from IPS and Single 110V DC Bus. Quantity : 1 No. 2. Isolated Inverters (Master/Slave), Input 110 V DC, Output : 110V/120 V AC 500 VA Quantity : 2 Nos. 3. Isolated DC-DC Converters, Input 110V DC, Out Put 24V DC/10A , Quantity : 2 nos. 4.3U SS Rack with back Panel mother Board/front panel power connectors inverter auto changer over switch and all required over switch and all required protection circuits (3U height for main rack 132.5mm +/- 10% & 1U height for mounting 44.5mm +/-10%) Quantity: 1 No. (Total 4 items) Make: Gallant or Similar. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms: 80% after supply, 10% after installation & 10% after commissioning							
9	36000	Per Unit		108.8562348	3918824.453	AT Par	3918824.453	

	Description:- Termination of main, tail, Signaling and power cables on terminal/ fuse blocks in A/cases, CT boxes and in gate Lodges excluding CTR at RR. The work includes fixing of all cables by teakwood clamp on teakwood base plank, varnishing all teakwood items, fixing of terminals/fuse blocks on the terminal board/Phenolic sheet, drilling of necessary holes, termination of cables, wiring, earthing of armour of all cables on copper bus bar of 25mm X 3 mm of suitable length to fix it from left wall to right wall of A/case, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, painting/printing of particulars on sleeves and also on the inner side of the doors of A/cases. After terminations are over, the cable entry space/openings of A/case foundation shall be closed with brick work, cement plastered, the inter-space filled with river sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of Phenolic Sheet, Terminals and Fuse blocks are not covered in this schedule). [Cement, teakwood made cable clamp 50mm x 50mm, base planks 100mm x 25mm, PVC/Nylon sleeves, varnish, paints, slotted angles, bolts, nuts and washers, Aluminium cable tags, sealing compound, country bricks, copper bus bars for armour earthing, brass screw, river sand and other miscellaneous materials shall be supplied by the Contractor]. Note :- Termination/Writing work should be done in accordance with the policy circulated by RB vide L. No. 2023/Sig/17-Sig Equip/ Maintenance/Part dtd 06.11.2023 (as reproduced below)						
9	1.Conductor/wire labeling:Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core / Signaling function in Black with Yellow background) to be provided on each cable conductor., 2.Description details of Terminals : The Row of Screwless Disconnect Terminal I ARA Terminal shall be serially numbered as A, B, C, D .. from top and in each row, terminals shall also be serially numbered from left to right starting from 1., 3.The CT Details of Location Box (Location Termination Particulars) shall be prepared in AutoCAD/ any suitable software. One copy of CT details shall be fixed in the respective location box duly printed on a sun board of A3 Size or large (fixed in a S.S./Aluminium frame with acrylic/transparent front cover mounted on apparatus case door) and another laminated copy in plastic cover shall also be kept in the location box. 4.After every cable terminated in a row, there should be a minimum gap equivalent to 1-2 ARA terminal or minimum 06 Screwless Disconnect Terminals 5. Inside the Location Box, minimum clearance of bottom most terminal row shall be around 150mm from base of location box. The Centre to Centre Distance between two rows of Screwless Disconnect Terminal/ARA Terminal shall be around 18cm to 20cm or suitable gap between rows to be kept for cable entry holes and description writings 6.Location Box shall be numbered from its front side as well as Back side/side walls with black letter on yellow/white background. 7.The Cables terminated on Location Box shall be identified by punched labels / Cable Identification Tag tied on each end of the cable for correct identification. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after execution. {Measurement Unit: Per Unit= Per Terminal/Fuse Block/ARA Terminal/WAGO}						
	10	13500	Per Unit	104.4564768	1410162.437	AT Par	1410162.437
10	Description:- Termination of Main, Tail, Signalling and power cables and internal wiring on terminal/ fuse blocks in CTR at relay room. The work includes fixing of all cables by teakwood clamp on teakwood base plank, fixing of phenolic sheet/ladder for terminal board, varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, printing of particulars on sleeves. After terminations are over, cable entry at the bottom shall be closed with cement plastered, the interspace filled with sand up to base level and the bottom surface shall be sealed with sealing compound. Cable armour to be soldered to earth. (Supply of CTR, Terminals, Fuse blocks is not included in this schedule). [All bolts and nuts with washers, Phenolic laminated Sheet, grade P3 of size 10 mm Thick, cement, sand, stone jelly, copper bus bars for armour earthing, brass screw, Teak wood base /MS ladder, insulators, PVC/Nylon sleeves, CT Rack detail printed on vinyl/flex duly fixed on S.S. frame of size prescribed by engineer in charge, varnish, paints, Aluminium cable tags, sealing compound and all other miscellaneous materials required for the work shall be supplied by the contractor] Note: Termination/Writing work should be done in accordance with the policy circulated by RB vide L. No. 2023/Sig/17-Sig equip/Maintenance/Part dtd 06.11.2023 (as reproduced below) 1.Conductor/wire labeling: Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core / Signaling function in Black with Yellow background) to be provided on each cable conductor. 2.Description details of Terminals: The Row of Screwless Disconnect Terminal I ARA Terminal shall be serially numbered as A, B, C, D from top and in each row, terminals shall also be serially numbered from left to right starting from 1. 3.The Centre to Centre Distance between two rows of Screwless Disconnect Terminal / ARA Terminal shall be around 18cm to 20cm. After every cable terminated in a row, there should be a minimum gap equivalent to 1 ARA terminal or 02 spacers/dummy Screwless Disconnect Terminals. 4.The Cables terminated on CT rack shall be identified by punched labels/ Cable Identification Tag tied on each end of the cable for correct identification 5.Line wise and if necessary, function wise cables shall be provided as per para 15.1.2. (c) of IRSEM, 6.Minimum clearance of bottom most terminal in CT rack shall be normally 300mm from ground, 7.CT Racks Particulars (i.e., Function wiring and termination details) may be made using Vinyl Printing or Flex Printing on 300 GSM PVC banner roll of suitable size framed or any other means and shall be fixed on wall or CT Rack moveable board through suitable metallic frame (CT Board) adjacent to CT rack. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after execution. {Measurement Unit: Per Unit= Per Terminal/Fuse Block/ARA Terminal/WAGO}						
	11	7	Numbers	79173.32523	554213.2766	AT Par	554213.2766
11	Description:- Installation, wiring, testing and commissioning of Diesel Generator Set 12.5 KVA, Single Phase, 240V, 1500 RPM, 50 Hz, 20 BHP (minimum). This also includes all masonry work required for installation of DG set will be done by contractor under supervision/instructions of site engineer incharge. Note: DG set, AMF control panel, 12V/120 AH battery set battery charger of suitable rating to ensure self starting arrangement of DG sets, start/stop buttons, Volt/Ampere/Frequency meters and 63 AMP MCB (minimum) will be supplied by Railways. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after commissioning.						
	12	210	Sqm	1442.071793	302835.0765	AT Par	302835.0765
12	Description:- Supply of insulation mat (Rubber Mat) for electrical purpose 2.5mm thick size 2mx1m suitable for 3.3 KV to 11 KV (Class B) conforming to IS 15652-2006. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after Supply.						
	13	80	Numbers	16709.07206	1336725.765	AT Par	1336725.765
13	Description:- Fixing, wiring, testing & commissioning of Electrical Point Machine-220 mm stroke suitable for Thick Web Switches (TWS) on the extended sleepers at points as per standard railway practice as per RDSO Drg. No. S 3454 Alt 'A' or latest as per section of rails used. Item includes fixing of switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes wiring inside the point machine, termination of tail cable in point machine and junction boxes. The item includes supply and fixing of GI pipe (banded in S shape according to NWR practice) with flange for taking cable into point machine and fixing of Ward plates for points. Complete material for installation like GI pipes, wiring materials (wiring should be done with 4 mm flexible copper wire with lug), various fixing nuts & bolts including castle nuts, spring washers etc. will be supplied by the contractor. Ground connections, extension brackets, insulation material will be supplied by Railway. The item includes all smithy & fitting works required at site for complete installation of point machine. This includes modification- smithy work at site on the material supplied by the Railway if desired. Installation of gauge tie plate & providing insulation for gauge tie plate will be done by Railways. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after commissioning.						
	14	7	Numbers	252747.7959	1769234.571	AT Par	1769234.571
14	Description:- Supply, fabrication, installation and fixing of panel operator console with arrangement to fix upto 55" VDUs - 2Nos. Reset boxes, and other S&T gadgets. This shall be made of not less than 18mm thick plywood/ novopan or better materials with storage facility of approved colors with contractors' materials, lead, lift and manpower as per the instructions of engineer incharge and as per the enclosed drawing with One Chair (Godrej Make) Model Aero Mid Back Synchro Chair or superior, as approved by Engineer incharge. Modification in size & layout is permissible as per site & room requirement. Finishing work to be done as per instruction of engineer incharge. Inspection: Consignee Inspection charges: None Payment Terms: 100% after execution.						
	15	592	Numbers	5299.255192	3137159.073	AT Par	3137159.073
15	Description:- Supply and Installation of earth electrode including MS flat for signalling equipments on lever frame, apparatus cases, signal, relay racks, cable termination rack, block instrument etc. (supply & installation of earth electrode as per drawing no. RE/S&T/DRG/ Tender/SK/398/94 for apparatus cases, signal post & other equipments as per instruction on earthing of S&T equipment. Laying of earth lead mild steel flat of size 35mmx6mm and fixing of lead MS flat to earth electrode and lever frame, signal post & apparatus cases as per Drg. No. CORE/S&T/ALD/SK/591/2008, 592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment and providing cement enclosure for earth electrode as per drawing no. RE/S&T/Sig./Tender/SK/13/85 Alt. A) Laying of earth lead mild steel flat of size 35mmx6mm and fixing of lead MS flat to earth electrode and lever frame, signal post & apparatus cases as per Drg. No. CORE/S&T/ALD/SK/591/2008, 592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment and providing cement enclosure for earth electrode as per drawing no. RE/S&T/Sig./Tender/SK/13/85 Alt. A) Note: This item requires for earthing of all the A/Cases & Signal as per RE standard. Inspection: Consignee, Inspection Charges: None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning						
	16	3	Numbers	57267.2679	171801.8037	AT Par	171801.8037
16	Description:- SITC of RO (Membrane based) De-ionized water plant. Technical specifications for water plant are as follows:- 1. Discharge of water (purified) - 10-15 Litre/Hour 2. Accepted TDS - 0-5 ppm (mg/Litre) with zero Hardness. 3. Accepted pH- 6.5 to 7.2 4. Total output of water in one Installation - 15000-20000 Litre. 5. Specific electrical conductivity at 25C - 0 to 5.0 (Max) micromhos per cm. 6. Mounting Type - Wall hanging in a Mild steel (Powder coated) cabinet of good quality. 7. Warranty Period - 1 Year 8. Operating Voltage - 24VDC/230V AC. 9.Service - on demand for one year from installation date. 10.Display Feature- Online TDS meter is required in cabinet which displays the TDS of discharge water from De-ionizedwater plant. It also includes the supply of a storage tank of capacity of 200 litre with the plant of reputed make only and one spare TDS meter is to be provided with each set. The switching of plant should be automatic, onfilling of tank it will shut down. It also includes supply of all the necessary items for making the plant functional. Note : - Test reports as per specifications mentioned should be attached alongwith the Consignee Inspection: Consignee Inspection Charges: Nil Payment Terms: 80% after supply & 20% after commissioning.						
	17	7	Station	304931.7078	2134521.955	AT Par	2134521.955
17	Description:- SITC of VHF based secured communication equipment consisting of micro controller based equipment with built in Voice/Data storage facilities. 25W VHF radio with talking instrument, power supply (12V DC/15Amp) sealed maintenance free battery bank 12V/120AH, Omni directional stacked dipole antenna, 50 mtr length RG-217 cable, including portable programingand data backup terminal. Make -AE Telelink as per RDSO specification no.RDSO/SPN/TC/73/2008 Ver. 1.0 with latest amendments. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after commissioning.						
	18	8	Station	7782.203066	62257.62453	AT Par	62257.62453
18	Description:- Fixing of GP antenna for 25W VHF set on the roof of ASM office, connection of the antenna with 30 meter coaxial cable, supply and fixing of wooden stand on the wall of ASM room for VHF set, SMPS at all the stations in the section. Note: Supply of 25W VHF set, Coaxial cable will be done by Railways and all the other material like (i) 12V/100AH battery, (ii) 50mm dia GI pipe of suitable length, (iii) wooden stand wall mounting of size 18"x12" for VHF, SMPS & battery (iv) PVC conduit pipe 25mm of length will be supplied by the contractor. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.						
	19	7	Numbers	34315.24145	240206.6901	AT Par	240206.6901

19	Description:- Supply of Dual RS232 to E1 Converter card suitable to insert in the data logger euro rack for interlinking data loggers installed at various stations. One number per data logger is required which converts voice to E1 channel at stations. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.						
20	20	280	Metre	267.09642	74786.9976	AT Par	74786.9976
20	Description:- Supply & installation of copper tape 25x3mm for perimeter bonding in S&T rooms as per RDSO Drg. No. SDO/RDSO/E&B/001 or latest. Inspection: Consignee, Inspection Charges: None Payment Terms: 80% after supply & 20% after installation.						
21	21	700	Square Foot	56.3346792	39434.27544	AT Par	39434.27544
21	Description:- Preparation, supply and fixing of flex banner board on iron frame for displaying Do & Don't, yard layout, at a glance etc in SM room, IPS room, maintenance room, Telecom Room etc. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.						
22	Please see item			27061985.9	AT Par	27061985.9	
22	Description:- SITC of Remote Diagnostic and Predictive Maintenance system (RDPMS) for signalling gears comprising of IoT based data acquisition from fiels gears, data analysis, generation of reports and real time messaging of exception reports based on machine learning/artificial intelligence confining to RDSO/RDPM/FRS/2021 dtd. 06.05.2021 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
23	23	24	Month	13358.53635	320604.8724	AT Par	320604.8724
23	Description:- Provision of fully furnished Camp Office (2-3 BHK) at site for SSE/JE/ESM for supervision of work. The contractor will provide the storage safe for protection of important tender related documents i.e Inspection certificate/ Contract Agreement/ SIP/ SWRD/ CRP/ ST/ CP etc. It includes all cost of electric, water & cleaning of camp office. The payment will be done only after giving full satisfactory certificate signed by SSE/JE. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after execution.						
24	24	37	Month	47178.05395	1745587.996	AT Par	1745587.996
24	Description:- Providing chautikdar at various location in section for look after the material at nominated depot decided by engineer incharge for 3 shifts/day with all labour expenses complete. (For stations, This item will be operated after commissioning of station till handing over of station to open line and for depot it will be as per requirement of railways). Note: Rate covers the charges of 03 watchman per day/month at one location. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after execution.						
25	25	2	Numbers	879.7916088	1759.583218	AT Par	1759.583218
25	Description:- Supply of Smoke Detector Tester Spray 200 ml Make Aerol or similar Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.						
26	26	2	Numbers	10164.33871	20328.67742	AT Par	20328.67742
26	Description:- SITC of change over 200 Amp., 03 phase, 415VAC, 50Hz (side handle), 4 pole. Make Havel's IHCFFE 200 or superior. Inspection: Consignee Inspection Charges: None Payment Terms: 80% after Supply & 20% after installation.						
27	27	7	Numbers	4464.607766	31252.25436	AT Par	31252.25436
27	Description:- Supply of true RMS Type AC/DC Mini clamp meter measuring range 1 MA to 100 Amp AC/DC current and voltage 600VDC/DC with F.F.C. Function facility, Model-4673, Make-Mettravi/Fluke or similar. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
28	28	700	Numbers	21.2699412	14888.95884	AT Par	14888.95884
28	Description:- Supply of PPTC electronic fuse X30-UF250 30V 4 AMP. Make TYCO or similar. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
29	29	24	Per Unit	58432.10161	1402370.439	AT Par	1402370.439
29	Description:- Supply of one skilled and two un-skilled staff round the clock to attend to teething trouble of the installation along with JE/SE/SSE after the installation has been brought into commissioning. The work includes routine maintenance, failure restoration as per the direction of the JE/SE/SSE. (Per Unit = Per Month). The details of manpower deputed will be informed in writing with submission of verified credentials details like Aadhar card, police verification etc. will also be submitted if asked by Railways. Qualification & experience of skilled staff will be submitted for approval by Railways. This item will be operated on need basis as per Railway requirement. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution						
30	30	7	Numbers	6743.637968	47205.46578	AT Par	47205.46578
30	Description:- Supply of High standing table having iron bar legs, wooden/plywood top, powder coated metal work and polished wooden work (height 40 to 48 inch, Length 42 inch, width 30 inch). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
31	31	35	Per Unit	6487.874258	227075.599	AT Par	227075.599
31	Description:- Dismantling and re-installation of Track Devices of Digital Axle Counter coil at site for Engineering works like Packing, Rail Changing etc. after installation of Digital Axle Counter at Site by OEM to avoid damage. (Here per Unit means per DP). Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.						
32	32	177	Numbers	283830.344	50237970.89	AT Par	50237970.89
32	Description:- Supply of Multi section digital axle counter (MSDAC) complete set with all accessories consisting of complete indoor and outdoor equipment as per RDSO specification no. RDSO/SPN/176/2013 (ver. 3) with latest amendmend/revision of required track section. It includes transportation of material to SSE depot and from SSE depot to site. (1 Number =1 DP) Note: 1 If any vendor specific system requires provision of location box for housing of track side electronics or any equipment except central evaluator/CPU system, then these additional location boxes will be provided by contractor at their own cost. 2 . Item includes supply of all material required for earthing arrangement of DPs as per RDSO guideline /OEM requirement. 3. Automatic resetting will be provided by providing soft supervisory track section as per scheme plan. All hardware software for auto resetting to be provided by the contractor. 4. All other hardware like extra cards modem etc. required for commissioning will be supplied by the contractor. Separate Evaluator (2 Nos per station) to be provided at each station as decided by the site engineer. 5. It also includes Diagnostic Computer per station for 5 stations to monitor line MSDAC DPs and system as per Specifications attached in technical specifications 6. If expansion/ augmentation is required in existing IPS/New IPS in connection with power supply requirement of MSDAC system, the additional DC-DC converter & connectors/ terminals, etc. shall be provided by contractor at his own cost. 7. System includes central evaluators, processors, final track clearance relays for each track section, Reset Boxes, Monitoring consoles, Diagnostic Computer (As per Specifications attached in technical specifications), LV boxes, detection points, mushroom housing for track side electronics, deflector plates and all other accessories as per RDSO's specification No. RDSO/SPN/176/2013 (Ver.3) with latest amendment/revision Inspection: RDSO (However, items not covered under RDSO inspection will be inspected by consignee with manufacturer certificate) Inspection Charges: Will be borne by Railways Payment Terms: 100% after supply.						
33	33	177	Numbers	9910.663772	1754187.488	AT Par	1754187.488
33	Description:- Installation, testing and commissioning of Multi Section Digital Axle Counter (MSDAC) complete set with all accessories consisting of complete indoor and outdoo equipment including reset boxes, track side electronics, track devices and monitoring console etc as per RDSO Specification No. RDSO/SPN/176/2013 (ver. 3) with latest amendmend/revision of required track section. (Measurement Unit: Number=Per DP) Note: This items covers all the works related to execution to make the complete MSDAC system functional. All accessories required for commissioning will be provided by the contractor. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
34	34	7	Numbers	53189.55441	372326.8809	AT Par	372326.8809
34	Description:- Supply of LED indication system with indication, buzzer & acknowledgment button up to 06 line station with interface facility to existing datalogger and modification of data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection: RITES Inspection Charges: Nil. Payment Terms: 100% after supply						
35	35	7	Numbers	9064.025896	63448.18127	AT Par	63448.18127
35	Description:- Testing & commissioning of LED indication system with indication, buzzer & acknowledgment button up to 06 line station with interface facility to existing data logger and modification of data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.						
36	36	55	Numbers	15660.26753	861314.714	AT Par	861314.714
36	Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn. G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
37	37	8	Numbers	133661.2793	1069290.235	AT Par	1069290.235
37	Description:- Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 75 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 100 Amps, automatic switching between the modules as per RDSO Spec No. RDSO/SPN/TC/23/1999 version 4 or latest along with two potential free contacts. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% on supply.						
38	38	8	Set	119729.0323	957832.2586	AT Par	957832.2586

38	Description:- Supply of 48Volt/300AH maintenance free VRLA Batteries fully charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
39	39	8	Set	20185.31641	161482.5313	AT Par	161482.5313
39	Description:- Installation, wiring, testing & commissioning of 48Volt/300AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
40	40	35	Numbers	20932.54642	732639.1249	AT Par	732639.1249
40	Description:- Supply & installation of Optical fiber cable termination box for 48 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/APC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/APC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
41	41	35	Numbers	21502.84395	752599.5381	AT Par	752599.5381
41	Description:- Supply & installation of Optical fiber cable termination box for 24 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/APC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/APC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
42	42	14	Numbers	75156.43506	1052190.091	AT Par	1052190.091
42	Description:- Supply of way station control equipment as per RDSO Spec. No. RDSO/SPN/TC/ 66/2007 with Amdt. 2 or latest with necessary mounting arrangement on composite rack or on wall as decided by site engineer. It shall be 48V DC operated, provide to give connect to at least 04 station telephone and have a facility to give more connections by using 03 way amplifier. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
43	43	16	Numbers	11451.58346	183225.3354	AT Par	183225.3354
43	Description:- Wiring, testing, installation & commissioning of way side equipment on the rack per station wise. (This includes supply of all materials for execution of work except way station equipment). Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after commissioning.						
44	44	9	Numbers	635214.8835	5716933.951	AT Par	5716933.951
44	Description:- Design, Fabrication & Supply of 1 rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 160 Gbps, unit to support L2VPN, L3 VPN, MPLS- TE, unit to be capable to support 8x10Gbe, 48x1Gbe, 64XE1, 12xSTM1 ports or 2x8 port WD, support multiple routing functions such as OSPF V3, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back up. The router should have console and SNMP interface, FAN Module, control card module and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 4x10Gbe, 8x1Gbe, 16 Els and 4xStm-1 interface modules from day one . The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver1.0 or latest for the LER Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
45	45	2	Numbers	650624.8803	1301249.761	AT Par	1301249.761
45	Description:- Design, Fabrication & Supply of rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 160 Gbps, unit to support L2VPN, L3 VPN, MPLS- TE, unit to be capable to support 8x10Gbe, 48x1Gbe, 64XE1, 12xSTM1 ports or 2x8 port WD support multiple routing functions such as OSPF, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back 7 up. The router should have console and SNMP interface, FAN Module, Redundant control card modules and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 8x10Gbe interface modules from day one. The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver1.0 or latest for the LSR Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
46	46	11	Numbers	20150.385	221654.235	AT Par	221654.235
46	Description:- Installation of IP MPLS Router and switches, with power distribution panel and all accessories in the Rack (19" 42 U), DDF, Aluminium runway ladder, patchcord etc and their testing and commissioning. This includes termination of all E1s on DDF, connection of pigtails, optical patch cords and 48 V bus to the IP/MPLS equipment including supply of wires and connectors. It also includes proper mounting of rack, provision of Aluminium runway ladder, casing and capping and conduit pipe as per requirement at each station, other materials from stores supplied by Railways for installation. (Conduit pipe/ casing and capping, aluminium runway ladder and all other miscellaneous materials should be supplied by the contractor). Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after installation.						
47	47	9	Numbers	101505.7147	913551.4319	AT Par	913551.4319
47	Description:- Supply and installation of 16 port E1 Card along with Patch panel/Krone Module and wiring for Routers with all accessories etc. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after installation						
48	48	20	Numbers	24761.06473	495221.2947	AT Par	495221.2947
48	Description:- Supply of 4 port x10G SFP (optical) module card suitable for the IP-MPLS router . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply						
49	49	18	Numbers	26239.44564	472310.0215	AT Par	472310.0215
49	Description:- Supply 8 port x 1 Gbe (4 no. of optical port and 4 no electrical port) module card suitable for IP-MPLS Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
50	50	4	Numbers	43979.09213	175916.3685	AT Par	175916.3685
50	Description:- Supply of 8 port x10G SFP(optical) module card suitable for the IP-MPLS LSR router . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
51	51	2	Numbers	77908.95922	155817.9184	AT Par	155817.9184
51	Description:- Supply of channelized STM-1/4 (4 port STM-1 or one port STM-4) card or 2 nos of 4/8 port x 10Gbps WDM interface module card suitable for LER/LSR along with 2 nos of SFPs (1.2 Gbps or 2.5GBps) as per site requirement Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
52	52	9	Numbers	140650.646	1265855.814	AT Par	1265855.814
52	Description:- Integration, testing and final commissioning of all IP-MPLS equipments, switches etc, at each station for all the equipment confirming with the approve system design including end to end testing for realization of optical fiber system. This also includes supply of all AS made documents for the entire section (six copy) plus technical, maintenance and installation manual for IP/MPLS (LER & LSR), NMS, Switches, Charger and Power Supply Unit. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
53	53	68	Numbers	9603.649548	653048.1693	AT Par	653048.1693
53	Description:- Supply of SFP (1310nm) 1.25 GBPS as pe the site requirement for electrical 10/100/1000 MBPS support as per site condition. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
54	54	1	Numbers	1258686.324	1258686.324	AT Par	1258686.324
54	Description:- Supply & installation of NMS as per RDSO spec no. STT/TAN/IP-MPLS/2020 Ver. 2.0 or latest for Zonal/Divisional HQ, NOC with active standby system hardware and 5KVA online UPS with 1 hour backup (min 42AH battery) of APC/Numeric/Tata Libert make). This includes supply of 5 nos. portable monitoring terminal / PC workstation loaded with NMS for client for the sectional maintenance as per technical specification. One table of suitable size alongwith revolving chair, laser printer should be supplied with each terminal. Approval of make & model of portable monitoring terminal / PC workstation, furniture & Printer should be taken in advance before supply of these material from Railway. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after installation.						

	55	9	Numbers	3004.750285	27042.75257	AT Par	27042.75257	
55	Description:- Supply of DC power distribution panel to cater DC power Requirement of ipmpls/STMPD MUXES/EOW/FAN to be fixed in 19" rack. (Minimum 8 nos of DC distribution arrangement with MCB's of suitable rating for -ve connecting copper strip for +ve) Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
	56	9	Numbers	2404.169986	21637.52987	AT Par	21637.52987	
56	Description:- Supply of DDF (120 ohms) for terminating 16 EIs of wrapping type and mountable on 19" rack (Maximum width 2U size). Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
	57	5	Man-Week	15112.78653	75563.93264	AT Par	75563.93264	
57	Description:- Training of railway staff & officers at factory premises/railway site of manufacturer of IP-MPLS equipment or at reputed training institution as approved by Railway executive incharge. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.							
	58	18	Numbers	200236.0709	3604249.275	AT Par	3604249.275	
58	Description:- Supply of OFC integrated access device 1U height or 1.5U height/19" rack mountable for LVCD/Digital axle counter purpose; Optical module integrated in the unit supporting dual core OFC and one 100Mbps ethernet port for surveillance/smoke detector/optical distance support to be 20Kms/unit to support one E&M module supporting four 2W/4W (each port configurable) to support axle counter/UFSBI/Control phone/EC/RTU; and one TELNET/SNMP port; unit to support DC/AC power supply;unit to support change over mechanism between quad and optical fiber for E&M interface option; one number cable to be provided along with unit for E&M; FABIO/2CX/ OFC/DC & Module2W/4W four port:make:TEAM ENGG/ FABIO/WAVES or similar/TANSY. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.							
	59	5	Numbers	18494.24498	92471.22491	AT Par	92471.22491	
59	Description:- Supply of 53-Piece Telecommunication Tool Set consists of (1) 1Pc Standard Digital Multi Meter. (2) 4Pc Phillips Screwdrivers: #1x75, #1x150, #2x45, #2x100 mm. (3) 4Pc Slotted Screwdrivers: 3x75mm, 3X150, 6.5x45, 6.5x100 mm. (4) 1Pc Tape - 3m. 1Pc Utility Knife. (5) 1Pc Diagonal Pliers 6". (6) 1Pc Linesman Pliers 8". (7) 1Pc Mini hacksaw. (8) 1Pc Adjustable Wrench 10". (9) 1Pc Wire Stripper 9". (10) 10Pc Hex Key set 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8,10 min. (11) 1Pc Spinner Handle. (12) 1Pc 1/4" Drive Adapter. (13) 13Pc 1/4" Drive 6 Point Sockets : 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10,11, 12, 13, 14mm. (14) 6Pc Precision Screwdriver Set OPT, 1PT, 1.4PT, 1.8mm, 2.3mm, 3.0mm. (15) 1Pc Soldering iron. (16) 1Pc Solder. (17) 1Pc Desoldering Pump. (18) 1Pc Digital Tester. (19) 1Pc Tweezers. (20) 1Pc Blow Mould Case. Make & model Stanley STH789883-812 or similar. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.							
	60	2	Numbers	4639.842572	9279.685145	AT Par	9279.685145	
60	Description:- Portable hand held electric air blower Make:-Dewalt, Bosch, Stanley. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.							
	61	24	Numbers	1376.519843	33036.47623	AT Par	33036.47623	
61	Description:- Supply of push button telephone Pulse/Tone switchable telephone setwith redial, mute, pause, flash tone, pulse facility as per TEC spec No. GR/TEL-02/04 Sept 02 with amendment 2, including latest amendment. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply							
	62	16	Numbers	3305.338196	52885.41114	AT Par	52885.41114	
62	Description:- Supply & fixing of 20/24 pair C.T. Box fitted with WAGO make or similar Disconnect type Terminal blocks (Knife type cage clamp technology [Screwless] with spring loaded contact) having disconnection and reconnection facility, WAGO terminal should suitable for termination of cable from 0.4mm to 0.9mm dia. PUJF/Quad cable [Indoor type]. Inspection: Consignee. Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.							
	63	120	Numbers	1349.321339	161918.5607	AT Par	161918.5607	
63	Description:- Fabrication and erection of Emergency Rail post complete with Emergency socket box ade of FRP material as per Spec. No. RDSO/SPN/TC/44/2002 Ver.2 (With latest amendment) and its wiring along side the Rly. Track at locations to be indicated by the engineer (Rail post shall be supplied by Railway and issued to the contractor for execution. Emergency Socket & Emergency socket box will be procured through separate schedule of this contract and issued to the contractor for execution). All other items shall be supplied/arranged by the contractor. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after execution.							
	64	120	Numbers	805.5468036	96665.61643	AT Par	96665.61643	
64	Description:- Fixing of Emergency socket box made of FRP material as per Spec. No.RDSO/SPN/TC/44/2002 Ver.2 (With latest amendment) at locations to be indicated by the engineer. Emergency Socket & Emergency socket box will be procured through separate schedule of this contract and issued to the contractor for execution). All other items shall be supplied/arranged by the contractor. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after execution.							
	65	16	Numbers	4357.120345	69713.92552	AT Par	69713.92552	
65	Description:- Supply of GSM 4G FCT Phone with 4G Connectivity (Fixed cellular phone) with built in battery and extendable battery charger. Make: Binatone or similar or latest Accepted Make:- beetal modal F03-4G Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply							
	66	7	Numbers	1145.261452	8016.830161	AT Par	8016.830161	
66	Description:- Writing work of cable termination details of 6 Quad, OFC, PUJF Cablesand Equipment details at OFC Room/Cable hut and station building and wherever necessary as perdirection of engineer in charge per station. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after execution.							
	67	125	Numbers	392.4406368	49055.0796	AT Par	49055.0796	
67	Description:- Supply of 06 pin emergency plug and socket as per RDSO spec no. RDSO/SPN/42/2020 Ver. 1.1 or latest. (This item should be compatible with FRP socket box covered in SOR schedule). Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply.							
	68	8	Numbers	114561.3877	916491.1013	AT Par	916491.1013	
68	Description:- SITC of PRS/UTS router fully loaded having 4 serial, 4 ethernet port modules & serial cable for connectivity between V.35 modem and router with on site warranty of three years. Make/brand CISCO 4221 or similar. Inspection: Consignee. Inspection Charges: None. Payment Terms: 80% after supply & 20% after commissioning.							
	69	1600	Metre	599.967	959947.2	AT Par	959947.2	
69	Description:- Supply of High Density Polyethylene Pipes (HDPE) of 110 mm HDPE Outer Dia, 10 mm Wall Thickness, along with one coupler for every 6 Meters as per specification No.IS 4984: 2016 with latest amendments and Material Grade:PE 80. Inspection: RITES. Inspection Charges: Will be borne by Railways. Payment Terms: 80% after supply & 20% after commissioning.							
	70	15	Lot	9901.01097	148515.1646	AT Par	148515.1646	
70	Description:- Supply of CAT-6 500 MHz STP cable roll of 305 meter length/roll/bundle, compliant with latest EIA/TIA-568-B-2-1 standard. Make Aambernet/DC6C/AUTP3X/Digilink or similar. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
	71	2050	Metre	15.4302624	31632.03792	AT Par	31632.03792	
71	Description:- Supply of 1" dia heavy duty PVC conduit ISI mark /HDPE duct withaccessories like bend, tee, saddle, elbowetc. required during installation & fixingthe same.. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
	72	2050	Metre	6.6307464	13593.03012	AT Par	13593.03012	
72	Description:- Fixing ofPVC Conduit pipes 25 mm (1") dia with all required fixing accessories (such as bends, metal clamp, fixture etc. as per instruction by consignee. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.							
	73	4270	Metre	27.1718388	116023.7517	AT Par	116023.7517	
73	Description:- Laying of communication cable (OFC/CAT-6)/ 2 core shielded/screened multi strand cable with one inch dia PVC conduit pipe/HDPE pipe from centralized control console unit to LEDbased Train Indication Board, Coach Guidance Boards etc inside platform shelter area and outside platformshelter area. On the platform shelterwith adequate protective measures. The rate includes laying and installation/clamping charges of PVCpipe/HDPE pipe with protective arrangements in addition to laying ofcommunication cable. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.							
	74	1	Numbers	668708.9968	668708.9968	AT Par	668708.9968	
74	Description:- Supply of Central Data Controller (CDC) with all accessories including Central Data Switch as per RDSO spec. no. RDSO/SPN/TC/108/2019 Rev. 1.0 or latest for IP based Integrated Passenger Information system (IPIS) loaded with operating software as per RDSO specification. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.							
	75	1	Numbers	10760.24371	10760.24371	AT Par	10760.24371	

75	Description:- Installation, testing & commissioning of Central Data Controller (CDC) with all accessories including Central Data Switch as per RDSO spec. no. RDSO/SPN/TC/108/2019 Rev. 1.0 or latest for IP based Integrated Passenger Information system (IPIS) loaded with operating software as per RDSO specification. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
	76	12	Numbers	6079.558939	72954.70727	AT Par	72954.70727
76	Description:- Supply & Installation of 19" 9U rack wall/pole mount with front door glass type, all doors should be removable type with all accessories like two exhaust fans, one AC multiple (6 nos of 6 Amp. socket), earthing strip copper etc. Inspection: Consignee Inspection Charges: Nil Payment Terms: 80% after supply & 20% after installation.						
	77	1	Numbers	624094.1352	624094.1352	AT Par	624094.1352
77	Description:- SITC of 5 Line outdoor, multiline Train Information display Board as per RDSO Spec. No. RDSO/SPN/TC/108/2019 Rev. 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
	78	3	Numbers	220826.7694	662480.3082	AT Par	662480.3082
78	Description:- SITC of double face Train formation At a Glance Display Board (AGDB) as per RDSO spec no: RDSO/SPN/TC/108/ 2019 Ver 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
	79	2	Numbers	184332.7589	368665.5178	AT Par	368665.5178
79	Description:- SITC of Single line double faced TrainArrival/Departure Display Boards as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
	80	56	Numbers	29346.11921	1643382.676	AT Par	1643382.676
80	Description:- Supply of Double Faced Coach Guidance Display Boards as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
	81	10	Numbers	3912.815894	39128.15894	AT Par	39128.15894
81	Description:- Installation & commissioning of Double Faced Coach Guidance Display Boards in shade area This includes all required accessories required including hanging structure for fixing arrangements to commissioning the item. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
	82	42	Numbers	7825.631789	328676.5351	AT Par	328676.5351
82	Description:- Installation & commissioning of Double Faced Coach Guidance Display Boards in open area This includes all required accessories including hanging structure, pole and fixing arrangements to commissioning the item. Rain hood/sun guard should be provided in open area for display boards Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
	83	2	Numbers	38932.51637	77865.03274	AT Par	77865.03274
83	Description:- SITC of Platform Data Controllers per RDSO/SPN/TC/108/ 2019 Ver 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
	84	700	Metre	27.9895716	19592.70012	AT Par	19592.70012
84	Description:- Supply of Single Mode 6 Fibre Armoured Optical Fibre Cable. Make MOLEX/AMP/FINOLEX or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
	85	1	Numbers	146661.9332	146661.9332	AT Par	146661.9332
85	Description:- SITC of On-Line UPS 5 KVAwith battery back up of minimum 4 hrswith battery trolley of reputed makelike APC/Uni-line or other reputedmake with similar or better specs. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after commissioning.						
	86	5	Numbers	6126.614129	30633.07064	AT Par	30633.07064
86	Description:- Supply of self supported aluminium flatstep ladder (Confirming of ISI) 10 ft.height. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
	87	1	Numbers	154137.1753	154137.1753	AT Par	154137.1753
87	Description:- Supply & installation of remote monitoring server for IPIS as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
	88	4	Numbers	459263.628	1837054.512	AT Par	1837054.512
88	Description:- Supply of television of size 86" Professional, Smart LED UHD Display MODEL: Sony/Samsung or similar Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.						
	89	4	Numbers	86351.46374	345405.855	AT Par	345405.855
89	Description:- Supply of work station / Desktop / All in One Desktop for working on network as per Technical Specifications given in tender document. It also includes supply of Laser Printer (Only branded). Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.						
	90	4	Numbers	1010.326651	4041.306605	AT Par	4041.306605
90	Description:- Supply of HDMI 10 meter cable (Supporting 2.0). Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.						
	91	2	Numbers	61329.96	122659.92	AT Par	122659.92
91	Description:- Supply of OFC branching card (SOT 18) compatible for Tejas TJ1400 STM-1 along with two numbers of compatible SFP. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after supply						
	92	3	Numbers	68174.028	204522.084	AT Par	204522.084
92	Description:- Supply of XA14ET card compatible with TJ 1400 to support / connect 32 Ei 120 Ohm LFH male cable to drop tributary and two No Optical ports interface for support of STM TJ 1400. Note: XA14ET card should be compatible with existing Tejas-TJ-1400 Make / Brand : TEJAS Networks Limited, Gurugram (Warranty Period : Upto 30 months from the date of supply) Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after supply						
	93	1	Numbers	15859.82988	15859.82988	AT Par	15859.82988
93	Description:- Addition/alteration in existing data logger which includes wiring, validation, software updation/modification at station and its associate LC gates if any as per approved drawings. This includes supply of wire & wiring from intermediate tag block to the data logger (if required). This item includes shifting of DATALOGGER to another room (if required) as per site feasibility. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.						
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount
Schedule SOR-Items							188174923.9
	1010500	7	Station	555271.2184	3886898.529	AT Par	3886898.529
1	Description:- Installation, wiring, testing and commissioning of EI System with 'Hot Standby' architecture as supplied upto 6 (six) line station. It includes transportation of material from consignee's depot to the site, erection and grouting of EI Relay Racks, fixing and wiring of all the interfacing relays (Vital & Non-Vital), installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached with tender document (ii) Contractor has to arrange simulator/simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signalling function.(iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time. Inspection: Consignee Inspection charges: None Payment terms: 100% after commissioning						
	1010900	8	Station	77233.73413	617869.8731	AT Par	617869.8731

2	Description:- Supply of Work station note book as per Technical Specifications . It also includes supply of Laser Printer (Only branded). The workstation should be capable of reconfiguring the system in case of any alteration in yard interlocking in future. Technical Specifications should be attached with the tender document by Tendering authority. Inspection: Consignee Inspection charges: None Payment terms: 100% after supply						
3	1011100	2	Set	111770.4478	223540.8957	AT Par	223540.8957
3	Description:- Supply of Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations . (This includes tools required for EI maintenance sorts of crimping, insertion, removal, general purpose tools like screw drivers, spanners, PCB extractor, temp. controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying case/ holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at site). Each set comprises of the following :- * Crimping tool for all types of special cable assembly used in EI system. * Insertion tool for all types of special cable assembly used in EI system. * Removal tool for all types of special cable assembly used in EI system. * Digital multimeter (Fluke 111 or better) * Steel cabinet/ Almira. Size: 1980mm height, 915 mm width and 485 mm depth (Godrej Make/Jalaram) of good quality to store tool, spare cards and documents. * Steel Book rack Size: 1850mm height, 900 mm width and 316 mm depth for keeping documents. (Godrej Make/Jalaram) * Clamp Earth Tester.(as per specs mentioned in tender document.) * Clamp Current Meter (fluke 362 or superior) Inspection: Consignee Inspection charges: None Payment terms: 100% after supply						
4	1011200	20	Man-Days	983.2614732	19665.22946	AT Par	19665.22946
4	Description:- Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution						
5	1012100	8	Station	3198.597401	25588.77921	AT Par	25588.77921
5	Description:- Preparation of SWR literature in english alongwith associated mid-section interlocked gate with all corrections as per approved SWRD & approved SIP. For this all technical corrections, editing, grammatical correction etc. are to be carried out and one rough print to be given to railways for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in format provided by Rly. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
6	1012200	8	Station	3980.385511	31843.08409	AT Par	31843.08409
6	Description:- Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software) as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. 1.21 of Chapter 1 of this SOR. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
7	1012300	48	Set	158.6757168	7616.434406	AT Par	7616.434406
7	Description:- Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
8	1012400	14	Set	20431.65842	286043.2179	AT Par	286043.2179
8	Description:- Supply of maintainer's furniture of godrej make or superior and each set consist of(i) executive revolving bearing series low back-floating chair with normal arms cushioned chair-01 Nos. (ii) Executive table size 1650x900x728 mm with 3 drawers one side locker- 01 no (iii) visitor chair seat & back cushion with high density foam with plastic pvc handle capsule type painted back-03 nos. Inspection: Consignee Inspection charges: None Payment terms:100% after supply.						
9	2010200	7	Numbers	431962.8007	3023739.605	AT Par	3023739.605
9	Description:- Supply of Micro Processor based Data Logger System with 1280 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/Canon). It includes supply of all the items required for complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes supply relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD , IPS, UFSBI, BI interlinking and networking of Data logger. It also includes supply of leased line MODEM , suitable online UPS (mimumm 6 hours backup) and other interfacing cards, if required for networking of Data Logger. This also includes supply of one no. composite computer and printer table (Godrej work station table or similar) for keeping processor module and one number Godrej operator chair Model PCH7001 or similar. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
10	2010300	7	Numbers	107990.7002	755934.9013	AT Par	755934.9013
10	Description:- Installation, wiring, testing & commissioning of Micro Processor based Data Logger System with 1280/ 4096 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest It cover complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets,ELD , IPS,UFSBI, BI interlinking and networking of Data logger. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor.. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Networking of data logger includes extraction of data report from test room. For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of data logger by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre- Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
11	2010600	2	Numbers	165471.5563	330943.1127	AT Par	330943.1127
11	Description:- Supply of Micro Processor based Remote Terminal Unit (RTU) with 128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/Canon). It includes supply of all the items required for complete indoor relay room wiring from RTU to relay rack tag blocks, drawing/extension of power supply upto RTU. It includes supply of relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD (if installed) , IPS, interlinking and networking of RTU. It also includes supply of leased line MODEM , suitable online UPS (minimum 6 hours backup) and other interfacing cards, if required for networking of RTU. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
12	2010700	2	Numbers	41367.89353	82735.78706	AT Par	82735.78706
12	Description:- Installation, wiring, testing & commissioning of Micro Processor based Remote Terminal Unit (RTU) with 128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 or latest. It cover complete indoor relay room wiring from RTU to relay rack tag blocks, drawing/extension of power supply upto RTU. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets, ELD (if installed) , IPS, interlinking and networking of RTU. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor.. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Networking of RTU includes extraction of data report from test room. For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of RTU by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre- Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
13	2011400	7	Numbers	145733.6464	1020135.525	AT Par	1020135.525
13	Description:- Supply of Failure Analysis System (FAS) as per Technical Specifications. The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee Inspection charges: Borne by Railways Payment terms:100% after supply						
14	2011500	7	Numbers	36433.40939	255033.8657	AT Par	255033.8657
14	Description:- Installation, testing and commissioning of Failure Analysis System (FAS) as per Technical Specifications. The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee, Inspection charges: None Payment terms: 100% after commissioning						
15	2011800	2	Set	21669.03925	43338.0785	AT Par	43338.0785
15	Description:- Supply of T-Networking equipments suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose e.g. modems and network accessories. Inspection: Consignee, Inspection charges: None Payment terms:100% after supply						
16	2011900	2	Set	5417.25759	10834.51518	AT Par	10834.51518
16	Description:- Commissioning of T-Networking suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose. Inspection: Consignee, Inspection charges: None Payment terms:100 % after commissioning						
17	2012000	7	Numbers	23332.05	163324.35	AT Par	163324.35
17	Description:- Supply of						

19	3011600	56	Numbers	4277.826929	239558.308	AT Par	239558.308	
	Description:- Supply of DC neutral line relay QNA1K , AC immune, DC neutral line 24V, 6F/6B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS:931A & RDSO letter no STS/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest.The interlocking code for this unit shall be ""CDEKY""". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.							
19	3010300	5	Numbers	1861.150964	9305.754822	AT Par	9305.754822	
	Description:- Supply of Relay fail safe electronic time delay device with fixed timing (0 @ 45<41@ seconds and conforming to RDSO Specn.No.IRS:S-61/2000 with Ammd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc.The interlocking code for this unit shall be ""AFHKY""". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.							
20	3012500	42	Numbers	8390.6496	352407.2832	AT Par	352407.2832	
	Description:- Supply of Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with ease. RDSO spec no. RDSO/SPN/219/2016 ver 1.0 or latest, conforming to IRS S-23, S-34 & S@ 45<44@ IRS S-46. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.							
21	4010700	7	Station	33893.38021	237253.6614	AT Par	237253.6614	
	Description:- Supply of wiring material in relay room for potential free relay contacts for digital & analog Inputs (1280 digital inputs and 32 analog inputs). It includes supply of PVC insulated indoor Railway Signalling cable (1/0.6 sqmm dia), 60-Core/40-Core/Single Core as per RDSO Specn.No.IRS:S- 76/89(Ammd.3) or latest, PVC insulated jumper wires multi strand, tinned in all colours as per RDSO Specn.No. IRS: S-76/89 (Ammd.3) or latest. The item also includes supply & wiring of Modular disconnect terminals /Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751 or latest. The wiring for getting potential free contacts of relays for complete PI/RR/EI installation including points, tracks, signals, panel, power supply, IPS, SSDAC,TLBLLC Gates, crank handle control etc will be done by contractor. All material will be supplied by contractor except the relays. The Relays will be supplied by Railway. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Installation & commissioning							
22	4011100	10	Numbers	41236.87851	412368.7851	AT Par	412368.7851	
	Description:- Supply of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. The relay racks shall be supplied & completed with scaffolding, bus bars, fuse strips, fuses (G/NDT), fuse bases, resistors, capacitors, insulators and 200- Way tag blocks with poly carbonate covers, grouting bolts, tripods etc. It includes supply of Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751. The top of relay racks will be supported through an angle iron with one side fixed on supporting wall. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply							
23	4011200	10	Numbers	10309.21963	103092.1963	AT Par	103092.1963	
	Description:- Erection of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. The relay racks shall be completed with scaffolding, bus bars, fuse strips, fuses (G/NDT), fuse bases, resistors, capacitors, insulators and 200-Way tag blocks with poly carbonate covers, grouting bolts, tripods etc. It includes fixing of Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751. The top of relay racks will be supported through an angle iron with one side fixed on supporting wall. After installation of relay racks, one coat of paint will be done by contractor before fixing the fuses. Scaffolding should include 1 relay rack position as spare at every Station/ Level Crossing Gate for future expansion. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on execution							
24	4011300	30	Numbers	20205.4753	606164.2591	AT Par	606164.2591	
	Description:- Supply of Cable Termination (CT) racks as per Drg.No.CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals / ARA terminals not covered under this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply							
25	4011400	30	Numbers	7721.459741	231643.7922	AT Par	231643.7922	
	Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on N W R & the instruction of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on commissioning.							
26	4011500	47000	Numbers	77.6935044	3651594.707	AT Par	3651594.707	
	Description:- Supply of ARA Terminal Block (M-6) made of PBT/Poly Carbonate as per RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest and RDSO Drg.No. SA-23741A(Alt. 4) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.							
27	4011600	1900	Numbers	135.9747432	258352.0121	AT Par	258352.0121	
	Description:- Supply of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. 4) or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.							
28	4011900	1900	Numbers	48.5662176	92275.81344	AT Par	92275.81344	
	Description:- Supply of round head type non-deteriorating type low voltage cartridge fuse as per RDSO Specn.No.IRS:S-78/92 or latest and Capacity - 2/4/6/10A/16A/20A Amp. (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.							
29	4012801	18600	Numbers	48.5573292	903166.3231	AT Par	903166.3231	
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)							
30	4012802	18600	Numbers	9.1017216	169292.0218	AT Par	169292.0218	
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End plate for item 4.28(i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement.							
31	4012803	617	Numbers	9.1017216	5615.762227	AT Par	5615.762227	
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End Stopper for item 4.28(i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement.							
32	4012804	400	Metre	95.0881032	38035.24128	AT Par	38035.24128	
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Carrier Rails for item 4.28(i) of Chapter 4 of revised SOR 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.							
33	4012805	18600	Numbers	14.1592212	263361.5143	AT Par	263361.5143	
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Markers strip for item 4.28(i) of Chapter 4 of revised SOR							
34	4013400	50	Per Unit	26023.11976	1301155.988	AT Par	1301155.988	
	Description:- Supply of Fuse auto changeover system for Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 32 nos. of external Non Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. Inspection:(i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges:(i)Borne by Railways (ii) None Payment Terms: 100% after supply. (Per Unit should be read as Per Module)							
	4013500	10	Per Unit	42917.66607	429176.6607	AT Par	429176.6607	

35	Description:- Supply of Fuse auto changeover system for Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 24 nos. of external Non Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges: (i)Borne by Railways (ii) None Payment Terms: 100% after supply. (Per Unit should be read as Per Module)						
	4013600	60	Per Unit	787.0144896	47220.86938	AT Par	47220.86938
36	Description:- Installation wiring testing and commissioning of Fuse change over system (FACS). This includes provision of common Buzzer & indication at ASM Room & ESM Duty Room and painting of fuse details. This also includes fabrication of frame for installation of FACS at Station/ LC gate where installation of relay racks not feasible. Inspection: Consignee Inspection charges: None Payment Terms: 100% on commissioning(Per Unit should be read as Per Module)						
	5011401	7	Numbers	91950.39134	643652.7394	AT Par	643652.7394
37	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contractors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution For Station						
	5011402	1	Numbers	32524.60216	32524.60216	AT Par	32524.60216
38	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contractors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution For LC gate/IBS/ ALH Hut/ Portacabin						
	5012400	7	Numbers	108746.2764	761223.9348	AT Par	761223.9348
39	Description:- Supply of Self Regulating Type Battery Charger,230V AC/110V DC, 50 Amps as per RDSO Specn.No.IRS:S-86/2000 (Amnd.4) or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply						
	5012601	567	Numbers	1838.058901	1042179.397	AT Par	1042179.397
40	Description:- Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply. 2V, 80 AH						
	5012000	3	Numbers	34185.04416	102555.1325	AT Par	102555.1325
40	Description:- Supply of Self Regulating Type Battery Charger,230V AC/24V DC, 25 Amps as per RDSO Specn.No.IRS:S-86/2000 (Amnd.4) or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply						
	5012602	60	Numbers	5035.687466	302141.248	AT Par	302141.248
41	Description:- Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply. 2 V, 200 AH						
	5012701	567	Numbers	329.7774168	186983.7953	AT Par	186983.7953
42	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 80AH						
	5012702	60	Numbers	876.0318156	52561.90894	AT Par	52561.90894
43	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 200AH						
	5015800	7	Numbers	59545.25816	416816.8071	AT Par	416816.8071
44	Description:- Supply of active lightning arrester of Class A for building protection as per standard NFC-17-102. It shall work on early streamer emission principle & shall be made of stainless steel with a T of 60 microseconds. Non resettable type counter shall also be supplied to count the number of lightning occurrences. It also includes supply of electrolytic copper tape of 25mmX2mm or better for connecting class A device to the earth pit. This include installation, testing and commissioning of Class A device on the top of the building. This device shall be installed at suitable height on the roof of the building using a GI mast as per instructions of Railway engineer at Site. The device shall be connected to earth pit using a copper tape of 25mm x 2mm or better. This copper tape shall be run firmly only the site of the mast with the help of spacers. It shall also be ensured that the down conductor shall not touch the building throughout. the down conductor shall be connected to the earth electrode using exothermic welding. A counter shall be installed at appropriate space to count the number of occurrence. All the accessories like spacers, welding material etc. required for installation shall be arranged by the contractor. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
	6010800	50	Numbers	100981.1124	5049055.62	AT Par	5049055.62
45	Description:- Supply of ELECTRIC POINT MACHINE ROTARY LOCKING TYPE HIGH THRUST OF 220 MM THROW. AC IMMUNITY 160 VOLT AC, NON - TRAILABLE TO OPERATE ON 110 V DC COMPLETE WITH LOCK AND DETECTOR SLIDES AND CABLE TERMINATION BOX, AS PER RDSO SPECIFICATION NO. IRS : S- 24/2002 AMENDMENT - 1 OR LATEST AS PER DRAWING.NO. RDSO/S-11000 WITH EXTERNAL CLAMP POINT LOCK AS PER DRG. NO. RDSO/S-3395 AND WITH COMPLETE SET OF GROUND CONNECTIONS WITH NYLON INSULATIONS AS PER DRG. NO. RDSO/S-3454 FOR 60Kg RAILS. THICK WEB SWITCH. LATEST ALTERATIONS IF ANY ARE APPLICABLE TO BOTH DRAWINGS. This includes supply of Set of tools as per para20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) or latest 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less.i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 alongwith compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.						
	7010100	203	Numbers	4004.330861	812879.1647	AT Par	812879.1647
46	Description:- Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.						
	7010200	203	Numbers	1279.191863	259675.9481	AT Par	259675.9481
47	Description:- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161-66/M or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
	7010300	189	Per Track Circuit	5647.698248	1067414.969	AT Par	1067414.969
48	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, B type choke etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make terminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays, ARA terminal/Modular terminals wago/phoenix contact type will be supplied by Railways / covered in Schedule separately). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
	7010400	189	Per Track Circuit	7068.855636	1336013.715	AT Par	1336013.715

49	Description:- Installation of DC track circuits covering all types of Track circuits including points zones also.The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of 7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint(if required), fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. In case Engineer at site desires that jumpering from TLJBs is to be done using signalling cable 2 coreX 2.5 sqmm , contractor shall provide the jumpering cable using 2 X 2.5 sqmm signalling cable. The signalling cable will be supplied by Railways. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item does not include includes supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs Installation of of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. (a) Installation and commissioning of TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (verticall two for each FRP angle) HDPE pipe , cable etc. (b) Installation and commissioning of Each TLJB having two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be wired and fixed properly. (c) Installation of HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) Installation of the FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts.The TLJB and the angles for stump should be fixed in given holes on them for fixing using galvanised nuts and bolts . Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
	7010500	1134	Numbers	1580.713056	1792528.606	AT Par	1792528.606
50	Description:- Supply of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. The technical specifications are as follows: (a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (verticall two for each FRP angle) HDPE pipe , cable etc. (b) Each TLJB shall have two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be supplied. (c) HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts.The TLJB and the agles for stump should come alongwith holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied alongwith TLJB drawing no. 11509. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	7010700	392	Numbers	3643.30183	1428174.317	AT Par	1428174.317
52	Description:- Supply of B Type Choke as per RDSO Speen.No.IRS:S-65/83 (Amnd. 1) or latest. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after supply.						
	7011100	35	Numbers	228.6185364	8001.648774	AT Par	8001.648774
53	Description:- Supply of Hydrometer, Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
	7012301	1	Set	92728.29522	92728.29522	AT Par	92728.29522
54	Description:- Supply of Tools Kit for High frequency Digital Axle Counter Multi section Supply of Service test panel including meter for test of track equipment, tools for mounting and adjustment of track equipment and standard jig for drilling holes in rail. It should be as per Principal manufacturers (OEM) recommended list adequate for installation, day to day maintenance, and adjustment of indoor and outdoor gears. This shall also include kit for making and drilling of holes on rail.Detail Specification of tools kit are provided in tender document. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
	7012302	1	Set	78437.58792	78437.58792	AT Par	78437.58792
55	Description:- Supply of Tools Kit for High frequency Digital Axle Counter Multi section Supply of Portable operator console for onsite programming of Axle Counters as per technical requirement given in tender document. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
	7012404	14	Set	232184.918	3250588.852	AT Par	3250588.852
56	Description:- Supply of spares for High frequency Digital Axle Counter Multi section Supply of Double Rail contact assembly with track side EJB for MSDAC. Each set shall consist of track side Electronic unit, Double rail contact with cable and mounting accessories. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	7012600	7	Set	17776.6489	124436.5423	AT Par	124436.5423
57	Description:- Installation testing & commissioning of High Availability Single Section digital axle counter (HASSDAC) single section type system complete with track devices and other associated accessories. This include fixing of device, relays, wiring, lacing /dressing, cable termination with lug eyelet, drilling holes in rails, Installation of track devices and make it functional along with existing UFSBI/blockinstrument. Material required other then supply item of HASSDAC in item no. 7.25 of SOR shall be arranged by contractor to make it functional. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
	7013000	2	Set	112765.8509	225531.7017	AT Par	225531.7017
58	Description:- Supply of Standard Tool kits, Test and Measuring instruments required for Installation, testing, commissioning & maintenance of HASSDAC. Kit will includes all tools & measuring instruments as per ANNEXURE (Annexure shall be attached with Tender Document) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	8010400	500	Numbers	159.0045876	79502.2938	AT Par	79502.2938
59	Description:- Installation of LED signals lamps for auxiliary/subsidiary signals/main signals (i.e. route, shunt , calling on, Red , Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
	8010500	118	Numbers	9591.881306	1131841.994	AT Par	1131841.994
60	Description:- Supply of Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 =1 No , Number plate clamps to Drawing No. S 23148 Alt.1 =2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1.(1No), Platform to Drawing No. SA 23134 Alt.1.(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.)/Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extant NWR Practice. Note: Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	7014100	2	Numbers	7156.175278	14312.35056	AT Par	14312.35056
60	Description:- Supply of hand operated track drilling machine for bonding hole. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
	8010600	14	Numbers	3966.439612	55530.15456	AT Par	55530.15456
61	Description:- Supply of Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	8010801	13	Numbers	2868.864426	37295.23754	AT Par	37295.23754
62	Description:- Erection of CLS Post with base and signal unit on top or on Offset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3/4/5/6 or multilamp lamp route indicators/Stencil type rout indicator mounted on signal post.						
	8010802	97	Numbers	1944.275281	188594.7023	AT Par	188594.7023
63	Description:- Erection of CLS Post with base and signal unit on top or on Offset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted mounted directly on signal post.						
	8010900	53	Numbers	23792.56689	1261006.045	AT Par	1261006.045

64	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
65	8011000	65	Numbers	24925.54458	1620160.397	AT Par	1620160.397
65	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
66	8011200	27	Set	3819.763235	103133.6073	AT Par	103133.6073
66	Description:- Supply of Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA- 23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
67	8011300	27	Numbers	1582.126312	42717.41041	AT Par	42717.41041
67	Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
68	8011400	12	Numbers	2985.195805	35822.34966	AT Par	35822.34966
68	Description:- Supply of Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item)Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
69	8011500	12	Numbers	1749.032687	20988.39224	AT Par	20988.39224
69	Description:- Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
70	8011600	1	Numbers	17630.97691	17630.97691	AT Par	17630.97691
70	Description:- Supply of Junction route indicator unit 1 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23401 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
71	8011700	14	Numbers	18212.64269	254976.9977	AT Par	254976.9977
71	Description:- Supply of Junction route indicator unit 2 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23402 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
72	8011800	2	Numbers	21377.90859	42755.81719	AT Par	42755.81719
72	Description:- Supply of Junction route indicator unit 3 ways (Without Lenses & Holder) as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
73	8012400	14	Numbers	2266.968643	31737.561	AT Par	31737.561
73	Description:- Supply of Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv) Alt1 suitable to LED Signal Lighting Unit. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
74	8012600	14	Numbers	2066.677438	28933.48413	AT Par	28933.48413
74	Description:- Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply of bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /A' sign/ 'AG' sign unit as per standard practice. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
75	8012800	14	Numbers	4122.226598	57711.17238	AT Par	57711.17238
75	Description:- Supply of Different warning Boards / Calling on Board used for Railway Signalling system as per RDSO Drg. No. SA2380 (Adv). This includes Painting and retro reflective arrangement should be as per SEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
76	8012900	14	Numbers	297.405864	4163.682096	AT Par	4163.682096
76	Description:- Fixing of Stop Board, Block section limit Board, Shunting Limit Board, goods warning board , Calling on Board with contractors own material. This excludes supply of Stop Board / Block section limit Board / Goods warning board/Calling on board. The work shall be done as per instruction of Rly Engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
77	8013000	42	Numbers	1087.460186	45673.32783	AT Par	45673.32783
77	Description:- Supply, Fabrication and fixing of Signal Number Plate/ CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
78	8013200	118	Numbers	8320.87566	981863.3279	AT Par	981863.3279
78	Description:- Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
79	8013300	27	Numbers	5608.811498	151437.9105	AT Par	151437.9105
79	Description:- Casting of C.C. Foundation for Position Light Shunt Signal/ Indicator/SPI as per Drg.No.CSTE/NWR/SOR/ 22 in ratio 1:3:6 by using standard size of galvanized holding down/foundation bolts. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor. Note: As per available site conditions, if sizes of foundations are required to be decreased/ increased and same has been approved/agreed by engineer incharge then variation in CC work will be calculated on volumetric basis as per rates of these items. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation. .						
80	8013100	14	Numbers	4522.106826	63309.49556	AT Par	63309.49556
80	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
81	8013400	6079	cum	3843.210834	23362878.66	AT Par	23362878.66
81	Description:- Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.(Unit is per cubic meter)						
82	9010100	3	Set	385312.1489	1155936.447	AT Par	1155936.447
82	Description:- Supply of Electrically Operated Lifting Barrier complete set suitable for 110VDC/24V DC (option to be specified in tender specifically of either 110 V DC or 24V DC)supply without hand generator back up & motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting 02 Nos of Barriers of length 09.76 Mtrs. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2 as below 10.1 Following spares shall be supplied alongwith each set (02 nos.) of Electric lifting barrier as per requirement of the purchaser i) GI boom - 1 no. complete. ii) Belt - 1 no. iii) Crank handle - 1 no. iv) Motor Contactor - 1 no. v) Motor protection MCB- 1 no. vi) Push button complete- 2 nos. vii) Limit switch - 3 nos. (1 lever type and 2 top roller type) viii) Fuses used - 2 sets 10.2 Tool kit consisting of standard sizes of winch/ spanner and Allen keys should also be supplied with each set (02 nos.) of Electric Lifting barrier. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
	9010200	3	LC Gate	41543.92829	124631.7849	AT Par	124631.7849

83	Description:- Installation, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing, wiring etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning						
84	9010400	3	Set	4612.119653	13836.35896	AT Par	13836.35896
85	9010600	2	Set	121565.6602	243131.3204	AT Par	243131.3204
86	9010700	2	LC Gate	13606.87825	27213.75649	AT Par	27213.75649
87	9010800	2	LC Gate	26121.2477	52242.49539	AT Par	52242.49539
88	9011200	1	Set	51792.33349	51792.33349	AT Par	51792.33349
89	9011300	1	Numbers	6249.594031	6249.594031	AT Par	6249.594031
90	10011400	21	Numbers	14462.68895	303716.468	AT Par	303716.468
91	10011700	7	Numbers	44589.85853	312129.0097	AT Par	312129.0097
92	10011800	7	Numbers	11147.46686	78032.26799	AT Par	78032.26799
93	10011900	7	Numbers	4770.662044	33394.63431	AT Par	33394.63431
94	10012000	7	Numbers	1192.663289	8348.643022	AT Par	8348.643022
97	10012100	98	Numbers	2433.155058	238449.1957	AT Par	238449.1957
98	10012200	98	Numbers	608.2865424	59612.08116	AT Par	59612.08116
99	10012300	14	Numbers	2546.91769	35656.84765	AT Par	35656.84765
100	10012400	14	Numbers	636.7294224	8914.211914	AT Par	8914.211914
101	10012500	7	Numbers	47646.55263	333525.8684	AT Par	333525.8684
102	10012600	7	Numbers	11911.63816	83381.4671	AT Par	83381.4671
103	10012700	800	Metre	532.6462584	426117.0067	AT Par	426117.0067
104	10012800	800	Metre	133.1660088	106532.807	AT Par	106532.807
105	10012900	7	Numbers	22389.73739	156728.1617	AT Par	156728.1617

	10013000	7	Numbers	5597.434346	39182.04042	AT Par	39182.04042	
106	Description:- Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.							
	10013100	7	Set	102426.1885	716983.3193	AT Par	716983.3193	
107	Description:- Supply of Air Sampling Type detector shall use LASER type. This type of detector shall use piping or tubing distribution network that shall run from the detector to the area as to be protected. It should be supplied with required module & Power supply unit complete as a system with all accessories like pipes, Sampling points etc as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
	10013200	7	Set	25606.54712	179245.8298	AT Par	179245.8298	
108	Description:- Installation ,Testing and Commissioning of Air Sampling Type detector (it shall use LASER type) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning							
	10013300	14	Numbers	5720.503133	80087.04386	AT Par	80087.04386	
109	Description:- Supply of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
	10013400	14	Numbers	1430.125783	20021.76096	AT Par	20021.76096	
110	Description:- Installation, testing and commissioning of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.							
	10013500	7	Lot	24286.98414	170008.889	AT Par	170008.889	
111	Description:- Supply of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
	10013600	7	Lot	6071.746036	42502.22225	AT Par	42502.22225	
112	Description:- Installation ,Testing and Commissioning of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.							
	10013700	42	Numbers	4712.363028	197919.2472	AT Par	197919.2472	
113	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30) ° to (50) ° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
	11010100	295	Numbers	13284.18489	3918834.541	AT Par	3918834.541	
114	Description:- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
	11010200	295	Numbers	923.5847556	272457.5029	AT Par	272457.5029	
115	Description:- Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.							
	11010300	264	Numbers	8390.116296	2214990.702	AT Par	2214990.702	
116	Description:- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
	11010400	264	Numbers	562.4401752	148484.2063	AT Par	148484.2063	
117	Description:- Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.							
	11010801	295	Numbers	6123.147653	1806328.558	AT Par	1806328.558	
118	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferna etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single (Large) Case Apparatus case / SS location box as per Drg No. CSTE/5074							
	11010802	264	Numbers	4674.551774	1234081.668	AT Par	1234081.668	
119	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferna etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half (Medium) Case Apparatus case / SS location box as per Drg No CSTE/5074							
	11010900	280	Numbers	8500.376898	2380105.531	AT Par	2380105.531	
120	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
	11011000	37	Numbers	4315.433749	159671.0487	AT Par	159671.0487	
121	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 12 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
	11011201	295	Numbers	2083.876492	614743.565	AT Par	614743.565	
122	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single Case (Large Case)							
	11011202	264	Numbers	607.96656	160503.1718	AT Par	160503.1718	
123	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half Case (Medium Case)							
	11011300	13120	Numbers	11.1282768	146002.9916	AT Par	146002.9916	
124	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. (Supply of all above terminals have been covered separately in Chapter 4 of SOR) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.							
	11011700	295	Numbers	26.3007756	7758.728802	AT Par	7758.728802	
125	Description:- Supply of Tic-tac Piano type Switches , 5A (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply							
	11011800	295	Numbers	39.4556076	11639.40424	AT Par	11639.40424	

126	Description:- Supply of two pin Lamp holder Bakelite type for Apparatus Cases (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
	11012000	25	Numbers	1949.403888	48735.0972	AT Par	48735.0972
127	Description:- Fixing of KLCR relays in field in half location boxes if Gate lodge is not provided or at any other location as decided by engineer in charge. Item includes supply and fixing of MS sheet and wiring of KLCR relays, push buttons and LEDs for KLCR circuit. The KLCR relays, push buttons, LEDs will be fixed on a MS sheet of min. 3mm in the half location box. The MS sheet will cover full length and breadth of the half location box and divided in two pieces of approx. 48cm x 46cm and 80cm x 46cm. The first piece to be fitted on top and will contain the KLCR relays, LEDs and push buttons. The second piece to be fitted below the first piece. (Supply of KLCR relays covered in separate item of SOR). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
	12010200	3350	Metre	676.1050344	2264951.865	AT Par	2264951.865
128	Description:- Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	12010300	3350	Metre	169.0307028	566252.8544	AT Par	566252.8544
129	Description:- Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
	12010400	2000	Metre	347.1097968	694219.5936	AT Par	694219.5936
130	Description:- Supply of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	12010500	2000	Metre	86.7774492	173554.8984	AT Par	173554.8984
131	Description:- Fixing of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes installation of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe along with any masonry work(if required) will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation.						
	12010601	2800	Metre	13.154832	36833.5296	AT Par	36833.5296
132	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. Lengthwise (up to 2 cables).(Unit is per RM Running Meter)						
	12010602	28000	Metre	28.3273308	793165.2624	AT Par	793165.2624
133	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. widthwise (more than 2 cables).(Unit is per RM Running Meter)						
	12010700	800	Numbers	1598.312088	1278649.67	AT Par	1278649.67
134	Description:- Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia.& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
	12010900	660	Metre	340.8434748	224956.6934	AT Par	224956.6934
135	Description:- Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia. & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
	12011600	5460	Metre	26.3007756	143602.2348	AT Par	143602.2348
136	Description:- Placing of DWC HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is RM running meter.)						
	12011700	17500	Numbers	602.9090604	10550908.56	AT Par	10550908.56
137	Description:- Supply of Half Round RCC pipes & collars of 300 mm outer dia & 250 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	12011800	17500	Numbers	296.3925864	5186870.262	AT Par	5186870.262
138	Description:- Supply of Half Round RCC pipes & collars of 150 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	12011900	70000	Metre	19.2167208	1345170.456	AT Par	1345170.456
139	Description:- Laying of half round RCC pipe after laying the cables in the trenches. (Cable laying is covered separately) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.(Unit is RM running meter)						
	12012000	150	Numbers	1909.877173	286481.576	AT Par	286481.576
140	Description:- Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC-77/2012 revision 3 With latest Amd. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply						
	12012100	140	Numbers	1028.787858	144030.3001	AT Par	144030.3001
141	Description:- Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12012200	15050	Metre	1069.247855	16092180.21	AT Par	16092180.21
142	Description:- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine(HDD machine). The bore shall be upto 200 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contactor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
	12012300	3300	Metre	109.0962216	360017.5313	AT Par	360017.5313
143	Description:- Horizontal Drilling by using manual pushing method at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge .Pipe Supply is not covered under this item Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12012500	4500	Numbers	292.1439312	1314647.69	AT Par	1314647.69
144	Description:- Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
	12012600	4500	Numbers	73.0359828	328661.9226	AT Par	328661.9226

145	Description:- Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12012900	200	Metre	292.3483644	58469.67288	AT Par	58469.67288
146	Description:- Providing 25 mm thick mastic asphalt flooring on broken portion of platform due to execution of trenches. Proportionate payment will be made for other depth. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.(Unit is RM running meter)						
	12013000	200	Numbers	82.9465488	16589.30976	AT Par	16589.30976
147	Description:- Removal of Rail (13 mtrs.) in the way of cable route. In case of panel (39 Mtrs. Each) will be consider as three rails for payment purpose. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12013100	200	Kilometre	82.9465488	16589.30976	AT Par	16589.30976
148	Description:- Removal of PRC Sleeper in the way of cable route. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12013700	58432	cum	243.7910352	14245197.77	AT Par	14245197.77
149	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of Railway Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
	12013800	200	cum	243.7910352	48758.20704	AT Par	48758.20704
150	Description:- Digging of trench 1.2 Mtrs. deep from rail flange/ road level and 0.3 Mtrs to 0.6 Mtrs wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No.CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
	12013900	6002	cum	447.1220736	2683626.686	AT Par	2683626.686
151	Description:- Digging of cable trench 0.3 Mtrs. Deep and 0.3 Mtrs. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches. The sharp edges will be smoothened out in bottom of the chase and will be leveled properly. In hard rocky ground area , cables will be laid normally on layer of shifted earth of 0.05 mtrs thickness previously deposited at bottom of the trench and cables will be covered with layer of sand or shifted earth of 0.1 mtr thickness. In case sharp edges of rocky ground can not be protected from shifted earth then GI/ CI /PVC /DWC/ HDPE pipes will be used, if numbers of cables is small.In case number of cables are large RCC duct will be used. In isolated cases, it can be given smooth surface by using either masonry bricks or cement concrete. A row of bricks shall then be placed length wise on the top and jointed with cement mortar and layer of concrete with cement plaster shall be provided on top of the same. Note: This item in hard rocky area will be operated only where normal depth i.e.1.2 mtr is not possible and it will be decided by site engineer/unit officer incharge of work. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
	12014000	14	Numbers	11116.34857	155628.8799	AT Par	155628.8799
152	Description:- Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12014100	812444	Metre	8.088444	6571407.797	AT Par	6571407.797
153	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometer post.(Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(unit is RM running meter)						
	12014300	24	cum	1769.271574	42462.51777	AT Par	42462.51777
154	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is cubic meter)						
	13010100	7	Numbers	140830.6717	985814.7017	AT Par	985814.7017
155	Description:- Supply of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
	13010200	7	Numbers	35207.67236	246453.7065	AT Par	246453.7065
156	Description:- Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. This includes supply of fuse terminal strip for incoming power supply wires. On job training at site will be given by OEM engineer for installation and maintenance of ELD. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
	13010300	89	Lot	15582.01405	1386799.251	AT Par	1386799.251
157	Description:- Supply of basic material to construct unit maintenance free earth as per RDSO Specs. No RDSO/SPN/197/2008 or latest and conforming to RDSO Drg.No.SDO/ RDSO/E&B/001.dtd.19.09.08 . It consist of following: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (ii) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate. (minimum 10 meter) (iii) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (iv) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (v) Supply of copper lug sleeve for 3/16 cable Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
	13010400	89	Set	6987.775651	621912.033	AT Par	621912.033
158	Description:- Installation of Unit Maintenance Free Earth as supplied under item no. 13.3 of Chapter 13 of SOR . It includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note: The installation of this item shall be carried out by the contractor as per RDSO Specn.No.RDSO/SPN/ 197/2008 or latest and conforming to RDSO Drg.No.S DO/RDSO/E&B/001 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution and testing.						
	13010700	7	Station	135097.4315	945682.0202	AT Par	945682.0202
159	Description:- Provision of Ring Earth for EI system which includes supply of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equi- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest, will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (f) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (h) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve for 3/16 cable Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E/TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
	13010800	7	Station	33774.35564	236420.4895	AT Par	236420.4895

	Description:- Installation, testing and commissioning of Ring Earth for EI system which includes installation of all components of earthing like earth electrode, earth enhancement material, earth pit, equip- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. Installation of one earth pit includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness 2500 microns to make requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of size 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E/ TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.							
161	13011000	12	Numbers	39149.49999	469793.9999	AT Par	469793.9999	
	Description:- Supply of Digital Multimeter of Fluke 287 Industrial or superior True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second . Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
162	13011200	4	Numbers	75422.03823	301688.1529	AT Par	301688.1529	
	Description:- Supply of Handheld Digital Earth Clamp Tester for clamp on earth/ground resistance measurement up to 1000 ohms. Accuracy 0.1 - 0.99 : 1% , 1 - 49 : 1.5% Also measure current leakage up to 20A. No spines required for measurement Model - DECT-2 or equivalent / higher version make Motwane/Stanley/Fluke/Megger. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
163	13011300	3	Numbers	369993.6492	1109980.948	AT Par	1109980.948	
	Description:- Supply of electronic Cable route tracer/locator with underground cable and pipe locating receiver and cable avoidance tool that provide location of armoured OFC , signalling and telecom , power cable etc. make : C Scope Stanley/3M Dynatel , model: DXL-4 DBG /2273M-ID 30 or superior. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
164	13011500	6	Numbers	7723.504073	46341.02444	AT Par	46341.02444	
	Description:- Supply of Digital Cable Insulation Tester for measurement of cable insulation resistance with auto range 0-500 V DC. Motwani or from any reputed make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
165	13011700	2	Numbers	50868.73095	101737.4619	AT Par	101737.4619	
	Description:- Supply of Cable Fault Locator to localize the faults of underground cables. Aplab make (Model No.3049) OR C Scope Stanley make(Model TS-90) or superior from any reputed make. It also includes supply of all accessories required to localize faults of underground cables. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
166	13011800	6	Numbers	7784.816256	46708.89754	AT Par	46708.89754	
	Description:- Supply of Digital Earth Resistance Tester for measurement of earth resistance with 3.5 digital LCD, 12.5 mm screen segment and Range -0.5 Ohms to 500 Ohms. WACO or from any reputed make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
167	14010200	6	Numbers	935.7974172	5614.784503	AT Par	5614.784503	
	Description:- Supply of seal plier as per sample got approved from site engineer incharge. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply							
168	14010300	2	Numbers	19861.10313	39722.20627	AT Par	39722.20627	
	Description:- Supply of Vacuum Cleaner, Eureka Forbes or from any reputed make only as per specification given below:-Voltage-230V AC,50Hz, Input Power(IEC)-1000 Watt, Suction of the motor 1700 mm of water column , Airflow-30 litres/second, Dust collection capacity-61(dry), 81(wet), Variable power option-2 Speed, Blower function, Air filtration-2 Stage, Hepa filter, Dust collection type-Washable dust bag, On board accessory storage. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply							
169	14010400	150	Numbers	99.4967496	14924.51244	AT Par	14924.51244	
	Description:- Supply of Safety lock Godrej or Navtal make size as approved by site engineer. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply							
170	14010600	8	Numbers	2186.795275	17494.3622	AT Par	17494.3622	
	Description:- Supply of Obstruction test piece 3mm/5mm as per sample approved by Engineer incharge. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply							
171	14011300	1	Station	47332.2588	47332.2588	AT Par	47332.2588	
	Description:- Dismantling of existing lever frames/signal fittings/point fittings/lifting barriers (within station limit)/indoor and outdoor equipment and all other released material of S&T at way side station (3/4 Line). All the released material will be transported to the place/location as decided by site engineer. The item includes i). Mechanical Signalling gears like levers, down rods, locking trough, Rodding, wire transmission, signal posts and hoods etc. ii). Electrical Signalling gears like relays, batteries, indicators, SM slide control and all released wire transmission for slot, telephone, selector control and their related items etc. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution							
172	14011401	7	MT	558.3959532	3908.771672	AT Par	3908.771672	
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution(Unit is metric ton)							
173	14011402	2800	MT-Km	5.0574996	14160.99888	AT Par	14160.99888	
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Extra for each additional 1 Km or part thereof. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution							
174	14011600	7	Station	32838.1138	229866.7966	AT Par	229866.7966	
	Description:- Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos. , apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of signals from nearest line on the signals base. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution							
175	14011900	80	Hour	969.3600156	77548.80125	AT Par	77548.80125	
	Description:- Hiring of JCB machine(in good condition) for levelling and dressing ground/ dismantling structures including disposal of debris through dumpers etc with contractors labour , JCB machine , machine operator, fuel etc. The contractor shall arrange for road permit for all the states for operation as per instructions of engineer incharge and vehicle shall not be more than 3 years old . Payment shall be made for actual working hrs at site. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution							
176	14012700	28	Numbers	1627.394933	45567.05812	AT Par	45567.05812	
	Description:- Supply & fixing of Crank Handle Box & SM's key box of size 450 mm x 250 mm x150 mm and made of 12 mm thick teakwood with a glass front, lock and sealing arrangement. All material like lock, teakwood, handles, hinges, glass sheet of 3 mm thick will be supplied by the contractor. Box will be polished and description will be written as per instructions of Engineer in charge. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution							
177	14012800	19	Numbers	1531.000235	29089.00446	AT Par	29089.00446	
	Description:- Supply & fixing of KLCR boxes & fixing of KLCR Relays in ASM office. It includes supply of any minor bracket, nuts, bolts, teakwood, sun mica, lock, drilling hole etc as directed by engineer at site. It also includes supply and wiring of push buttons along with LEDs for KLCR circuit. Rly will supply only KLCR relays and contractor has to wire KLCR relays. It includes supply of all the related wiring material. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution							

178	15010100	2440	Metre	16.6568616	40642.7423	AT Par	40642.7423	
	Description:- Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/ Systemax / Panduit/ Tyco/ Krone/ AMP. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
179	15010200	5	Numbers	2948.042293	14740.21147	AT Par	14740.21147	
	Description:- Supply of 4/2 wire combined Portable Light Weight Emergency control telephones of metal body with 6-pin plug as per IRS-TC-75/99 (Amnd 4) or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
180	15010300	20	Numbers	1245.620376	24912.40752	AT Par	24912.40752	
	Description:- Supply of KRONE Punching tool, Krone or any reputed make only. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
181	15010400	1	Set	19580.98521	19580.98521	AT Par	19580.98521	
	Description:- Supply of Transmission Measuring Set/Kit along with all accessories as per RDSO Specn. No. IRS: TC- 43/87 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
182	15010600	55	Numbers	11334.66545	623406.5996	AT Par	623406.5996	
	Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
183	15010700	1	Numbers	172397.6109	172397.6109	AT Par	172397.6109	
	Description:- Supply of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will supply all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply.							
184	15010800	1	Numbers	43099.40718	43099.40718	AT Par	43099.40718	
	Description:- Installation, wiring, testing & commissioning of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will install all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.							
185	15010900	10	Numbers	225365.5242	2253655.242	AT Par	2253655.242	
	Description:- Supply of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply							
186	15011000	10	Numbers	56341.38105	563413.8105	AT Par	563413.8105	
	Description:- Installation, wiring, testing and commissioning of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.							
187	15011100	260	Kilometre	42942.75802	11165117.08	AT Par	11165117.08	
	Description:- Supply of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes supply of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply							
188	15011200	260	Kilometre	10735.68506	2791278.116	AT Par	2791278.116	
	Description:- Laying of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes installation of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
189	15011300	260	Kilometre	9603.711767	2496965.059	AT Par	2496965.059	
	Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per instructions of engineer incharge at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
190	15011400	110	Numbers	4678.738211	514661.2032	AT Par	514661.2032	
	Description:- Construction of brick chamber of optical fibre cable straight through joint as per Drg. No. CSTE/NWR/ SOR/23. It also includes supply and provision of all the material required for this item like bricks, sand, cement etc. The cement and sand should be in ratio 1:6. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
191	15011600	8	Numbers	3923.295318	31386.36254	AT Par	31386.36254	
	Description:- Supply & Installation of Professional 19" Equipment Racks 4U for housing of network equipments. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
192	15011700	7	Numbers	6540.689131	45784.82392	AT Par	45784.82392	
	Description:- Supply & Installation of Professional 19" Equipment Racks 12U for housing of network equipment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
193	15012100	7	Numbers	3259.020744	22813.14521	AT Par	22813.14521	
	Description:- Installation of Battery chargers, Power distribution Board along with MCBs of suitable ratings and wiring and commissioning of External alarm contacts through EMS. The work includes supply of battery rack, MCBs, battery cable and battery lugs and other accessories required for installation of power plant. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
194	15012700	8	Per Block Section	18950.81543	151606.5234	AT Par	151606.5234	
	Description:- End to end testing of all the fibers of the optical fiber cable & all the conductors of 6- Quad cable between stations/cable hut in presence of railway engineer. All equipment accessories required for the above job are to be arranged by the contractor's representative and railway's site Engineer in-charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
195	15013000	220	Kilometre	271.0962	59641.164	AT Par	59641.164	
	Description:- Video recording of trenching. It includes the man power and all required arrangement for video recording at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
	15013100	200	Numbers	131.2194492	26243.88984	AT Par	26243.88984	

196	Description:- Supply of LC/PC -LC/PC patch cord (5 meter) (3M, TE connectivity, R&M make or superior) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
197	15013200	200	Numbers	130.3839396	26076.78792	AT Par
	Description:- Supply of SC/APC -LC/PC patch cord (5 meter) (3M, TE connectivity, R&M make or superior) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
198	15013700	20	Numbers	1095.646403	21912.92806	AT Par
	Description:- Supply of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
199	15013800	20	Numbers	273.9138228	5478.276456	AT Par
	Description:- Fixing and wiring of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
200	15013900	20	Numbers	1744.864027	34897.28054	AT Par
	Description:- Supply of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
201	15014000	20	Numbers	436.2160068	8724.320136	AT Par
	Description:- Fixing and wiring of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
202	15014500	150	Metre	581.9857668	87297.86502	AT Par
	Description:- Supply of DLP trunk 80X50mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
203	15014600	150	Metre	145.4942196	21824.13294	AT Par
	Description:- Fixing & wiring (Laying) of DLP trunk 80X50mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Cable will be supplied by Railway and all other fixing material will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
204	15014700	300	Metre	98.5456908	29563.70724	AT Par
	Description:- Supply of DLP trunk 32X20mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
205	15014800	300	Metre	24.6386448	7391.59344	AT Par
	Description:- Fixing & wiring (Laying) of DLP trunk 32X20mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Cable will be supplied by Railway and all other fixing material will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
206	15014900	20	Numbers	508.3809264	10167.61853	AT Par
	Description:- Supply of frame, surface box and white cover plates for Two modules. This also includes supply of RJ-11 Telephone sockets with level holder Jack type, RJ-45 LAN sockets Jack Type (Tool less) and blanking plates for one modules. Make: Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
207	15015000	20	Numbers	127.0952316	2541.904632	AT Par
	Description:- Fixing of frame, surface box and white cover plates for Two modules. This also includes fixing of RJ-11 Telephone sockets with level holder Jack type, RJ-45 LAN sockets Jack Type (Tool less) and blanking plates for one modules. Make: Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
208	15015100	220	Kilometre	875.9340432	192705.4895	AT Par
	Description:- Final location joint survey of proposed cable route plan(Quad/OFC Cable) and submission for approval of Railway. The details instruction/guidelines regarding joint survey and preparation of cable route plan are enclosed in Tender document. Contractor will submit two copies of prints with soft copy for checking by Railways. If alterations are suggested by Railways, then again two copies of prints will be provided for advance approval after carrying out all the alterations as submission of final cable route plan on 75 micron standard polyester film which includes details of entire section in which Quad /OFC Cables are laid. Once Railway has approved/signed tracings for cable route plan then contractor will submit 6 (Six) sets of xerox copies for cable route plan in proper binding form. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
209	15015400	8	Numbers	26108.01287	208864.103	AT Par
	Description:- Supply of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.					
	15015500	8	Numbers	6527.000995	52216.00796	AT Par
	Description:- Installation and complete indoor wiring of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
211	15015700	18	Lumpsum	8042.410976	144763.3976	AT Par
	Description:- Installation of integrated Access Multiplexer 4U height/19" Rack mountable with 4 DTE (1+1) protection E1 interfaces & V.21/V.23 Modules supporting 8 Interface of (2W/4W) in one module and one Telnet port balance 2 slots empty; unit to support both AC/DC power supply; Cable to be provided for one no for E&M interface; DC to AC adapter- 1 Nos; Make Fabio 4C/ 4E1/ DC Team Engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
212	15016300	9	Numbers	58222.19316	523999.7384	AT Par
	Description:- Supply of Electronic LC gate telephone system in 1+6 configuration with inbuilt voice recorder . It includes supply of 'surge protection and line connection unit /circuit' and centralised power supply system with battery as per RDSO Spec no. RDSO/SPN/TC/51/2011Revision 3.0 amendment 1.0 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply					
213	15016400	9	Numbers	16291.68169	146625.1352	AT Par
	Description:- Installation of Electronic LC gate telephone system in 1+6 configuration with inbuilt voice recorder . It includes installation of 'surge protection and line connection unit /circuit' and centralised power supply system with battery as per RDSO Spec no. RDSO/SPN/TC/51/2011Revision 3.0 amendment 1.0 or latest. All the material required for fixing and installation of station telephone unit and gate telephone(slave telephone) will be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
214	15016600	125	Numbers	3879.626609	484953.3261	AT Par
	Description:- Supply of Emergency Socket Box made of FRP material as per RDSO Specification No. RDSO/SPN/TC/44/2002Version 2.0 Amendment No. 3 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
215	15016800	10	Numbers	1376.733164	13767.33164	AT Par
	Description:- Supply and provision of thermo-shrink splice filling jelly jointing kit as per RDSO Specn.No.RDSO/SPN/TC/57 2015 (Rev.1) Amnd.1 or latest suitable for PIJF cable for straight through joints. It includes supply of all the accessories as recommended by RDSO. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
216	15016900	120	Numbers	221.054508	26526.54096	AT Par
	Description:- Painting of emergency post and sockets in sections as per instructions of the site engineer in charge. This shall include all material, labour and transportation required for painting of emergency post and sockets in section. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.					
217	15017000	140	Numbers	820.5148692	114872.0817	AT Par
	Description:- Supply of VF Transformers (2T/3T), 1120/470 Ohms as per RDSO Spec. No. IRS: TC-76- 2000 with Amnd. 1 or latest for emergency joints in 6-Quad Cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
218	15017300	58	Numbers	24213.42374	1404378.577	AT Par
	Description:- Supply of 8 port Gigabit Lite Managed PoE Layer 2 Switch supports 8 nos 10/100/1000BASE-T ports, along with 2 Gigabit SFP ports, green-saving technologies, make model DG-GS1510HPL DIGISOL / CISCO/JUNIPER or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.					
219	15019100	24	Numbers	49443.52935	1186644.704	AT Par
	Description:- Supply of Double side Digital Clock suitable for platform area with GPS Synchronization in standalone mode as per Clause 5 of RDSO SPN TC 62/2008, (Rev 3.0) Amnd. 2 or latest with all required accessories. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply					
	15019200	24	Numbers	5496.115475	131906.7714	AT Par

220	Description:- Installation & Commissioning of Double single Digital Clock suitable for platform area with GPS Synchronization in standalone mode as per instruction of site incharge with all required accessories and fixing arrangements to commissioning the item. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.							
	15019300	7	Numbers	11739.00765	82173.05357	AT Par	82173.05357	
221	Description:- Supply of Digital Clock suitable for Office Complex with GPS Synchronization in standalone mode as per Clause 6 of RDSO SPN TC 62/2008, (Rev 3.0) Amnd. 2 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply							
	15019400	2500	Metre	29.3494968	73373.742	AT Par	73373.742	
222	Description:- Supply of power cable 3 core 2.5 sq mm multi strand (36/0.3 mm dia) cable as per IS 694:1990 reaffirmed 1995 or latest suitable for railway electrification area shall be of reputed make like Delton, LAPP, Finolex, or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	15019600	32	Numbers	1242.1539	39748.9248	AT Par	39748.9248	
223	Description:- Supply installation and commissioning of versatile PA horn speaker 30W with 100V LMT Taps 15, 10 and 5W complete with fixture of make Philips/Ahuja/AKG. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.							
	15019700	28	Numbers	1494.184482	41837.1655	AT Par	41837.1655	
224	Description:- Supply and installation of column speaker 15W with LMT all metal weather resistant, including fixtures and other material required. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
	15019900	4200	Metre	31.3049448	131480.7682	AT Par	131480.7682	
225	Description:- Supply of 2 core screened/shielded multistrand PVC insulated wire (24/0.2 mm dia) for speaker load line. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	15020100	7	Numbers	15827.62721	110793.3905	AT Par	110793.3905	
226	Description:- Supply & installation of Amplifier AHUJA TZA-4000EM or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
	15020200	7	Numbers	1461.42184	10229.95288	AT Par	10229.95288	
227	Description:- Supply of Mike AHUJA ACM-66CH or superior make. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	15020300	7	Numbers	9598.929808	67192.50865	AT Par	67192.50865	
228	Description:- Supply of good quality class-c surge protector device. The parameters of Class C protection device shall be as per clause no. 5.9 of specification no. RDSO/SPN/TC/98/2011, Rev.0 or latest of make phoenix contact, Wago or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	15020400	7	Numbers	28220.89221	197546.2455	AT Par	197546.2455	
229	Description:- Supply of Sine Wave output Voltage inverter of 2.0KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640 with trolley stand. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	15020500	1	Lumpsum	4811.273143	4811.273143	AT Par	4811.273143	
230	Description:- Complete wiring, testing, integration and commissioning of IPIS system as per scope of work. This shall includes all connecting cables, connectors etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.							
	15020600	34	Numbers	25554.15	868841.1	AT Par	868841.1	
231	Description:- Supply of CWDM SFP + 40Gbps-1xx1nm(xx=47,49, 61)-40Km-DDM-RoHs(suitable for the IP-MPLS network). Make: Cisco, Eoptical or similar suitable for Neon. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
	15021400	10	Metre	43.7398164	437.398164	AT Par	437.398164	
232	Description:- Supply of 10 pair switchboard indoor copper cable 0.6 dia as per specification IRS:TC:24:91. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
	15023400	80	Metre	37.6157088	3009.256704	AT Par	3009.256704	
233	Description:- Supply and installation of 2 core shielded Microphone Cable, make Finolex, Beldon, Sommer or similar Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution							
	15025700	7	Numbers	6204.858714	43434.011	AT Par	43434.011	
234	Description:- Supply, fixing and wiring of surge protection device in attachment plug module with replaceable surge protection for coaxial signal, interfaces N-connector plug/socket installed as surge protection between antenna and 25 W VHF sets, make- Phoenix Contact model CN-UB-280DC-SB- 2818148 or similar as per specifications. This includes mounting plate and reserve gas filled surge arrester (one no.) with all required connectors/clamp for commissioning of SPD at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
	15025900	6	Numbers	2983.258134	17899.5488	AT Par	17899.5488	
235	Description:- Supply of single mode single fibre optical media converter supports wavelength division multiplexing (WDM) upto 20 KM, wavelength supported 1310 & 1550 nm, 10/100/1000(Giga) RJ-45, model- DIGISOL DG-MC6123S or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
	15026300	18	Numbers	13772.18471	247899.3248	AT Par	247899.3248	
236	Description:- Supply of wireless access point dual band indoor managed/standalone access, built in antenna, two ports(1GE + 1FE), POE support. This includes all accessories make DIGISOL model DG-WM5307IAC or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	15026400	18	Numbers	860.7615444	15493.7078	AT Par	15493.7078	
237	Description:- Installation of wireless access point dual band indoor managed/standalone access, built in antenna, two ports(1GE + 1FE), POE support. This includes all accessories make DIGISOL model DG- WM5307IAC or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
	15026500	80	Numbers	4148.794026	331903.5221	AT Par	331903.5221	
238	Description:- Supply of Small Form- Factor Pluggable(SFP) as per IEEE standard: IEEE 802.3z, Connector type: LC type, Wavelength(nm): 1310 nm, Fibre type: Single mode, Max cable distance: upto 20 km. Make & modelDG-SA1133-20 DIGISOL/Netgear/Cisco or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							

Closing Date/Time: 04/11/2024 10:30

1. NIT HEADER

Name of Work	Design, manufacture, Supply, Installation, Testing & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver. 2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhuja Road, Kuwanthal, Devgarh Madariya & Nathdwara Town stations along with Supply, installation, testing & Commissioning of various indoor & outdoor Signalling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdwara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya - Nathdwara section of Ajmer division of North Western Railway		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	04/11/2024 10:30	Date Time Of Uploading Tender	09/10/2024 16:31
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	473791441.38	Tendering Section	WORKS
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	2519000.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	18 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	21/10/2024	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule NS-Items							262083007.99	
	Please see Item Breakup for details.				90151681.52	AT Par	90151681.52	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

1	Description:- Design, Manufacture & Supply of Electronic Interlocking (EI) System (Centralized architecture) for station as per Signal Interlocking Plan in 'Hot Standby architecture'. EI system shall be provided to operate with dual VDU Control Terminal as per RDSO Specification No.RDSO/SPN/192/2019 Ver. 2 or latest and from RDSO approved source only. It mainly consist of Microprocessor Equipments, Interface Equipments, EI vendor specific Interfacing Relays , In-built event Logger, In-built Power Supply Equipments, Racks (Only Relay Rack/EI Rack), Indoor cables, Wires, Fuses , Fixtures, Mounting arrangements along with all accessories required to make complete EI system functional. Design of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. This item also includes supply of following :- (a) Supply of documents/manuals for EI system as per RDSO Specn.No. RDSO/SPN/192/2019 Ver.2 or latest. (b) Supply & provision of protective devices like surge and lightning protection devices compatible to RE standards as recommended by OEM / RDSO. (c) The system at all stations is to be commissioned with inbuilt Block instrument in EI itself including Nathdwara-Knakroli, Nathdwara-Nathdwara Town sections(if tehcnically feasible) Nathdawara station has K5BMC Kyosan make EI system. This includes all the material which is required to make complete EI system functional with inbuilt Block instruments. (d) EI design should adhere to RDSO letter No: RDSO-SIG0MISC(GEN)/1/2021Part(1) Date: 17.08.2024. & Railway Board Letter No. 2018/Sig/18/ EI/Gen. New Delhi. Note: It includes supply of all the material which is required to make complete EI system to be functional and as recommended by RDSO in Specn.No.RDSO/SPN/192/2019 Ver. 2 or latest. Design , manufacture & Suupply of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time.The Technical Requirements are attached with the tender document. Railway will supply RDSO approved type of relays with approved contact configruation only. In case of requirement of vendor specific relays/relays with non-RDSO approved contact configruation being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI (Electronic Interlocking) system and number & type of such relays shall be indicated separately. Inspection: RDSO, Inspection charges: Borne by Railways Payment terms:100% after supply (payment of design after commissioning)							
2	2	1.00	Station	4517324.09	4517324.09	AT Par	4517324.09	Description:- Addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with dismantling of MG facilities at Mavli Junction and provision of inbuilt Block instrument in EI in Nathdawara-Mavli Jn section. Addition/alteration of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. Note (1): Railway will supply only RDSO approved type of relays. In case of requirement of any vender specific relays for EI system being supplied, the same shall be supplied by the tenderer without any extra cost. (2): This item includes supply of all material required to make EI functional. (3) Re-designing of Application Logic & Interface circuits as per approved SIP. (4) Installation, programming, wiring, testing & commissioning of complete yard for data input and configuration, simulation & functional testing & commissioning of EI as per approved SIP. (5) Factory Acceptance Test & (Site Acceptance Test, if required by Railways) as per approved SIP & ST upto the satisfaction of Railways. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms: 100% after commissioning.
3	3	1.00	Lot	5343045.94	5343045.94	AT Par	5343045.94	Description:- Supply of the following essential spares to the extant of 10% of the quantities installed(subject to minimum 1 number):-(i) Each type of Input/output cards(ii) Each type of vendor specific relays(iii) DC-DC converters of all voltages (iv) Switches, connectors, fuses, couplers. Inspection: RDSO, Inspection charges: Borne by Railways Payment terms:100% after Supply (after commissioning as mentioned in TS)
4	4	1.00	Station	579267.13	579267.13	AT Par	579267.13	Description:- Re-designing (addition/alteration) of EI programme, testing and commissioning for phase working as per approved signalling plan of aforesaid stations. It includes supply & installation of all types of cards, couplers, cables etc. required to make EI functional in all respect. Note 1: Railway will supply only RDSO approved type of relays. In case of requirement of vender specific relays for EI system being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI and number & type of such relays shall be indicated separately. Note 2: (1) Re-designing of Application Logic & Interface circuits as per approved SIP in c/w Block afteration work. (2) Installation, wiring, testing & commissioning of complete yard for data input and configuration, simulation & functional testing & commissioning of EI. (3) Supply of ASMADE documents as per NWR practice and these shall be provided only for modified portion of work in the form of CD, Softcopy with one set of drawing (completion) in the regular A3 size print (hard copy). (4) Factory Acceptance Test & (Site Acceptance Test, if required by Railways) as per approved SIP & ST upto the satisfaction of Railways. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms: 100% after commissioning.
	5	9.00	Station	106778.37	961005.33	AT Par	961005.33	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

5	Description:- Design, preparation & supply of drawings in computer print copies and original tracing in AUTO CAD FORMAT for Electronic Interlocking at each station. After completion of the work, the completion drawings (04 sets) incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.						
6	6	14.00	Numbers	468665.70	6561319.80	AT Par	6561319.80
	Description:- SIWTC of embedded fanless PC based VDU Control Terminal as per RDSO Specification No.RDSO/SPN/192/2005 with latest amendments & RDSO TAN no - STS/E/TAN/3007 version 1 dated 02.11.12. The display size of VDU shall be 55 inch. Note: (i) Technical Requirements mentioned in the tender document. (ii) One revolving chair should be supplied with Control Terminal. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms:80% after supply & 20% after commissioning.						
7	7	7.00	Numbers	451281.87	3158973.09	AT Par	3158973.09
	Description:- SIWTC of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 55 inch. Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. (ii) One table of suitable size alongwith revolving chair should be supplied with Maintenance terminal. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms:80% after supply & 20% after commissioning.						
8	8	21.00	Numbers	178258.47	3743427.87	AT Par	3743427.87
	Description:- SITC of Modular Power supply Arrangement for VDU as per HQ letter no. SG/184/1 (Vol. VII) dtd. 01.03.2024 (42" to 85") and Industrial PC (Embedded PC) with input and output redundancy arrangement and hot pluggable modules in set. One set Consists of :- 1. Input O-Ring diode Module with potential free-1 no contacts (PFC) for two 110V DC sources from IPS and Single 110V DC Bus. Quantity : 1 No. 2. Isolated Inverters (Master/Slave), Input 110 V DC, Output : 110/120 V AC 500 VA Quantity : 2 Nos. 3. Isolated DC-DC Converters, Input 110V DC, Out Put 24V DC/10A , Quantity : 2 nos. 4.3U SS Rack with back Panel mother Board/front panel power connectors inverter auto changer over switch and all required over switch and all required protection circuits (3U height for main rack 132.5mm +/- 10% & 1U height for mounting 44.5mm +/-10%) Quantity; 1 No. (Total 4 items) Make: Gallant or Similar. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment terms: 80% after supply, 10% after installation & 10% after commissioning						
	9	36000.00	Per Unit	122.47	4408920.00	AT Par	4408920.00

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

9	Description:- Termination of main, tail, Signaling and power cables on terminal/ fuse blocks in A/cases, CT boxes and in gate Lodges excluding CTR at RR. The work includes fixing of all cables by teakwood clamp on teakwood base plank, varnishing all teakwood items, fixing of terminals/fuse blocks on the terminal board/Phenolic sheet, drilling of necessary holes, termination of cables, wiring, earthing of armour of all cables on copper bus bar of 25mm X 3 mm of suitable length to fix it from left wall to right wall of A/case, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, painting/printing of particulars on sleeves and also on the inner side of the doors of A/cases. After terminations are over, the cable entry space/openings of A/case foundation shall be closed with brick work, cement plastered, the inter-space filled with river sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of Phenolic Sheet, Terminals and Fuse blocks are not covered in this schedule). [Cement, teakwood made cable clamp 50mm x 50mm, base planks 100mm x 25mm, PVC/Nylon sleeves, varnish, paints, slotted angles, bolts, nuts and washers, Aluminium cable tags, sealing compound, country bricks, copper bus bars for armour earthing, brass screw, river sand and other miscellaneous materials shall be supplied by the Contractor]. Note :- Termination/Writing work should be done in accordance with the policy circulated by RB vide L. No. 2023/Sig/17-Sig Equip/ Maintenance/Part dtd 06.11.2023 (as reproduced below) 1.Conductor/wire labeling:Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core / Signaling function in Black with Yellow background) to be provided on each cable conductor., 2.Description details of Terminals : The Row of Screwless Disconnect Terminal I ARA Terminal shall be serially numbered as A, B, C, D .. from top and in each row, terminals shall also be serially numbered from left to right starting from 1., 3.The CT Details of Location Box (Location Termination Particulars) shall be prepared in AutoCAD/ any suitable software. One copy of CT details shall be fixed in the respective location box duly printed on a sun board of A3 Size or large (fixed in a S.S./Aluminium frame with acrylic/transparent front cover mounted on apparatus case door) and another laminated copy in plastic cover shall also be kept in the location box. 4.After every cable terminated in a row, there should be a minimum gap equivalent to 1-2 ARA terminal or minimum 06 Screwless Disconnect Terminals 5.Inside the Location Box, minimum clearance of bottom most terminal row shall be around 150mm from base of location box. The Centre to Centre Distance between two rows of Screwless Disconnect Terminal/ARA Terminal shall be around 18cm to 20cm or suitable gap between rows to be kept for cable entry holes and description writings 6.Location Box shall be numbered from its front side as well as Back side/side walls with black letter on yellow/white background. 7.The Cables terminated on Location Box shall be identified by punched labels / Cable Identification Tag tied on each end of the cable for correct identification. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after execution. {Measurement Unit: Per Unit= Per Terminal/Fuse Block/ARA Terminal/WAGO}						
	10	13500.00	Per Unit	117.52	1586520.00	AT Par	1586520.00
10	Description:- Termination of Main, Tail, Signalling and power cables and internal wiring on terminal/ fuse blocks in CTR at relay room. The work includes fixing of all cables by teakwood clamp on teakwood base plank, fixing of phenolic sheet/ladder for terminal board, varnishing all teakwood items, fixing of terminals/ fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminium tags with letters punched neatly, as per approved circuit diagram and cable plan, printing of particulars on sleeves. After terminations are over, cable entry at the bottom shall be closed with cement plastered, the interspace filled with sand up to base level and the bottom surface shall be sealed with sealing compound. Cable armour to be soldered to earth. (Supply of CTR, Terminals, Fuse blocks is not included in this schedule). [All bolts and nuts with washers, Phenolic laminated Sheet, grade P3 of size 10 mm Thick, cement, sand, stone jelly, copper bus bars for armour earthing, brass screw, Teak wood base /MS ladder, insulators, PVC/Nylon sleeves, CT Rack detail printed on vinyl/flex duly fixed on S.S. frame of size prescribed by engineer in charge, varnish, paints, Aluminium cable tags, sealing compound and all other miscellaneous materials required for the work shall be supplied by the contractor] Note: Termination/Writing work should be done in accordance with the policy circulated by RB vide L. No. 2023/Sig/17-Sig equip/Maintenance/Part dtd 06.11.2023 (as reproduced below) 1.Conductor/wire labeling: Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core / Signaling function in Black with Yellow background) to be provided on each cable conductor. 2.Description details of Terminals: The Row of Screwless Disconnect Terminal I ARA Terminal shall be serially numbered as A, B, C, D from top and in each row, terminals shall also be serially numbered from left to right starting from 1. 3.The Centre to Centre Distance between two rows of Screwless Disconnect Terminal / ARA Terminal shall be around 18cm to 20cm. After every cable terminated in a row, there should be a minimum gap equivalent to 1 ARA terminal or 02 spacers/dummy Screwless Disconnect Terminals, 4.The Cables terminated on CT rack shall be identified by punched labels/ Cable Identification Tag tied on each end of the cable for correct identification. 5.Line wise and if necessary, function wise cables shall be provided as per para 15.1.2. (c) of IRSEM, 6.Minimum clearance of bottom most terminal in CT rack shall be normally 300mm from ground, 7.CT Racks Particulars (i.e., Function wiring and termination details) may be made using Vinyl Printing or Flex Printing on 300 GSM PVC banner roll of suitable size framed or any other means and shall be fixed on wall or CT Rack moveable board through suitable metallic frame (CT Board) adjacent to CT rack. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after execution. {Measurement Unit: Per Unit= Per Terminal/Fuse Block/ARA Terminal/WAGO}						
	11	7.00	Numbers	89074.89	623524.23	AT Par	623524.23

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

11	Description:- Installation, wiring, testing and commissioning of Diesel Generator Set 12.5 KVA, Single Phase, 240V, 1500 RPM, 50 Hz, 20 BHP (minimum). This also includes all masonry work required for installation of DG set will be done by contractor under supervision/instructions of site engineer incharge. Note: DG set, AMF control panel, 12V/120 AH battery set battery charger of suitable rating to ensure self starting arrangement of DG sets, start/stop buttons, Volt/Ampere/Frequency meters and 63 AMP MCB (minimum) will be supplied by Railways. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after commissioning.						
12	12	210.00	Sqm	1622.42	340708.20	AT Par	340708.20
	Description:- Supply of insulation mat (Rubber Mat) for electrical purpose 2.5mm thick size 2mx1m suitable for 3.3 KV to 11 KV (Class B) confirming to IS 15652-2006. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after Supply.						
13	13	80.00	Numbers	18798.74	1503899.20	AT Par	1503899.20
	Description:- Fixing, wiring, testing & commissioning of Electrical Point Machine-220 mm stroke suitable for Thick Web Switches (TWS) on the extended sleepers at points as per standard railway practice as per RDSO Drg. No. S 3454 Alt 'A' or latest as per section of rails used. Item includes fixing of switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes wiring inside the point machine, termination of tail cable in point machine and junction boxes. The item includes supply and fixing of GI pipe (banded in S shape according to NWR practice) with flange for taking cable into point machine and fixing of Ward plates for points. Complete material for installation like GI pipes, wiring materials (wiring should be done with 4 mm flexible copper wire with lug), various fixing nuts & bolts including castle nuts, spring washers etc. will be supplied by the contractor. Ground connections, extension brackets, insulation material will be supplied by Railway. The item includes all smithy & fitting works required at site for complete installation of point machine. This includes modification- smithy work at site on the material supplied by the Railway if desired. Installation of gauge tie plate & providing insulation for gauge tie plate will be done by Railways. Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after commissioning.						
14	14	7.00	Numbers	284356.91	1990498.37	AT Par	1990498.37
	Description:- Supply, fabrication, installation and fixing of panel operator console with arrangement to fix upto 55" VDU's - 2Nos. Reset boxes, and other S&T gadgets. This shall be made of not less than 18mm thick plywood/ novopan or better materials with storage facility of approved colors with contractors' materials, lead, lift and manpower as per the instructions of engineer incharge and as per the enclosed drawing with One Chair (Godrej Make) Model Aero Mid Back Synchro Chair or superior, as approved by Engineer incharge. Modification in size & layout is permissible as per site & room requirement. Finishing work to be done as per instruction of engineer incharge. Inspection: Consignee Inspection charges: None Payment Terms: 100% after execution.						
15	15	592.00	Numbers	5961.99	3529498.08	AT Par	3529498.08
	Description:- Supply and Installation of earth electrode including MS flat for signalling equipments on lever frame, apparatus cases, signal, relay racks, cable termination rack, block instrument etc. (supply & installation of earth electrode as per drawing no. RE/S&T/DRG/ Tender/SK/398/94 for apparatus cases, signal post & other equipments as per instruction on earthing of S&T equipment. Laying of earth lead mild steel flat of size 35mmx6mm and fixing of lead MS flat to earth electrode and lever frame, signal post & apparatus cases as per Drg. No. CORE/S&T/ALD/SK/591/2008, 592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment and providing cement enclosure for earth electrode as per drawing no. RE/S&T/Sig./Tender/SK/13/85 Alt. A) Laying of earth lead mild steel flat of size 35mmx6mm and fixing of lead MS flat to earth electrode and lever frame, signal post & apparatus cases as per Drg. No. CORE/S&T/ALD/SK/591/2008, 592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment and providing cement enclosure for earth electrode as per drawing no. RE/S&T/Sig. /Tender/SK/13/85 Alt. A) Note: This item requires for earthing of all the A/Cases & Signal as per RE standard. Inspection: Consignee, Inspection Charges: None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning						
16	16	3.00	Numbers	64429.22	193287.66	AT Par	193287.66
	Description:- SITC of RO (Membrane based) De-ionized water plant. Technical specifications for water plant are as follows:- 1. Discharge of water (purified) - 10-15 Litre/Hour 2. Accepted TDS - 0-5 ppm (mg/Litre) with zero Hardness. 3. Accepted pH- 6.5 to 7.2 4. Total output of water in one Installation - 15000-20000 Litre. 5. Specific electrical conductivity at 25C - 0 to 5.0 (Max) micromhos per cm. 6. Mounting Type - Wall hanging in a Mild steel (Powder coated) cabinet of good quality. 7. Warranty Period - 1 Year 8. Operating Voltage - 24VDC/230V AC. 9.Service - on demand for one year from installation date. 10.Display Feature- Online TDS meter is required in cabinet which displays the TDS of discharge water from De-ionizedwater plant. It also includes the supply of a storage tank of capacity of 200 litre with the plant of reputed make only and one spare TDS meter is to be provided with each set. The switching of plant should be automatic, onfilling of tank it will shut down. It also includes supply of all the necessary items for making the plant functional. Note : - Test reports as per specifications mentioned should be attached alongwith the Consignee Inspection: Consignee Inspection Charges: Nil Payment Terms: 80% after supply & 20% after commissioning.						
	17	7.00	Station	343067.04	2401469.28	AT Par	2401469.28

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

17	Description:- SITC of VHF based secured communication equipment consisting of micro controller based equipment with built in Voice/Data storage facilities. 25W VHF radio with talking instrument, power supply (12V DC/15Amp) sealed maintenance free battery bank 12V/120AH, Omni directional stacked dipole antenna, 50 mtr length RG-217 cable, inclding portable programingand data backup terminal . Make -AE Telelink as per RDSO specification no.RDSO/SPN/TC/73/2008 Ver. 1.0 with latest amendments. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after commissioning.						
18	18	8.00	Station	8755.46	70043.68	AT Par	70043.68
	Description:- Fixing of GP antenna for 25W VHF set on the roof of ASM office, connection of the antenna with 30 meter coaxial cable, supply and fixing of wooden stand on the wall of ASM room for VHF set, SMPS at all the stations in the section. Note: Supply of 25W VHF set, Coaxial cable will be done by Railways and all the other material like (i) 12V/100AH battery, (ii) 50mm dia GI pipe of suitable length, (iii) wooden stand wall mounting of size 18"x12" for VHF, SMPS & battery (iv) PVC conduit pipe 25mm of length will be supplied by the contractor. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.						
19	19	7.00	Numbers	38606.77	270247.39	AT Par	270247.39
	Description:- Supply of Dual RS232 to E1 Converter card suitable to insert in the data logger euro rack for interlinking data loggers installed at various stations. One number per data logger is required which converts voice to E1 channel at stations. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.						
20	20	280.00	Metre	300.50	84140.00	AT Par	84140.00
	Description:- Supply & installation of copper tape 25x3mm for perimeter bonding in S&T rooms as per RDSO Drg. No. SDO/RDSO/E&B/001 or latest. Inspection: Consignee, Inspection Charges: None Payment Terms: 80% after supply & 20% after installation.						
21	21	700.00	Square Foot	63.38	44366.00	AT Par	44366.00
	Description:- Preparation, supply and fixing of flex banner board on iron frame for displaying Do & Don't, yard layout, at a glance etc in SM room, IPS room, maintenance room, Telecom Room etc. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.						
22	Please see Item Breakup for details.				30446408.69	AT Par	30446408.69
	Description:- SITC of Remote Diagnostic and Predictive Maintenance system (RDPMs) for signallinggears comprising of IoT based data acquisition from fiels gears, data analysis, generation of reports and real time messaging of exception reports based on machine learning/artificial intelligence confiming to RDSO/RDPM/FRS/2021 dtd. 06.05.2021 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
23	23	24.00	Month	15029.18	360700.32	AT Par	360700.32
	Description:- Provision of fully furnished Camp Office (2-3 BHK) at site for SSE/JE/ESM for supervision of work. The contractor will provide the storage safe for protection of important tender related documents i.e Inspection certificate/ Contract Agreement/ SIP/ SWRD/ CRP/ ST/ CP etc. It includes all cost of electric, water & cleaning of camp office. The payment will be done only after giving full satisfactory certificate signed by SSE/JE. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after execution.						
24	24	37.00	Month	53078.23	1963894.51	AT Par	1963894.51
	Description:- Providing chaukidar at various location in section for look after the material at nominated depot decided by engineer incharge for 3 shifts/day with all labour expenses complete. (For stations, This item will be operated after commissioning of station till handing over of station to open line and for depot it will be as per requirment of railways). Note: Rate covers the charges of 03 watchman per day/month at one location. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after execution.						
25	25	2.00	Numbers	989.82	1979.64	AT Par	1979.64
	Description:- Supply of Smoke Detector Tester Spray 200 ml Make Aerol or similar Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.						
26	26	2.00	Numbers	11435.51	22871.02	AT Par	22871.02
	Description:- SITC of change over 200 Amp., 03 phase, 415VAC, 50Hz (side handle), 4 pole. Make Havel's IHCFFE 200 or superior. Inspection: Consignee Inspection Charges: None Payment Terms: 80% after Supply & 20% after installation.						
27	27	7.00	Numbers	5022.96	35160.72	AT Par	35160.72
	Description:- Supply of true RMS Type AC/DC Mini clamp meter measuring range 1 MA to 100 Amp AC/DCcurrent and voltage 600VDC/DC with F.F.C. Function facility, Model-4673, Make- Metravi/Fluke or similar. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

28	28	700.00	Numbers	23.93	16751.00	AT Par	16751.00	
	Description:- Supply of PPTC electronic fuse X30-UF250 30V 4 AMP. Make TYCO or similar. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply							
29	29	24.00	Per Unit	65739.73	1577753.52	AT Par	1577753.52	
	Description:- Supply of one skilled and two un-skilled staff round the clock to attend to teething trouble of the installation along with JE/SE/SSE after the installation has been brought into commissioning. The work includes routine maintenance, failure restoration as per the direction of the JE/SE/SSE. (PerUnit = Per Month). The details of manpower deputed will be informed in writing with submission of verified credentials details like Aadhar card, police verification etc. will also be submitted if asked by Railways. Qualification & experience of skilled staff will be submitted for approval by Railways. This item will be operated on need basis as per Railway requirement. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution							
30	30	7.00	Numbers	7587.01	53109.07	AT Par	53109.07	
	Description:- Supply of High standing table having iron bar legs, wooden/plywood top, powder coated metal work and polished wooden work (height 40 to 48 inch, Length 42 inch, width 30 inch). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply							
31	31	35.00	Per Unit	7299.26	255474.10	AT Par	255474.10	
	Description:- Dismantling and re-installation of Track Devices of Digital Axle Counter coil at site for Engineering works like Packing, Rail Changing etc. after installation of Digital Axle Counter at Site by OEM to avoid damage. (Here per Unit means per DP). Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.							
32	32	177.00	Numbers	319326.70	56520825.90	AT Par	56520825.90	
	Description:- Supply of Multi section digital axle counter (MSDAC) complete set with all accessories consisting of complete indoor and outdoor equipment as per RDSO specification no. RDSO/SPN/176/2013 (ver. 3) with latest ammendmend/revision of required track section. It includes transportation of material to SSE depot and from SSE depot to site. (1 Number =1 DP) Note: 1 If any vendor specific system requires provision of location box for housing of track side electronics or any equipment except central evaluator/CPU system, then these additional location boxes will be provided by contractor at their own cost. 2 . Item includes supply of all material required for earthing arrangement of DPs as per RDSO guideline /OEM requirement. 3. Automatic resetting will be provided by providing soft supervisory track section as per scheme plan. All hardware software for auto resetting to be provided by the contractor. 4. All other hardware like extra cards modem etc. required for commissioning will be supplied by the contractor. Separate Evaluator (2 Nos per station) to be provided at each station as decided by the site engineer. 5.It also includes Diagnostic Computer per station for 5 stations to monitor line MSDAC DP's and system as per Specifications attached in technical specifications 6. If expansion/ augmentation is required in existing IPS/New IPS in connection with power supply requirement of MSDAC system, the additional DC-DC converter & connectors/ terminals, etc. shall be provided by contractor at his own cost. 7. System includes central evaluators, processors, final track clearance relays for each track section, Reset Boxes, Monitoring consoles, Diagnostic Computer (As per Specifications attached in technical specifications), LV boxes, detection points, mushroom housing for track side electronics, deflector plates and all other accessories as per RDSO's specification No. RDSO/SPN/176/2013 (Ver.3) with latest amendment/revision Inspection: RDSO (However, items not covered under RDSO inspection will be inspected by consignee with manufacturer certificate) Inspection Charges: Will be borne by Railways Payment Terms: 100% after supply.							
33	33	177.00	Numbers	11150.11	1973569.47	AT Par	1973569.47	
	Description:- Installation, testing and commissioning of Multi Section Digital Axle Counter (MSDAC) complete set with all accessories consisting of complete indoor and outdoo requirement including reset boxes, track side electronics, track devices and monitoring console etc.as per RDSO Specification No. RDSO/SPN/176/2013 (ver. 3) with latest ammendmend/revision of required track section. (Measurement Unit: Number=Per DP) Note: This items covers all the works related to execution to make the complete MSDAC system functional. All accessories required for commissioning will be provided by the contractor. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.							
34	34	7.00	Numbers	59841.54	418890.78	AT Par	418890.78	
	Description:- Supply of LED indication system with indication, buzzer & acknowledgment button up to 06 line station with interface facility to existing datalogger and modification of data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection: RITES Inspection Charges: Nil. Payment Terms: 100% after supply							
35	35	7.00	Numbers	10197.59	71383.13	AT Par	71383.13	
	Description:- Testing & commissioning of LED indication system with indication, buzzer & acknowledgment button up to 06 line station with interface facility to existing data logger and modification of data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after execution.							
	36	55.00	Numbers	17618.77	969032.35	AT Par	969032.35	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

36	Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn. G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
37	37	8.00	Numbers	150377.21	1203017.68	AT Par	1203017.68
	Description:- Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 75 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 100 Amps, automatic switching between the modules as per RDSO Spec No. RDSO/SPN/TC/23/1999 version 4 or latest along with two potential free contacts. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% on supply.						
38	38	8.00	Set	134702.57	1077620.56	AT Par	1077620.56
	Description:- Supply of 48Volt/300AH maintenance free VRLA Batteries fully charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
39	39	8.00	Set	22709.73	181677.84	AT Par	181677.84
	Description:- Installation, wiring, testing & commissioning of 48Volt/300AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
40	40	35.00	Numbers	23550.41	824264.35	AT Par	824264.35
	Description:- Supply & installation of Optical fiber cable termination box for 48 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/APC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/APC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
41	41	35.00	Numbers	24192.03	846721.05	AT Par	846721.05
	Description:- Supply & installation of Optical fiber cable termination box for 24 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/APC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/APC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.						
42	42	14.00	Numbers	84555.64	1183778.96	AT Par	1183778.96
	Description:- Supply of way station control equipment as per RDSO Spec. No. RDSO/SPN/TC/ 66/2007 with Amdt. 2 or latest with necessary mounting arrangement on composite rack or on wall as decided by site engineer. It shall be 48V DC operated, provide to give connect to at least 04 station telephone and have a facility to give more connections by using 03 way amplifier. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
43	43	16.00	Numbers	12883.74	206139.84	AT Par	206139.84
	Description:- Wiring, testing, installation & commissioning of way side equipment on the rack per station wise. (This includes supply of all materials for execution of work except way station equipment). Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after commissioning.						
	44	9.00	Numbers	714656.05	6431904.45	AT Par	6431904.45

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

44	Description:- Design, Fabrication & Supply of 1 rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 160 Gbps, unit to support L2VPN, L3 VPN, MPLS-TE, unit to be capable to support 8x10Gbe, 48x1Gbe, 64XE1, 12XSTM 1 ports or 2x8 port WDM, support multiple routing functions such as OSPF V3, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back up. The router should have console and SNMP interface, FAN Module, control card module and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 4x10Gbe, 8x1Gbe, 16 Els and 4xStm-1 interface modules from day one . The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver1.0 or latest for the LER Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
45	45	2.00	Numbers	731993.25	1463986.50	AT Par	1463986.50
	Description:- Design, Fabrication & Supply of rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 160 Gbps, unit to support L2VPN, L3 VPN, MPLS-TE, unit to be capable to support 8x10Gbe, 48x1Gbe, 64XE1, 12XSTM 1 ports or 2x8 port WD support multiple routing functions such as OSPF, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back 7 up. The router should have console and SNMP interface, FAN Module, Redundant control card modules and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 8x10Gbe interface modules from day one. The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver1.0 or latest for the LSR Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
46	46	11.00	Numbers	22670.43	249374.73	AT Par	249374.73
	Description:- Installation of IP MPLS Router and switches, with power distribution panel and all accessories in the Rack (19" 42 U), DDF, Aluminum runway ladder, patchcord etc and their testing and commissioning. This includes termination of all E1's on DDF, connection of pigtails, optical patch cords and 48 V bus to the IP MPLS equipment including supply of wires and connectors. It also includes proper mounting of rack, provision of Aluminum runway ladder, casing and capping and conduit pipe as per requirement at each station, other materials from stores supplied by Railways for installation. (Conduit pipe/ casing and capping, aluminium runway ladder and all other miscellaneous materials should be supplied by the contractor). Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after installation.						
47	47	9.00	Numbers	114200.21	1027801.89	AT Par	1027801.89
	Description:- Supply and installation of 16 port E1 Card along with Patch panel/Krone Module and wiring for Routers with all accessories etc. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after installation						
48	48	20.00	Numbers	27857.73	557154.60	AT Par	557154.60
	Description:- Supply of 4 port x10G SFP (optical) module card suitable for the IP-MPLS router . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply						
49	49	18.00	Numbers	29521.00	531378.00	AT Par	531378.00
	Description:- Supply 8 port x 1Gbe (4 no. of optical port and 4 no electrical port) module card suitable for IP-MPLS Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
50	50	4.00	Numbers	49479.20	197916.80	AT Par	197916.80
	Description:- Supply of 8 port x10G SFP(optical) module card suitable for the IP-MPLS LSR router . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
51	51	2.00	Numbers	87652.40	175304.80	AT Par	175304.80

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Supply of channelized STM-1/4 (4 port STM-1 or one port STM-4) card or 2 nos of 4/8 port x 10Gbps WDM interface module card suitable for LER/LSR along with 2 nos of SFP's (1.2 Gbps or 2.5GBps) as per site requirement Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.							
52	52	9.00	Numbers	158240.68	1424166.12	AT Par	1424166.12	
	Description:- Integration, testing and final commisioning of all IP-MPLS equipments, switches etc. at each station for all the equipment confirming with the approve sysyem design including end to end testing for realization of optical fibre system. This also includes supply of all AS made documents for the entire section (six copy) plus technical, maintenance and installation manual for IPMPLS (LER & LSR), NMS, Switches, Charger and Power Supply Unit. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.							
53	53	68.00	Numbers	10804.70	734719.60	AT Par	734719.60	
	Description:- Supply of SFP (1310nm) 1.25 GBPS as pe the site requirement for electrical 10/100/1000 MBPS support as per site condition. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.							
54	54	1.00	Numbers	1416100.00	1416100.00	AT Par	1416100.00	
	Description:- Supply & installation of NMS as per RDSO spec no. STT/TAN/IP-MPLS/2020 Ver. 2.0 or latest for Zonal/Divisional HQ, NOC with active standby system hardware and 5KVA online UPS with 1 hour backup (min 42AH battery) of APC/Numeric/Tata Libert make). This includes supply of 5 nos. portable monitoring terminal / PC workstation loaded with NMS for client for the sectional maintenance as per technical specification. One table of suitable size alongwith revolving chair, laser printer should be supplied with each terminal. Approval of make & model of portable monitoring terminal / PC workstation, furniture & Printer should be taken in advance before supply of these material from Railway. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after installation.							
55	55	9.00	Numbers	3380.53	30424.77	AT Par	30424.77	
	Description:- Supply of DC power distribution panel to cater DC power Requirement of ipmpls/STM/PD MUXES/EOW/FAN to be fixed in 19" rack. (Minimun 8 nos of DC distribution arrangement with MCB's of suitable rating for -ve connecting copper strip for +ve)) Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
56	56	9.00	Numbers	2704.84	24343.56	AT Par	24343.56	
	Description:- Supply of DDF (120 ohms) for terminating 16 Els of wrapping type and mountable on 19" rack (Maximum width 2U size). Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
57	57	5.00	Man-Week	17002.82	85014.10	AT Par	85014.10	
	Description:- Training of railway staff & officers at factory premises/railway site of manufacturer of IP-MPLS equipment or at areputed training institution as approved by Railway executive incharge. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.							
58	58	18.00	Numbers	225277.97	4055003.46	AT Par	4055003.46	
	Description:- Supply of OFC integrated access device 1U height or 1.5U height/19" rack mountable for LVCD/Digital axle counter purpose; Optical module integrated in the unit supporting dual core OFC and one 100Mbps ethernet port for surveillance/smoke detector;optical distance support to be 20Kms;unit to support one E&M module supporting four 2W/4W (each port configurable) to support axle counter/UFSBI/Control phone/EC/RTU; and one TELNET/SNMP port; unit to support DC/AC power supply;unit to support change over mechanism between quad and optical fiber for E&M interface option; one number cable to be provided along with unit for E&M; FABIO/2CX/ OFC/DC & Module2W/4W four port:make:TEAM ENGG/ FABIO/WAVES or similar/TANSY. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.							
59	59	5.00	Numbers	20807.17	104035.85	AT Par	104035.85	
	Description:- Supply of 53-PieceTelecommunication Tool Set consists of (1) 1Pc Standard Digital Multi Meter. (2) 4Pc Phillips Screwdrivers: #1x75, #1x150, #2x45, #2x100 mm. (3) 4Pc Slotted Screwdrivers: 3x75mm, 3X150, 6.5x45, 6.5x100 mm. (4) 1Pc Tape - 3m. 1Pc Utility Knife. (5) 1Pc Diagonal Pliers 6". (6) 1Pc Linesman Pliers 8". (7) 1Pc Mini hacksaw. (8) 1Pc Adjustable Wrench 10". (9) 1Pc Wire Stripper 9". (10) 10Pc Hex Key set 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8,10 min. (11) 1Pc Spinner Handle. (12) 1Pc 1/4" Drive Adapter. (13) 13Pc 1/4" Drive 6 Point Sockets : 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm. (14) 6Pc Precision Screwdriver Set OPT, 1PT, 1.4PT, 1.8mm, 2.3mm, 3.0mm. (15) 1Pc Soldering iron. (16) 1Pc Solder. (17) 1Pc Desoldering Pump. (18) 1Pc Digital Tester. (19) 1Pc Tweezers. (20) 1Pc Blow Mould Case. Make & model Stanley STH89883-812 or similar. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.							

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

60	60	2.00	Numbers	5220.11	10440.22	AT Par	10440.22	
	Description:- Portable hand held electric air blower Make:-Dewalt, Bosch, Stanley. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.							
61	61	24.00	Numbers	1548.67	37168.08	AT Par	37168.08	
	Description:- Supply of push button telephone Pulse/Tone switchable telephone setwith redial, mute, pause, flash tone, pulse facility as per TEC spec No. GR/TEL-02/04 Sept 02 with amendment 2, including latest amendment. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply							
62	62	16.00	Numbers	3718.71	59499.36	AT Par	59499.36	
	Description:- Supply & fixing of 20/24 pair C.T. Box fitted with WAGO make or similar Disconnect type Terminal blocks (Knife type cage clamp technology [Screwless] with spring loaded contact) having disconnection and reconnection facility, WAGO terminal should suitable for termination of cable from 0.4mm to 0.9mm dia. PIJF/Quad cable [Indoor type]. Inspection: Consignee. Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.							
63	63	120.00	Numbers	1518.07	182168.40	AT Par	182168.40	
	Description:- Fabrication and erection of Emergency Rail post complete with Emergency socket box made of FRP material as per Spec. No. RDSO/SPN/TC/44/2002 Ver.2 (With latest amendment) and its wiring along side the Rly. Track at locations to be indicated by the engineer (Rail post shall be supplied by Railway and issued to the contractor for execution. Emergency Socket & Emergency socket box will be procured through separate schedule of this contract and issued to the contractor for execution). All other items shall be supplied/arranged by the contractor. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after execution.							
64	64	120.00	Numbers	906.29	108754.80	AT Par	108754.80	
	Description:- Fixing of Emergency socket box made of FRP material as per Spec. No.RDSO/SPN/TC/44/2002 Ver.2 (With latest amendment) at locations to be indicated by the engineer. Emergency Socket & Emergency socket box will be procured through separate schedule of this contract and issued to the contractor for execution). All other items shall be supplied/arranged by the contractor. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after execution.							
65	65	16.00	Numbers	4902.03	78432.48	AT Par	78432.48	
	Description:- Supply of GSM 4G FCT Phone with 4G Connectivity (Fixed cellular phone) with built in battery and extendable battery charger. Make: Binatone or similar or latest Accepted Make:- beetal modal F03-4G Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply							
66	66	7.00	Numbers	1288.49	9019.43	AT Par	9019.43	
	Description:- Writing work of cable termination details of 6 Quad, OFC, PIJF Cablesand Equipment details at OFC Room/Cable hut and station building and wherever necessary as perdirection of engineer in charge per station. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after execution.							
67	67	125.00	Numbers	441.52	55190.00	AT Par	55190.00	
	Description:- Supply of 06 pin emergency plug and socket as per RDSO spec no. RDSO/SPN/42/2020 Ver. 1.1 or latest. (This item should be compatible with FRP socket box covered in SOR schedule). Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply.							
68	68	8.00	Numbers	12888.65	1031109.20	AT Par	1031109.20	
	Description:- SITC of PRS/UTS router fully loaded having 4 serial, 4 ethernet port modules & serial cable for connectivity between V.35 modem and router with on site warranty of three years. Make/brand CISCO 4221 or similar. Inspection: Consignee. Inspection Charges: None. Payment Terms: 80% after supply & 20% after commissioning.							
69	69	1600.00	Metre	675.00	1080000.00	AT Par	1080000.00	
	Description:- Supply of High Density Polyethylene Pipes (HDPE) of 110 mm HDPE Outer Dia, 10 mm Wall Thickness, along with one coupler for every 6 Meters as per specification No.IS 4984: 2016 with latest amendments and Material Grade:PE 80. Inspection: RITES. Inspection Charges: Will be borne by Railways. Payment Terms: 80% after supply & 20% after commissioning.							
70	70	15.00	Lot	11139.25	167088.75	AT Par	167088.75	
	Description:- Supply of CAT-6 500 MHz STP cable roll of 305 meter length/roll/bundle, compliant with latest EIA/TIA-568-B-2-1 standard. Make Aamernet/DC6C/AUTP3X/Digilink or similar. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
71	71	2050.00	Metre	17.36	35588.00	AT Par	35588.00	
	Description:- Supply of 1" dia heavy duty PVC conduit ISI mark /HDPE duct withaccessories like bend, tee, saddle, elbowetc. required during installation & fixingthe same.. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.							
72	72	2050.00	Metre	7.46	15293.00	AT Par	15293.00	
	Description:- Fixing of PVC Conduit pipes 25 mm (1") dia with all required fixing accessories (such as bends, metal clamp, fixture etc. as per instruction by consignee. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.							
	73	4270.00	Metre	30.57	130533.90	AT Par	130533.90	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

73	Description:- Laying of communication cable (OFC/CAT-6)/ 2 core shielded/screened multi strand cable with one inch dia PVC conduit pipe/HDPE pipe from centralized control console unit to LEDbased Train Indication Board, Coach Guidance Boards etc inside platform shelter area and outside platformshelter area. On the platform shelterwith adequate protective measures.The rate includes laying and installation/clamping charges of PVCpipe/HDPE pipe with protective arrangements in addition to laying ofcommunication cable. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.						
74	74	1.00	Numbers	752339.00	752339.00	AT Par	752339.00
	Description:- Supply of Central Data Controller (CDC) with all accessories including Central Data Switch as per RDSO spec. no. RDSO/SPN/TC/108/2019 Rev. 1.0 or latest for IP based Integrated Passenger Information system (IPIS) loaded with operating software as per RDSO specification. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
75	75	1.00	Numbers	12105.94	12105.94	AT Par	12105.94
	Description:- Installation, testing & commissioning of Central Data Controller (CDC) with all accessories including Central Data Switch as per RDSO spec. no. RDSO/SPN/TC/108/2019 Rev. 1.0 or latest for IP based Integrated Passenger Information system (IPIS) loaded with operating software as per RDSO specification. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
76	76	12.00	Numbers	6839.88	82078.56	AT Par	82078.56
	Description:- Supply & Installation of 19" 9U rack wall/pole mount with front door glass type, all doors should be removable type with all accessories like two exhaust fans, one AC multiple (6 nos of 6 Amp. socket), earthing strip copper etc. Inspection: Consignee Inspection Charges: Nil Payment Terms: 80% after supply & 20% after installation.						
77	77	1.00	Numbers	702144.52	702144.52	AT Par	702144.52
	Description:- SITC of 5 Line outdoor, multiline Train Information display Board as per RDSO Spec. No. RDSO/SPN/TC/108/2019 Rev. 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
78	78	3.00	Numbers	248443.78	745331.34	AT Par	745331.34
	Description:- SITC of double face Train formation At a Glance Display Board (AGDB) as per RDSO spec no: RDSO/SPN/TC/108/ 2019 Ver 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
79	79	2.00	Numbers	207385.76	414771.52	AT Par	414771.52
	Description:- SITC of Single line double faced TrainArrival/Departure Display Boards as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						
80	80	56.00	Numbers	33016.20	1848907.20	AT Par	1848907.20
	Description:- Supply of Double Faced Coach Guidance Display Boards as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
81	81	10.00	Numbers	4402.16	44021.60	AT Par	44021.60
	Description:- Installation & commissioning of Double Faced Coach Guidance Display Boards in shade area This includes all required accessories required including hanging structure for fixing arrangements to commissioning the item. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
82	82	42.00	Numbers	8804.32	369781.44	AT Par	369781.44
	Description:- Installation & commissioning of Double Faced Coach Guidance Display Boards in open area This includes all required accessories including hanging structure, pole and fixing arrangements to commissioning the item. Rain hood/sun guard should be provided in open area for display boards Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
83	83	2.00	Numbers	43801.49	87602.98	AT Par	87602.98
	Description:- SITC of Platform Data Controllers per RDSO/SPN/TC/108/ 2019 Ver 1.0 or latest . Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.						

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

84	84	700.00	Metre	31.49	22043.00	AT Par	22043.00	
	Description:- Supply of Single Mode 6 Fibre Armoured Optical Fibre Cable. Make MOLEX/AMP/FINOLEX or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
85	85	1.00	Numbers	165003.75	165003.75	AT Par	165003.75	
	Description:- SITC of On-Line UPS 5 KVA with battery back up of minimum 4 hrs with battery trolley of reputed make like APC/Uni-line or other reputed make with similar or better specs. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after commissioning.							
86	86	5.00	Numbers	6892.82	34464.10	AT Par	34464.10	
	Description:- Supply of self supported aluminium flatstep ladder (Confirming of ISI) 10 ft. height. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
87	87	1.00	Numbers	173413.86	173413.86	AT Par	173413.86	
	Description:- Supply & installation of remote monitoring server for IPIS as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 80% after supply & 20% after installation.							
88	88	4.00	Numbers	516700.00	2066800.00	AT Par	2066800.00	
	Description:- Supply of television of size 86" Professional, Smart LED UHD Display MODEL: Sony/Samsung or similar Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.							
89	89	4.00	Numbers	97150.74	388602.96	AT Par	388602.96	
	Description:- Supply of work station / Desktop / All in One Desktop for working on network as per Technical Specifications given in tender document. It also includes supply of Laser Printer (Only branded). Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.							
90	90	4.00	Numbers	1136.68	4546.72	AT Par	4546.72	
	Description:- Supply of HDMI 10 meter cable (Supporting 2.0). Inspection: Consignee Inspection Charges: Nil. Payment Terms: 100% after supply.							
91	91	2.00	Numbers	69000.00	138000.00	AT Par	138000.00	
	Description:- Supply of OFC branching card (SOT 18) compatible for Tejas TJ1400 STM-1 along with two numbers of compatible SFP. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after supply							
92	92	3.00	Numbers	76700.00	230100.00	AT Par	230100.00	
	Description:- Supply of XA14ET card compatible with TJ 1400 to support / connect 32 E1 120 Ohm LFH male cable to drop tributary and two No Optical ports interface for support of STM TJ 1400. Note: XA14ET card should be compatible with existing Tejas-TJ-1400 Make / Brand : TEJAS Networks Limited, Gurugram (Warranty Period : Upto 30 months from the date of supply) Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after supply							
93	93	1.00	Numbers	17843.29	17843.29	AT Par	17843.29	
	Description:- Addition/alteration in existing data logger which includes wiring, validation, software updation/modification at station and its associate LC gates if any as per approved drawings. This includes supply of wire & wiring from intermediate tag block to the data logger (if required). This item includes shifting of DATALOGGER to another room (if required) as per site feasibility. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after execution.							
S.No. Item Code Item Qty Qty Unit Unit Rate Basic Value Escl. (%) Amount Bidding Unit								
Schedule SOR-Items							211708433.39	
1	01010500	7.00	Station	624714.48	4373001.36	AT Par	4373001.36	
	Description:- Installation, wiring, testing and commissioning of EI System with 'Hot Standby' architecture as supplied upto 6 (six) line station. It includes transportation of material from consignee's depot to the site, erection and grouting of EI Relay Racks, fixing and wiring of all the interfacing relays (Vital & Non-Vital), installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached with tender document (ii) Contractor has to arrange simulator/simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signalling function.(iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time. Inspection: Consignee Inspection charges: None Payment terms: 100% after commissioning							
2	01010900	8.00	Station	86892.73	695141.84	AT Par	695141.84	
	Description:- Supply of work station note book as per Technical Specifications . It also includes supply of Laser Printer (Only branded). The workstation should be capable of reconfiguring the system in case of any alteration in yard interlocking in future. Technical Specifications should be attached with the tender document by Tendering authority. Inspection: Consignee Inspection charges: None Payment terms: 100% after supply							
	01011100	2.00	Set	125748.67	251497.34	AT Par	251497.34	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

3	Description:- Supply of Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations . (This includes tools required for EI maintenance sorts of crimping, insertion, removal, general purpose tools like screw drivers, spanners, PCB extractor, temp. controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying case/ holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at site). Each set comprises of the following :- * Crimping tool for all types of special cable assembly used in EI system. * Insertion tool for all types of special cable assembly used in EI system. *Removal tool for all types of special cable assembly used in EI system. * Digital multimeter (Fluke 111 or better) * Steel cabinet/ Almira, Size: 1980mm height, 915 mm width and 485 mm depth (Godrej Make/Jalaram) of good quality to store tool, spare cards and documents. * Steel Book rack Size: 1850mm height, 900 mm width and 316 mm depth for keeping documents. (Godrej Make/Jalaram) * Clamp Earth Tester.(as per specs mentioned in tender document.) * Clamp Current Meter (fluke 362 or superior) Inspection: Consignee Inspection charges: None Payment terms: 100% after supply						
4	01011200	20.00	Man-Days	1106.23	22124.60	AT Par	22124.60
	Description:- Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution						
5	01012100	8.00	Station	3598.62	28788.96	AT Par	28788.96
	Description:- Preparation of SWR literature in english alongwith associated mid-section interlocked gate with all corrections as per approved SWRD & approved SIP. For this all technical corrections, editing, grammatical correction etc. are to be carried out and one rough print to be given to railways for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in format provided by Rly. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
6	01012200	8.00	Station	4478.18	35825.44	AT Par	35825.44
	Description:- Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software)as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. 1.21 of Chapter 1 of this SOR. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
7	01012300	48.00	Set	178.52	8568.96	AT Par	8568.96
	Description:- Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
8	01012400	14.00	Set	22986.88	321816.32	AT Par	321816.32
	Description:- Supply of maintainer's furniture of godrej make or superior and each set consist of(i) executive revolving bearing series low back-floating chair with normal arms cushioned chair-01 Nos. (ii) Executive table size 1650x900x728 mm with 3 drawers one side locker- 01 no .(iii) visitor chair seat & back cushion with high density foam with plastic pvc handle capsule type painted back-03 nos. Inspection: Consignee Inspection charges: None Payment terms:100% after supply.						
9	02010200	7.00	Numbers	485984.88	3401894.16	AT Par	3401894.16
	Description:- Supply of Micro Processor based Data Logger System with 1280 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/Canon). It includes supply of all the items required for complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD , IPS, UFSBI, BI ,interlinking and networking of Data logger. It also includes supply of leased line MODEM , suitable online UPS (minmum 6 hours backup) and other interfacing cards, if required for networking of Data Logger.This also includes supply of one no. composite computer and printer table (Godrej work station table or similar) for keeping processor module and one number Godrej operator chair Model PCH7001 or similar. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
	02010300	7.00	Numbers	121496.22	850473.54	AT Par	850473.54

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

10	Description:- Installation, wiring, testing & commissioning of Micro Processor based Data Logger System with 1280/ 4096 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest It cover complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets, ELD , IPS, UFSBI, BI interlinking and networking of Data logger. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor.. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Networking of data logger includes extraction of data report from test room. For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of data logger by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre- Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
11	02010600	2.00	Numbers	186165.74	372331.48	AT Par	372331.48
	Description:- Supply of Micro Processor based Remote Terminal Unit (RTU) with 128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/Canon). It includes supply of all the items required for complete indoor relay room wiring from RTU to relay rack tag blocks, drawing/extension of power supply upto RTU. It includes supply of relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD (if installed) , IPS, interlinking and networking of RTU. It also includes supply of leased line MODEM , suitable online UPS (minum 6 hours backup) and other interfacing cards, if required for networking of RTU. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
12	02010700	2.00	Numbers	46541.44	93082.88	AT Par	93082.88
	Description:- Installation, wiring, testing & commissioning of Micro Processor based Remote Terminal Unit (RTU) with 128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 or latest. It cover complete indoor relay room wiring from RTU to relay rack tag blocks, drawing/extension of power supply upto RTU. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets, ELD (if installed) , IPS, interlinking and networking of RTU. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor.. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Networking of RTU includes extraction of data report from test room. For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of RTU by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre- Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
13	02011400	7.00	Numbers	163959.37	1147715.59	AT Par	1147715.59
	Description:- Supply of Failure Analysis System (FAS) as per Technical Specifications. The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee Inspection charges: Borne by Railways Payment terms:100% after supply						
14	02011500	7.00	Numbers	40989.84	286928.88	AT Par	286928.88
	Description:- Installation, testing and commissioning of Failure Analysis System (FAS) as per Technical Specifications. The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
15	02011800	2.00	Set	24379.01	48758.02	AT Par	48758.02
	Description:- Supply of T-Networking equipments suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose e.g. modems and network accessories. Inspection: Consignee, Inspection charges: None Payment terms:100% after supply						
16	02011900	2.00	Set	6094.75	12189.50	AT Par	12189.50
	Description:- Commissioning of T-Networking suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose. Inspection: Consignee, Inspection charges: None Payment terms:100 % after commissioning						
	02012000	7.00	Numbers	26250.00	183750.00	AT Par	183750.00

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

17	Description:- Supply of 750 VA Off line UPS with battery backup 3 Hours for Failure Analysis System of reputed make of Emerson/APC or superior as per Engineer in-charge. Inspection: Consignee, Inspection charges: None Payment terms:100 % after supply.						
18	03010200	14.00	Numbers	1836.67	25713.38	AT Par	25713.38
18	Description:- Supply of Relay fail safe electronic time delay device with fixed timing (0 -120) seconds and conforming to RDSO Specn.No.IRS:S-61/2000 with Amnd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc.The interlocking code for this unit shall be ""AFGKY"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
19	03011600	56.00	Numbers	4812.82	269517.92	AT Par	269517.92
19	Description:- Supply of DC neutral line relay QNA1K , AC immune, DC neutral line 24V, 6F/6B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS:931A & RDSO letter no STs/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest.The interlocking code for this unit shall be ""CDEKY"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
19	03010300	5.00	Numbers	2093.91	10469.55	AT Par	10469.55
19	Description:- Supply of Relay fail safe electronic time delay device with fixed timing (0 @ 45<41@ seconds and conforming to RDSO Specn.No.IRS:S-61/2000 with Amnd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc.The interlocking code for this unit shall be ""AFHKY"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
20	03012500	42.00	Numbers	9440.00	396480.00	AT Par	396480.00
20	Description:- Supply of Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with case, RDSO spec no. RDSO/SPN/219/2016 ver 1.0 or latest, confirming to IRS S-23, S-34 & S@ 45<44@ IRS S:46. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:- Bornee by Railways Payment Terms:- 100% after supply.						
21	04010700	7.00	Station	38132.15	266925.05	AT Par	266925.05
21	Description:- Supply of wiring material in relay room for potential free relay contacts for digital & analog Inputs (1280 digital inputs and 32 analog inputs). It includes supply of PVC insulated indoor Railway Signalling cable (1/0.6 sqmm dia), 60-Core/40-Core/Single Core as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest, PVC insulated jumper wires multi strand, tinned in all colours as per RDSO Specn.No. IRS: S-76/89 (Amnd.3) or latest. The item also includes supply & wiring of Modular disconnect terminals /Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751 or latest. The wiring for getting potential free contacts of relays for complete PI/RR/I/El installation including points, tracks, signals, panel, power supply, IPS, SSDAC,TLBI,LC Gates, crank handle control etc will be done by contractor. All material will be supplied by contractor except the relays. The Relays will be supplied by Railway. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Installation & commissioning						
22	04011100	10.00	Numbers	46394.04	463940.40	AT Par	463940.40
22	Description:- Supply of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. The relay racks shall be supplied & completed with scaffolding, bus bars, fuse strips, fuses (G/NDT), fuse bases, resistors, capacitors, insulators and 200-Way tag blocks with poly carbonate covers, grouting bolts, tripods etc. It includes supply of Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751. The top of relay racks will be supported through an angle iron with one side fixed on supporting wall. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
23	04011200	10.00	Numbers	11598.51	115985.10	AT Par	115985.10
23	Description:- Erection of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. The relay racks shall be completed with scaffolding, bus bars, fuse strips, fuses (G/NDT), fuse bases, resistors, capacitors, insulators and 200-Way tag blocks with poly carbonate covers, grouting bolts, tripods etc. It includes fixing of Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751. The top of relay racks will be supported through an angle iron with one side fixed on supporting wall. After installation of relay racks, one coat of paint will be done by contractor before fixing the fuses. Scaffolding should include 1 relay rack position as spare at every Station/ Level Crossing Gate for future expansion. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on execution						
24	04011300	30.00	Numbers	22732.41	681972.30	AT Par	681972.30
24							

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Supply of Cable Termination(CT) racks as per Drg.No.CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals / ARA terminals not covered under this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
25	04011400	30.00	Numbers	8687.12	260613.60	AT Par	260613.60
	Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on NWR & the instruction of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on commissioning.						
26	04011500	47000.00	Numbers	87.41	4108270.00	AT Par	4108270.00
	Description:- Supply of ARA Terminal Block (M-6) made of PBT/Poly Carbonate as per RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest and RDSO Drg.No. SA-23741A(Alt. 4) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.						
27	04011600	1900.00	Numbers	152.98	290662.00	AT Par	290662.00
	Description:- Supply of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. 4) or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.						
28	04011900	1900.00	Numbers	54.64	103816.00	AT Par	103816.00
	Description:- Supply of round head type non-deteriorating type low voltage cartridge fuse as per RDSO Specn.No.IRS:S-78/92 or latest and Capacity - 2/4/6/10A/16A/20A Amp. (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.						
29	04012801	18600.00	Numbers	54.63	1016118.00	AT Par	1016118.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)						
30	04012802	18600.00	Numbers	10.24	190464.00	AT Par	190464.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End plate for item 4.28(i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement.						
31	04012803	617.00	Numbers	10.24	6318.08	AT Par	6318.08
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End Stopper for item 4.28(i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement.						
32	04012804	400.00	Metre	106.98	42792.00	AT Par	42792.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Carrier Rails for item 4.28(i) of Chapter 4 of revised SOR 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.						
33	04012805	18600.00	Numbers	15.93	296298.00	AT Par	296298.00

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

33	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Markers strip for item 4.28(i) of Chapter 4 of revised SOR						
	04013400	50.00	Per Unit	29277.62	1463881.00	AT Par	1463881.00
34	Description:- Supply of Fuse auto changeover system for Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 32 nos. of external Non Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply. (Per Unit should be read as Per Module)						
	04013500	10.00	Per Unit	48285.03	482850.30	AT Par	482850.30
35	Description:- Supply of Fuse auto changeover system for Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 24 nos. of external Non Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply. (Per Unit should be read as Per Module)						
	04013600	60.00	Per Unit	885.44	53126.40	AT Par	53126.40
36	Description:- Installation wiring testing and commissioning of Fuse change over system (FACS). This includes provision of common Buzzer & indication at ASM Room & ESM Duty Room and painting of fuse details. This also includes fabrication of frame for installation of FACS at Station/ LC gate where installation of relay racks not feasible. Inspection: Consignee Inspection charges: None Payment Terms: 100% on commissioning (Per Unit should be read as Per Module)						
	05011401	7.00	Numbers	103449.88	724149.16	AT Par	724149.16
37	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution For Station						
	05011402	1.00	Numbers	36592.19	36592.19	AT Par	36592.19
38	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution For LC gate/IBS/ ALH Hut/ Portacabin						
	05012400	7.00	Numbers	122346.29	856424.03	AT Par	856424.03
39	Description:- Supply of Self Regulating Type Battery Charger, 230V AC/110V DC, 50 Amps as per RDSO Specn.No.IRS:S-86/2000 (Amnd.4) or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply						
	05012601	567.00	Numbers	2067.93	1172516.31	AT Par	1172516.31
40	Description:- Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply. 2V, 80 AH						

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

40	05012000	3.00	Numbers	38460.29	115380.87	AT Par	115380.87	
	Description:- Supply of Self Regulating Type Battery Charger,230V AC/24V DC, 25 Amps as per RDSO Specn.No.IRS:S-86/2000 (Amnd.4) or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply							
41	05012602	60.00	Numbers	5665.46	339927.60	AT Par	339927.60	
	Description:- Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply. 2 V, 200 AH							
42	05012701	567.00	Numbers	371.02	210368.34	AT Par	210368.34	
	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 80AH							
43	05012702	60.00	Numbers	985.59	59135.40	AT Par	59135.40	
	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 200AH							
44	05015800	7.00	Numbers	66992.10	468944.70	AT Par	468944.70	
	Description:- Supply of active lightening arrester of Class A for building protection as per standard NFC-17-102. It shall work on early streamer emission principle & shall be made of stainless steel with a T of 60 microseconds. Non resettable type counter shall also be supplied to count the number of lightening occurrences. It also includes supply of electrolytic copper tape of 25mmX2mm or better for connecting class A device to the earth pit. This include installation, testing and commissioning of Class A device on the top of the building. This device shall be installed at suitable height on the roof of the building using a GI mast as per instructions of Railway engineer at Site. The device shall be connected to earth pit using a copper tape of 25mm x 2mm or better. This copper tape shall be run firmly only the site of the mast with the help of spacers. It shall also be ensured that the down conductor shall not touch the building throughout. the down conductor shall be connected to the earth electrode using exothermic welding. A counter shall be installed at appropriate space to count the number of occurrence. All the accessories like spacers, welding material etc. required for installation shall be arranged by the contractor. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.							
45	06010800	50.00	Numbers	113610.00	5680500.00	AT Par	5680500.00	
	Description:- Supply of ELECTRIC POINT MACHINE ROTARY LOCKING TYPE HIGH THRUST OF 220 MM THROW, AC IMMUNITY 160 VOLT AC, NON - TRAILABLE TO OPERATE ON 110 V DC COMPLETE WITH LOCK AND DETECTOR SLIDES AND CABLE TERMINATION BOX, AS PER RDSO SPECIFICATION NO. IRS : S- 24/2002 AMENDMENT - 1 OR LATEST AS PER DRAWING.NO. RDSO/S-11000 WITH EXTERNAL CLAMP POINT LOCK AS PER DRG. NO. RDSO/S-3395 AND WITH COMPLETE SET OF GROUND CONNECTIONS WITH NYLON INSULATIONS AS PER DRG. NO. RDSO/S-3454 FOR 60Kg RAILS. THICK WEB SWITCH. LATEST ALTERATIONS IF ANY ARE APPLICABLE TO BOTH DRAWINGS. This includes supply of Set of tools as per para20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) or latest 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less. i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 alongwith compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.							
46	07010100	203.00	Numbers	4505.12	914539.36	AT Par	914539.36	
	Description:- Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.							
47	07010200	203.00	Numbers	1439.17	292151.51	AT Par	292151.51	
	Description:- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161-66/M or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.							
	07010300	189.00	Per Track Circuit	6354.01	1200907.89	AT Par	1200907.89	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

48	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, B type choke etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make teminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays, ARA terminal/Modular terminals wago/phoenix contact type will be supplied by Railways / covered in Schedule separately). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
	07010400	189.00	Per Track Circuit	7952.90	1503098.10	AT Par	1503098.10
49	Description:- Installation of DC track circuits covering all types of Track circuits including points zones also.The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of 7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint(if required), fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. In case Engineer at site desires that jumpering from TLJBs is to be done using signalling cable 2 coreX 2.5 sqmm , contractor shall provide the jumpering cable using 2 X 2.5 sqmm signalling cable.The signalling cable will be supplied by Railways. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item does not include includes supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs Installation of of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. (a) Installation and commissioning of TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc. (b) Installation and commissioning of Each TLJB having two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be wired and fixed properly. (c) Installation of HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) Installation of the FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts.The TLJB and the angles for stump should be fixed in given holes on them for fixing using galvanised nuts and bolts . Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
	07010500	1134.00	Numbers	1778.40	2016705.60	AT Par	2016705.60
50	Description:- Supply of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. The technical specifications are as follows: (a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc. (b) Each TLJB shall have two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be supplied. (c) HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts.The TLJB and the agles for stump should come alongwith holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied alongwith TLJB drawing no. 11509. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	07010700	392.00	Numbers	4098.94	1606784.48	AT Par	1606784.48
52	Description:- Supply of B Type Choke as per RDSO Specn.No.IRS:S-65/83 (Amnd. 1) or latest. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after supply.						
	07011100	35.00	Numbers	257.21	9002.35	AT Par	9002.35
53	Description:- Supply of Hydrometer, Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
	07012301	1.00	Set	104325.07	104325.07	AT Par	104325.07
54							

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Supply of Tools Kit for High frequency Digital Axle Counter Multi section Supply of Service test panel including meter for test of track equipment, tools for mounting and adjustment of track equipment and standard jig for drilling holes in rail. It should be as per Principal manufacturers (OEM) recommended list adequate for installation, day to day maintenance, and adjustment of indoor and outdoor gears. This shall also include kit for making and drilling of holes on rail. Detail Specification of tools kit are provided in tender document. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
55	07012302	1.00	Set	88247.14	88247.14	AT Par	88247.14
	Description:- Supply of Tools Kit for High frequency Digital Axle Counter Multi section Supply of Portable operator console for onsite programming of Axle Counters as per technical requirement given in tender document. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
56	07012404	14.00	Set	261222.40	3657113.60	AT Par	3657113.60
	Description:- Supply of spares for High frequency Digital Axle Counter Multi section Supply of Double Rail contact assembly with track side EJB for MSDAC. Each set shall consist of track side Electronic unit, Double rail contact with cable and mounting accessories. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
57	07012600	7.00	Set	19999.83	139998.81	AT Par	139998.81
	Description:- Installation testing & commissioning of High Availability Single Section digital axle counter (HASSDAC) single section type system complete with track devices and other associated accessories. This include fixing of device, relays, wiring, lacing /dressing, cable termination with lug eyelet, drilling holes in rails, Installation of track devices and make it functional along with existing UFSBI/blockinstrument. Material required other then supply item of HASSDAC in item no. 7.25 of SOR shall be arranged by contactor to make it functional. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
58	07013000	2.00	Set	126868.56	253737.12	AT Par	253737.12
	Description:- Supply of Standard Tool kits, Test and Measuring instruments required for Installation, testing, commissioning & maintenance of HASSDAC. Kit will includes all tools & measuring instruments as per ANNEXURE (Annexure shall be attached with Tender Document) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
59	08010400	500.00	Numbers	178.89	89445.00	AT Par	89445.00
	Description:- Installation of LED signals lamps for auxiliary/subsidiary signals/main signals (i.e. route, shunt , calling on, Red , Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
60	08010500	118.00	Numbers	10791.46	1273392.28	AT Par	1273392.28
	Description:- Supply of Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 =1 No , Number plate clamps to Drawing No. S 23148 Alt.1 =2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1(1No), Platform to Drawing No. SA 23134 Alt.1(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.)Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent NWR Practice. Note: Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
60	07014100	2.00	Numbers	8051.14	16102.28	AT Par	16102.28
	Description:- Supply of hand operated track drilling machine for bonding hole. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
61	08010600	14.00	Numbers	4462.49	62474.86	AT Par	62474.86
	Description:- Supply of Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	08010801	13.00	Numbers	3227.65	41959.45	AT Par	41959.45

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

62	Description:- Erection of CLS Post with base and signal unit on top or on OFFset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3/4/5/6 or multilamp lamp route indicators/Stencil type rout indicator mounted on signal post.						
63	08010802	97.00	Numbers	2187.43	212180.71	AT Par	212180.71
63	Description:- Erection of CLS Post with base and signal unit on top or on OFFset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted mounted directly on signal post.						
64	08010900	53.00	Numbers	26768.11	1418709.83	AT Par	1418709.83
64	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
65	08011000	65.00	Numbers	28042.78	1822780.70	AT Par	1822780.70
65	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
66	08011200	27.00	Set	4297.47	116031.69	AT Par	116031.69
66	Description:- Supply of Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
67	08011300	27.00	Numbers	1779.99	48059.73	AT Par	48059.73
67	Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
68	08011400	12.00	Numbers	3358.53	40302.36	AT Par	40302.36
68	Description:- Supply of Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item)Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
69	08011500	12.00	Numbers	1967.77	23613.24	AT Par	23613.24
69	Description:- Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
70	08011600	1.00	Numbers	19835.94	19835.94	AT Par	19835.94
70	Description:- Supply of Junction route indicator unit 1 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23401 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	08011700	14.00	Numbers	20490.35	286864.90	AT Par	286864.90

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

71	Description:- Supply of Junction route indicator unit 2 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23402 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
72	08011800	2.00	Numbers	24051.47	48102.94	AT Par	48102.94
72	Description:- Supply of Junction route indicator unit 3 ways (Without Lenses & Holder) as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
73	08012400	14.00	Numbers	2550.48	35706.72	AT Par	35706.72
73	Description:- Supply of Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv) Alt1 suitable to LED Signal Lighting Unit. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
74	08012600	14.00	Numbers	2325.14	32551.96	AT Par	32551.96
74	Description:- Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /'A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply of bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /'A' sign/ 'AG' sign unit as per standard practice. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
75	08012800	14.00	Numbers	4637.76	64928.64	AT Par	64928.64
75	Description:- Supply of Different warning Boards / Calling on Board used for Railway Signalling system as per RDSO Drg. No. SA2380 (Adv). This includes Painting and retro reflective arrangement should be as per SEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
76	08012900	14.00	Numbers	334.60	4684.40	AT Par	4684.40
76	Description:- Fixing of Stop Board, Block section limit Board, Shunting Limit Board, goods warning board , Calling on Board with contractors own material. This excludes supply of Stop Board / Block section limit Board / Goods warning board/Calling on board. The work shall be done as per instruction of Rly Engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
77	08013000	42.00	Numbers	1223.46	51385.32	AT Par	51385.32
77	Description:- Supply, Fabrication and fixing of Signal Number Plate(CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
78	08013200	118.00	Numbers	9361.50	1104657.00	AT Par	1104657.00
78	Description:- Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
79	08013300	27.00	Numbers	6310.26	170377.02	AT Par	170377.02
79	Description:- Casting of C.C. Foundation for Position Light Shunt Signal/ Indicator/SPI as per Drg.No.CSTE/NWR/SOR/ 22 in ratio 1:3:6 by using standard size of galvanized holding down/foundation bolts. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor. Note: As per available site conditions, if sizes of foundations are required to be decreased/ increased and same has been approved/agreed by engineer incharge then variation in CC work will be calculated on volumetric basis as per rates of these items. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation. ."						
80	08013100	14.00	Numbers	5087.65	71227.10	AT Par	71227.10
80	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
	08013400	6079.00	cum	4323.85	26284684.15	AT Par	26284684.15

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

81	Description:- Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.(Unit is per cubic meter)						
82	09010100	3.00	Set	433500.01	1300500.03	AT Par	1300500.03
	Description:- Supply of Electrically Operated Lifting Barrier complete set suitable for 110VDC/24V DC (option to be specified in tender specifically of either 110 V DC or 24V DC)supply without hand generator back up & motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting 02 Nos of Barriers of length 09.76 Mtrs. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2 as below 10.1 Following spares shall be supplied alongwith each set (02 nos.) of Electric lifting barrier as per requirement of the purchaser i) GI boom - 1 no. complete. ii) Belt - 1 no. iii) Crank handle - 1 no. iv) Motor Contactor - 1 no. v) Motor protection MCB- 1 no. vi) Push button complete- 2 nos. vii) Limit switch - 3 nos. (1 lever type and 2 top roller type) viii) Fuses used - 2 sets 10.2 Tool kit consisting of standard sizes of wrinch/ spanner and Allen keys should also be supplied with each set (02 nos.) of Electric Lifting barrier. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
83	09010200	3.00	LC Gate	46739.49	140218.47	AT Par	140218.47
	Description:- Installation, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing, wiring etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning						
84	09010400	3.00	Set	5188.92	15566.76	AT Par	15566.76
	Description:- Supply of Dual Tone Bell /Buzzer with Flasher arrangement and 20 Watt horn working on 24 V DC/ 110 V AC for warning road users at LC gates. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
85	09010600	2.00	Set	136768.89	273537.78	AT Par	273537.78
	Description:- Supply of Sliding type mechanical Boom barrier assembly 11 to 12 Meter Long, movement drive mechanism, resetting & supporting stand suitable for Mechanical/Electrical level crossing gate as an emergency arrangements as per Drg. mentioned in the tender document. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply						
86	09010700	2.00	LC Gate	15308.58	30617.16	AT Par	30617.16
	Description:- Installation & commissioning of Sliding booms with E type lock and KLCR. This includes wiring of KLCR, running of cables, necessary painting & transportation of materials from store to site. All material required to commissioning of slide booms on gate will be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning						
87	09010800	2.00	LC Gate	29388.02	58776.04	AT Par	58776.04
	Description:- Casting of CC foundations in the ratio of 1:3:6 for sliding boom as per Drg. Minimum 10 Nos of foundation per set shall be cast using standard size holding down bolts & nuts for erection. Item include excavation, ramming, curing and plastering 1:4 cement and sand mixture. Aggregate, cement, sand and holding down bolts & nuts to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation						
88	09011200	1.00	Set	58269.58	58269.58	AT Par	58269.58
	Description:- Supply of LED type control-cum indication panel complete with prewired Tag- Blocks, Wires MS angles etc. for LC gate , depicting the yard layout Signal, Point, Track circuit, Operating / emergency Push Button, counter with sealing arrangements, house in a Steel metal cabinet. This shall be consist 15 x 10 exchangeable Domino Unit as per Spec. SPN/186/2004 ver. 1 or latest amendment Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
89	09011300	1.00	Numbers	7031.18	7031.18	AT Par	7031.18
	Description:- Installation and complete wiring of operating cum indication panel for LC gate as per technical specification and site requirement. The indoor wiring inside panel shall be terminated on tag block as per instructions of Engineer-in-charge. The wiring on panel tag blocks shall be repeated on tag blocks located in relay room. This includes laying & termination of cable, if any from Panel Room to Relay Room in HDPE pipe. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation						
90	10011400	21.00	Numbers	16271.42	341699.82	AT Par	341699.82
	Description:- Supply of Steel Plain Almirah with 4 adjustable slavesSize: 1980mm height, 915 mm width and 485 mm depth.Make: Godrej Storewel Plain Large or Similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
	10011700	7.00	Numbers	50166.35	351164.45	AT Par	351164.45

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

91	Description:- Supply of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1 Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest. Each loop shall have capacity of 127 analogue addressable devices in 1 loop, the panel shall have sufficient nos. of programmable relay control for controlling AHU's, pressurisation fans, ventilation fans at fire pump room, monitoring of fire sprinkler & sealed lead acid batteries sufficient for 24 Hours normal working & then capable of operating the system for 24 Hours during Emergency conditions as required. The panel shall have provision of connectivity of BACNET/ MODBUS/ LONWOK/TCP-IP. The panel shall have dedicated RS232 serial port for direct PC or MODEM connection, optional remote printer as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
92	10011800	7.00	Numbers	12541.59	87791.13	AT Par	87791.13
92	Description:- Installation ,Testing and Commissioning of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1 Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
93	10011900	7.00	Numbers	5367.29	37571.03	AT Par	37571.03
93	Description:- Supply of Probe type bimetallic Heat Sensor/Fixed cum ROR 90 degree with required module to be communicated with main fire Alarm Panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
94	10012000	7.00	Numbers	1341.82	9392.74	AT Par	9392.74
94	Description:- Installation ,Testing and Commissioning of Probe type bimetallic Heat Sensor/Fixed cum ROR 90 degree with required module to be communicated with main fire Alarm Panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
97	10012100	98.00	Numbers	2737.45	268270.10	AT Par	268270.10
97	Description:- Supply of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation and high tolerance to dust, dirt, temperature fluctuations and air current. Detector should have unique address for communication and assigned through panel with mounting base as required with the protection category of IP 40. All items as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
98	10012200	98.00	Numbers	684.36	67067.28	AT Par	67067.28
98	Description:- Installation, testing and commissioning of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges:Borne by Railways Payment Terms: 100% after commissioning						
99	10012300	14.00	Numbers	2865.44	40116.16	AT Par	40116.16
99	Description:- Supply of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
100	10012400	14.00	Numbers	716.36	10029.04	AT Par	10029.04
100	Description:- Installation ,Testing and Commissioning of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
101	10012500	7.00	Numbers	53605.32	375237.24	AT Par	375237.24
101	Description:- Supply of UV/IR Type Flame detector with required module to communicate on main fire alarm panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
102	10012600	7.00	Numbers	13401.33	93809.31	AT Par	93809.31
102	Description:- Installation ,Testing and Commissioning of UV/IR Type Flame detector with required module to communicate on main fire alarm panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
103	10012700	800.00	Metre	599.26	479408.00	AT Par	479408.00
103	Description:- Supply of Linear Heat Sensing (LHS) cable as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
104	10012800	800.00	Metre	149.82	119856.00	AT Par	119856.00
104							

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Installation of Linear Heat sensing (LHS) cable as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
105	10012900	7.00	Numbers	25189.84	176328.88	AT Par	176328.88
	Description:- Supply of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
106	10013000	7.00	Numbers	6297.46	44082.22	AT Par	44082.22
	Description:- Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
107	10013100	7.00	Set	115235.80	806650.60	AT Par	806650.60
	Description:- Supply of Air Sampling Type detector shall use LASER type. This type of detector shall use piping or tubing distribution network that shall run from the detector to the area as to be protected. It should be supplied with required module & Power supply unit complete as a system with all accessories like pipes, Sampling points etc as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
108	10013200	7.00	Set	28808.95	201662.65	AT Par	201662.65
	Description:- Installation ,Testing and Commissioning of Air Sampling Type detector (it shall use LASER type) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
109	10013300	14.00	Numbers	6435.92	90102.88	AT Par	90102.88
	Description:- Supply of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
110	10013400	14.00	Numbers	1608.98	22525.72	AT Par	22525.72
	Description:- Installation, testing and commissioning of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.						
111	10013500	7.00	Lot	27324.36	191270.52	AT Par	191270.52
	Description:- Supply of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
112	10013600	7.00	Lot	6831.09	47817.63	AT Par	47817.63
	Description:- Installation ,Testing and Commissioning of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
113	10013700	42.00	Numbers	5301.70	222671.40	AT Par	222671.40
	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30) ° to (50) ° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
114	11010100	295.00	Numbers	14945.53	4408931.35	AT Par	4408931.35
	Description:- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
115	11010200	295.00	Numbers	1039.09	306531.55	AT Par	306531.55
	Description:- Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
	11010300	264.00	Numbers	9439.40	2492001.60	AT Par	2492001.60

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

116	Description:- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
117	11010400	264.00	Numbers	632.78	167053.92	AT Par	167053.92
117	Description:- Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
118	11010801	295.00	Numbers	6888.92	2032231.40	AT Par	2032231.40
118	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single (Large) Case Apparatus case / SS location box as per Drg No. CSTE/5074						
119	11010802	264.00	Numbers	5259.16	1388418.24	AT Par	1388418.24
119	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half (Medium) Case Apparatus case / SS location box as per Drg No CSTE/5074						
120	11010900	280.00	Numbers	9563.45	2677766.00	AT Par	2677766.00
120	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
121	11011000	37.00	Numbers	4855.13	179639.81	AT Par	179639.81
121	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 12 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
122	11011201	295.00	Numbers	2344.49	691624.55	AT Par	691624.55
122	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single Case (Large Case)						
123	11011202	264.00	Numbers	684.00	180576.00	AT Par	180576.00
123	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half Case (Medium Case)						
124	11011300	13120.00	Numbers	12.52	164262.40	AT Par	164262.40
124	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. (Supply of all above terminals have been covered separately in Chapter 4 of SOR) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
125	11011700	295.00	Numbers	29.59	8729.05	AT Par	8729.05
125	Description:- Supply of Tic-tac Piano type Switches , 5A (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
126	11011800	295.00	Numbers	44.39	13095.05	AT Par	13095.05
126	Description:- Supply of two pin Lamp holder Bakelite type for Apparatus Cases (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
	11012000	25.00	Numbers	2193.20	54830.00	AT Par	54830.00

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

127	Description:- Fixing of KLCR relays in field in half location boxes if Gate lodge is not provided or at any other location as decided by engineer in charge. Item includes supply and fixing of MS sheet and wiring of KLCR relays, push buttons and LEDs for KLCR circuit. The KLCR relays, push buttons, LEDs will be fixed on a MS sheet of min. 3mm in the half location box. The MS sheet will cover full length and breadth of the half location box and divided in two pieces of approx. 48cm x 46cm and 80cm x 46cm. The first piece to be fitted on top and will contain the KLCR relays, LEDs and push buttons. The second piece to be fitted below the first piece. (Supply of KLCR relays covered in separate item of SOR). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
128	12010200	3350.00	Metre	760.66	2548211.00	AT Par	2548211.00
	Description:- Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
129	12010300	3350.00	Metre	190.17	637069.50	AT Par	637069.50
	Description:- Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
130	12010400	2000.00	Metre	390.52	781040.00	AT Par	781040.00
	Description:- Supply of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
131	12010500	2000.00	Metre	97.63	195260.00	AT Par	195260.00
	Description:- Fixing of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes installation of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe along with any masonry work(if required) will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation.						
132	12010601	2800.00	Metre	14.80	41440.00	AT Par	41440.00
	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. Lengthwise (up to 2 cables).(Unit is per RM Running Meter)						
133	12010602	28000.00	Metre	31.87	892360.00	AT Par	892360.00
	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. widthwise (more than 2 cables).(Unit is per RM Running Meter)						
134	12010700	800.00	Numbers	1798.20	1438560.00	AT Par	1438560.00
	Description:- Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia,& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
	12010900	660.00	Metre	383.47	253090.20	AT Par	253090.20

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

135	Description:- Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia, & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
	12011600	5460.00	Metre	29.59	161561.40	AT Par	161561.40
136	Description:- Placing of DWC HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is RM running meter.)						
	12011700	17500.00	Numbers	678.31	11870425.00	AT Par	11870425.00
137	Description:- Supply of Half Round RCC pipes & collars of 300 mm outer dia & 250 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	12011800	17500.00	Numbers	333.46	5835550.00	AT Par	5835550.00
138	Description:- Supply of Half Round RCC pipes & collars of 150 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	12011900	70000.00	Metre	21.62	1513400.00	AT Par	1513400.00
139	Description:- Laying of half round RCC pipe after laying the cables in the trenches. (Cable laying is covered separately) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.(Unit is RM running meter)						
	12012000	150.00	Numbers	2148.73	322309.50	AT Par	322309.50
140	Description:- Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC-77/2012 revision 3 With latest Amd. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply						
	12012100	140.00	Numbers	1157.45	162043.00	AT Par	162043.00
141	Description:- Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12012200	15050.00	Metre	1202.97	18104698.50	AT Par	18104698.50
142	Description:- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine(HDD machine). The bore shall be upto 200 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contactor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
	12012300	3300.00	Metre	122.74	405042.00	AT Par	405042.00
143	Description:- Horizontal Drilling by using manual pushing method at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge .Pipe Supply is not covered under this item Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12012500	4500.00	Numbers	328.68	1479060.00	AT Par	1479060.00
144	Description:- Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
	12012600	4500.00	Numbers	82.17	369765.00	AT Par	369765.00
145	Description:- Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
	12012900	200.00	Metre	328.91	65782.00	AT Par	65782.00
146							

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Providing 25 mm thick mastic asphalt flooring on broken portion of platform due to execution of trenches. Proportionate payment will be made for other depth. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.(Unit is RM running meter)						
147	12013000	200.00	Numbers	93.32	18664.00	AT Par	18664.00
	Description:- Removal of Rail (13 mtrs.) in the way of cable route. In case of panel (39 Mtrs. Each) will be consider as three rails for payment purpose. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
148	12013100	200.00	Kilometre	93.32	18664.00	AT Par	18664.00
	Description:- Removal of PRC Sleeper in the way of cable route. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
149	12013700	58432.00	cum	274.28	16026728.96	AT Par	16026728.96
	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of Railway Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
150	12013800	200.00	cum	274.28	54856.00	AT Par	54856.00
	Description:- Digging of trench 1.2 Mtrs. deep from rail flange/ road level and 0.3 Mtrs to 0.6 Mtrs wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No.CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
151	12013900	6002.00	cum	503.04	3019246.08	AT Par	3019246.08
	Description:- Digging of cable trench 0.3 Mtrs. Deep and 0.3 Mtrs. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches.The sharp edges will be smoothened out in bottom of the chase and will be leveled properly. In hard rocky ground area , cables will be laid normally on layer of shifted earth of 0.05 mtrs thickness previously deposited at bottom of the trench and cables will be covered with layer of sand or shifted earth of 0.1 mtr thickness. In case sharp edges of rocky ground can not be protected from shifted earth then GI/ CI /PVC /DWC/ HDPE pipes will be used, if numbers of cables is small.In case number of cables are large RCC duct will be used. In isolated cases, it can be given smooth surface by using either masonry bricks or cement concrete. A row of bricks shall then be placed length wise on the top and jointed with cement mortar and layer of concrete with cement plaster shall be provided on top of the same. Note: This item in hard rocky area will be operated only where normal depth i.e.1.2 mtr is not possible and it will be decided by site engineer/unit officer incharge of work. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
152	12014000	14.00	Numbers	12506.58	175092.12	AT Par	175092.12
	Description:- Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
153	12014100	812444.00	Metre	9.10	7393240.40	AT Par	7393240.40
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometer post.(Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(unit is RM running meter)						
154	12014300	24.00	cum	1990.54	47772.96	AT Par	47772.96
	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is cubic meter)						
155	13010100	7.00	Numbers	158443.22	1109102.54	AT Par	1109102.54
	Description:- Supply of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

156	13010200	7.00	Numbers	39610.81	277275.67	AT Par	277275.67	
	Description:- Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. This includes supply of fuse terminal strip for incoming power supply wires. On job training at site will be given by OEM engineer for installation and maintenance of ELD. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.							
157	13010300	89.00	Lot	17530.73	1560234.97	AT Par	1560234.97	
	Description:- Supply of basic material to construct unit maintenance free earth as per RDSO Specs. No RDSO/SPN/197/2008 or latest and conforming to RDSO Drg.No.SDO/ RDSO/E&B/001 dtd.19.09.08 . It consist of following: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (ii) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate. (minimum 10 meter) (iii) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (iv) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (v) Supply of copper lug sleeve for 3/16 cable Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
158	13010400	89.00	Set	7861.68	699689.52	AT Par	699689.52	
	Description:- Installation of Unit Maintenance Free Earth as supplied under item no. 13.3 of Chapter 13 of SOR . It includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note: The installation of this item shall be carried out by the contractor as per RDSO Specn.No.RDSO/SPN/ 197/2008 or latest and conforming to RDSO Drg.No.S DO/RDSO/E&B/001 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution and testing.							
159	13010700	7.00	Station	151992.97	1063950.79	AT Par	1063950.79	
	Description:- Provision of Ring Earth for EI system which includes supply of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equip- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest, will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (f) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (h) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve for 3/16 cable Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
	13010800	7.00	Station	37998.24	265987.68	AT Par	265987.68	

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

160	Description:- Installation, testing and commissioning of Ring Earth for EI system which includes installation of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equip- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. Installation of one earth pit includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.						
161	13011000	12.00	Numbers	44045.61	528547.32	AT Par	528547.32
162	13011200	4.00	Numbers	84854.46	339417.84	AT Par	339417.84
163	13011300	3.00	Numbers	416265.75	1248797.25	AT Par	1248797.25
164	13011500	6.00	Numbers	8689.42	52136.52	AT Par	52136.52
165	13011700	2.00	Numbers	57230.47	114460.94	AT Par	114460.94
166	13011800	6.00	Numbers	8758.40	52550.40	AT Par	52550.40
167	14010200	6.00	Numbers	1052.83	6316.98	AT Par	6316.98
168	14010300	2.00	Numbers	22344.97	44689.94	AT Par	44689.94
169	14010400	150.00	Numbers	111.94	16791.00	AT Par	16791.00
	14010600	8.00	Numbers	2460.28	19682.24	AT Par	19682.24

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

1/0	Description:- Supply of Obstruction test piece 3mm/5mm as per sample approved by Engineer incharge. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
171	14011300	1.00	Station	53251.72	53251.72	AT Par	53251.72
	Description:- Dismantling of existing lever frames/signal fittings/point fittings/lifting barriers (within station limit)/indoor and outdoor equipment and all other released material of S&T at way side station (3/4 Line). All the released material will be transported to the place/location as decided by site engineer. The item includes i). Mechanical Signalling gears like levers, down rods, locking trough, Rodding, wire transmission, signal posts and hoods etc. ii). Electrical Signalling gears like relays, batteries, indicators, SM slide control and all released wire transmission for slot, telephone, selector control and their related items etc. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
172	14011401	7.00	MT	628.23	4397.61	AT Par	4397.61
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution(Unit is metric ton)						
173	14011402	2800.00	MT-Km	5.69	15932.00	AT Par	15932.00
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.The work is to be done as per the instructions of Railway Representative at site. Consignee will also provide gate pass / road permit to the transporter. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Extra for each additional 1 Km or part thereof. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
174	14011600	7.00	Station	36944.91	258614.37	AT Par	258614.37
	Description:- Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of signals from nearest line on the signals base. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
175	14011900	80.00	Hour	1090.59	87247.20	AT Par	87247.20
	Description:- Hiring of JCB machine(in good condition) for levelling and dressing ground/ dismantling structures including disposal of debris through dumpers etc with contractors labour , JCB machine , machine operator, fuel etc. The contractor shall arrange for road permit for all the states for operation as per instructions of engineer incharge and vehicle shall not be more than 3 years old . Payment shall be made for actual working hrs at site. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
176	14012700	28.00	Numbers	1830.92	51265.76	AT Par	51265.76
	Description:- Supply & fixing of Crank Handle Box & SM's key box of size 450 mm x 250 mm x150 mm and made of 12 mm thick teakwood with a glass front, lock and sealing arrangement. All material like lock, teakwood, handles, hinges, glass sheet of 3 mm thick will be supplied by the contractor. Box will be polished and description will be written as per instructions of Engineer in charge. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution						
177	14012800	19.00	Numbers	1722.47	32726.93	AT Par	32726.93
	Description:- Supply & fixing of KLCR boxes & fixing of KLCR Relays in ASM office. It includes supply of any minor bracket, nuts, bolts, teakwood, sun mica, lock, drilling hole etc as directed by engineer at site. It also includes supply and wiring of push buttons along with LEDs for KLCR circuit. Rly will supply only KLCR relays and contractor has to wire KLCR relays. It includes supply of all the related wiring material. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution						
178	15010100	2440.00	Metre	18.74	45725.60	AT Par	45725.60
	Description:- Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/ Systemax / Panduit/ Tyco/ Krone/ AMP. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
179	15010200	5.00	Numbers	3316.73	16583.65	AT Par	16583.65

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Supply of 4/2 wire combined Portable Light Weight Emergency control telephones of metal body with 6-pin plug as per IRS-TC-75/99 (Amnd 4) or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
180	15010300	20.00	Numbers	1401.40	28028.00	AT Par	28028.00
	Description:- Supply of KRONE Punching tool, Krone or any reputed make only. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
181	15010400	1.00	Set	22029.82	22029.82	AT Par	22029.82
	Description:- Supply of Transmission Measuring Set/Kit along with all accessories as per RDSO Specn. No. IRS: TC- 43/87 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
182	15010600	55.00	Numbers	12752.20	701371.00	AT Par	701371.00
	Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
183	15010700	1.00	Numbers	193957.98	193957.98	AT Par	193957.98
	Description:- Supply of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will supply all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply.						
184	15010800	1.00	Numbers	48489.50	48489.50	AT Par	48489.50
	Description:- Installation, wiring, testing & commissioning of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will install all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
185	15010900	10.00	Numbers	253550.16	2535501.60	AT Par	2535501.60
	Description:- Supply of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
	15011000	10.00	Numbers	63387.54	633875.40	AT Par	633875.40

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

186	Description:- Installation, wiring, testing and commissioning of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
187	15011100	260.00	Kilometre	48313.26	12561447.60	AT Par	12561447.60
	Description:- Supply of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes supply of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
188	15011200	260.00	Kilometre	12078.31	3140360.60	AT Par	3140360.60
	Description:- Laying of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes installation of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
189	15011300	260.00	Kilometre	10804.77	2809240.20	AT Par	2809240.20
	Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per instructions of engineer incharge at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
190	15011400	110.00	Numbers	5263.87	579025.70	AT Par	579025.70
	Description:- Construction of brick chamber of optical fibre cable straight through joint as per Drg. No. CSTE/NWR/ SOR/23. It also includes supply and provision of all the material required for this item like bricks, sand, cement etc. The cement and sand should be in ratio 1:6. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
191	15011600	8.00	Numbers	4413.95	35311.60	AT Par	35311.60
	Description:- Supply & Installation of Professional 19" Equipment Racks 4U for housing of network equipments. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
192	15011700	7.00	Numbers	7358.68	51510.76	AT Par	51510.76
	Description:- Supply & Installation of Professional 19" Equipment Racks 12U for housing of network equipment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
193	15012100	7.00	Numbers	3666.60	25666.20	AT Par	25666.20
	Description:- Installation of Battery chargers, Power distribution Board along with MCBs of suitable ratings and wiring and commissioning of External alarm contacts through EMS. The work includes supply of battery rack, MCBs, battery cable and battery lugs and other accessories required for installation of power plant. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
194	15012700	8.00	Per Block Section	21320.84	170566.72	AT Par	170566.72
	Description:- End to end testing of all the fibers of the optical fiber cable & all the conductors of 6-Quad cable between stations/cable hut in presence of railway engineer. All equipment accessories required for the above job are to be arranged by the contractor's representative and railway's site Engineer in-charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
195	15013000	220.00	Kilometre	305.00	67100.00	AT Par	67100.00
	Description:- Video recording of trenching. It includes the man power and all required arrangement for video recording at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
196	15013100	200.00	Numbers	147.63	29526.00	AT Par	29526.00
	Description:- Supply of LC/PC -LC/PC patch cord (5 meter) (3M, TE connectivity, R&M make or superior) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
197	15013200	200.00	Numbers	146.69	29338.00	AT Par	29338.00

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Supply of SC/APC -LC/PC patch cord (5 meter) (3M, TE connectivity, R&M make or superior) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
198	15013700	20.00	Numbers	1232.67	24653.40	AT Par	24653.40
	Description:- Supply of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
199	15013800	20.00	Numbers	308.17	6163.40	AT Par	6163.40
	Description:- Fixing and wiring of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
200	15013900	20.00	Numbers	1963.08	39261.60	AT Par	39261.60
	Description:- Supply of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
201	15014000	20.00	Numbers	490.77	9815.40	AT Par	9815.40
	Description:- Fixing and wiring of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
202	15014500	150.00	Metre	654.77	98215.50	AT Par	98215.50
	Description:- Supply of DLP trunk 80X50mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
203	15014600	150.00	Metre	163.69	24553.50	AT Par	24553.50
	Description:- Fixing & wiring (Laying) of DLP trunk 80X50mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Cable will be supplied by Railway and all other fixing material will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
204	15014700	300.00	Metre	110.87	33261.00	AT Par	33261.00
	Description:- Supply of DLP trunk 32X20mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
205	15014800	300.00	Metre	27.72	8316.00	AT Par	8316.00
	Description:- Fixing & wiring (Laying) of DLP trunk 32X20mm with required all changeable internal/external angle, changeable flat angle, flat junction. Clips, joint for cover, end cap etc. make Legrand or superior. Cable will be supplied by Railway and all other fixing material will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
206	15014900	20.00	Numbers	571.96	11439.20	AT Par	11439.20
	Description:- Supply of frame, surface box and white cover plates for Two modules. This also includes supply of RJ-11 Telephone sockets with level holder Jack type, RJ-45 LAN sockets Jack Type (Tool less) and blanking plates for one modules. Make: Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
207	15015000	20.00	Numbers	142.99	2859.80	AT Par	2859.80
	Description:- Fixing of frame, surface box and white cover plates for Two modules. This also includes fixing of RJ-11 Telephone sockets with level holder Jack type, RJ-45 LAN sockets Jack Type (Tool less) and blanking plates for one modules. Make: Legrand or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
208	15015100	220.00	Kilometre	985.48	216805.60	AT Par	216805.60
	Description:- Final location joint survey of proposed cable route plan(Quad/OFC Cable) and submission for approval of Railway. The details instruction/guidelines regarding joint survey and preparation of cable route plan are enclosed in Tender document. Contractor will submit two copies of prints with soft copy for checking by Railways. If alterations are suggested by Railways, then again two copies of prints will be provided for advance approval after carrying out all the alterations as submission of final cable route plan on 75 micron standard polyester film which includes details of entire section in which Quad /OFC Cables are laid. Once Railway has approved/signed tracings for cable route plan then contractor will submit 6 (Six) sets of xerox copies for cable route plan in proper binding form. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
209	15015400	8.00	Numbers	29373.13	234985.04	AT Par	234985.04
	Description:- Supply of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
210	15015500	8.00	Numbers	7343.28	58746.24	AT Par	58746.24

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Installation and complete indoor wiring of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
211	15015700	18.00	Lumpsum	9048.21	162867.78	AT Par	162867.78
	Description:- Installation of integrated Access Multiplexer 4U height/19" Rack mountable with 4 DTE (1+1) protection E1 interfaces & V.21/V.23 Modules supporting 8 Interface of (2W/4W) in one module and one Telnet port balance 2 slots empty; unit to support both AC/DC power supply; Cable to be provided for one no for E&M interface; DC to AC adapter- 1 Nos; Make Fabio 4C/ 4E1/ DC Team Engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
212	15016300	9.00	Numbers	65503.57	589532.13	AT Par	589532.13
	Description:- Supply of Electronic LC gate telephone system in 1+6 configuration with inbuilt voice recorder . It includes supply of 'surge protection and line connection unit /circuit' and centralised power supply system with battery as per RDSO Spec no. RDSO/SPN/TC/51/2011Revision 3.0 amendment 1.0 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
213	15016400	9.00	Numbers	18329.15	164962.35	AT Par	164962.35
	Description:- Installation of Electronic LC gate telephone system in 1+6 configuration with inbuilt voice recorder . It includes installation of 'surge protection and line connection unit /circuit' and centralised power supply system with battery as per RDSO Spec no. RDSO/SPN/TC/51/2011Revision 3.0 amendment 1.0 or latest. All the material required for fixing and installation of station telephone unit and gate telephone(slave telephone) will be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
214	15016600	125.00	Numbers	4364.82	545602.50	AT Par	545602.50
	Description:- Supply of Emergency Socket Box made of FRP material as per RDSO Specification No. RDSO/SPN/TC/44/2002Version 2.0 Amendment No. 3 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
215	15016800	10.00	Numbers	1548.91	15489.10	AT Par	15489.10
	Description:- Supply and provision of thermo-shrink splice filling jelly jointing kit as per RDSO Specn.No.RDSO/SPN/TC/57 2015 (Rev.1) Amnd.1 or latest suitable for PIJF cable for straight through joints. It includes supply of all the accessories as recommended by RDSO. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
216	15016900	120.00	Numbers	248.70	29844.00	AT Par	29844.00
	Description:- Painting of emergency post and sockets in sections as per instructions of the site engineer in charge. This shall include all material, labour and transportation required for painting of emergency post and sockets in section. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
217	15017000	140.00	Numbers	923.13	129238.20	AT Par	129238.20
	Description:- Supply of VF Transformers (2T/3T), 1120/470 Ohms as per RDSO Spec. No. IRS: TC-76-2000 with Amnd. 1 or latest for emergency joints in 6-Quad Cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
218	15017300	58.00	Numbers	27241.60	1580012.80	AT Par	1580012.80
	Description:- Supply of 8 port Gigabit Lite Managed PoE Layer 2 Switch supports 8 nos 10/100/1000BASE-T ports, along with 2 Gigabit SFP ports, green-saving technologies, make model DG-GS1510HPL DIGISOL / CISCO/JUNIPER or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
219	15019100	24.00	Numbers	55627.03	1335048.72	AT Par	1335048.72
	Description:- Supply of Double side Digital Clock suitable for platform area with GPS Synchronization in standalone mode as per Clause 5 of RDSO SPN TC 62/2008, (Rev 3.0) Amnd. 2 or latest with all required accessories. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
220	15019200	24.00	Numbers	6183.47	148403.28	AT Par	148403.28
	Description:- Installation & commissioning of Double side Digital Clock suitable for platform area with GPS Synchronization in standalone mode as per instruction of site incharge with all required accessories and fixing arrangements to commissioning the item. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
	15019300	7.00	Numbers	13207.11	92449.77	AT Par	92449.77

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

221	Description:- Supply of Digital Clock suitable for Office Complex with GPS Synchronization in standalone mode as per Clause 6 of RDSO SPN TC 62/2008, (Rev 3.0) Amnd. 2 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
222	15019400	2500.00	Metre	33.02	82550.00	AT Par	82550.00
	Description:- Supply of power cable 3 core 2.5 sq mm multi strand (36/0.3 mm dia) cable as per IS 694:1990 reaffirmed 1995 or latest suitable for railway electrification area shall be of reputed make like Delton, LAPP, Finolex, or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
223	15019600	32.00	Numbers	1397.50	44720.00	AT Par	44720.00
	Description:- Supply installation and commissioning of versatile PA horn speaker 30W with 100V LMT Taps 15, 10 and 5W complete with fixture of make Philips/Ahuja/AKG. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
224	15019700	28.00	Numbers	1681.05	47069.40	AT Par	47069.40
	Description:- Supply and installation of column speaker 15W with LMT all metal weather resistant, including fixtures and other material required. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
225	15019900	4200.00	Metre	35.22	147924.00	AT Par	147924.00
	Description:- Supply of 2 core screened/shielded multistrand PVC insulated wire (24/0.2 mm dia) for speaker load line. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
226	15020100	7.00	Numbers	17807.06	124649.42	AT Par	124649.42
	Description:- Supply & installation of Amplifier AHUJA TZA-4000EM or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
227	15020200	7.00	Numbers	1644.19	11509.33	AT Par	11509.33
	Description:- Supply of Mike AHUJA ACM-66CH or superior make. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
228	15020300	7.00	Numbers	10799.39	75595.73	AT Par	75595.73
	Description:- Supply of good quality class-c surge protector device. The parameters of Class C protection device shall be as per clause no. 5.9 of specification no. RDSO/SPN/TC/98/2011, Rev.0 or latest of make phoenix contact, Wago or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
229	15020400	7.00	Numbers	31750.25	222251.75	AT Par	222251.75
	Description:- Supply of Sine Wave output Voltage inverter of 2.0KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640 with trolley stand. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
230	15020500	1.00	Lumpsum	5412.98	5412.98	AT Par	5412.98
	Description:- Complete wiring, testing, integration and commissioning of IPIS system as per scope of work. This shall includes all connecting cables, connectors etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
231	15020600	34.00	Numbers	28750.00	977500.00	AT Par	977500.00
	Description:- Supply of CWDM SFP + -10Gbps-1xx1nm(xx=47,49,.....61)-40Km-DDM-RoHs(suitable for the IP-MPLS network). Make: Cisco, Eoptical or similar suitable for Neon. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
232	15021400	10.00	Metre	49.21	492.10	AT Par	492.10
	Description:- Supply of 10 pair switchboard indoor copper cable 0.6 dia as per specification IRS:TC:24:91. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
233	15023400	80.00	Metre	42.32	3385.60	AT Par	3385.60
	Description:- Supply and installation of 2 core shielded Microphone Cable, make Finolex, Beldon, Sommer or similar Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution						
234	15025700	7.00	Numbers	6980.85	48865.95	AT Par	48865.95
	Description:- Supply, fixing and wiring of surge protection device in attachment plug module with replaceable surge protection for coaxial signal, interfaces N-connector plug/socket installed as surge protection between antenna and 25 W VHF sets, make- Phoenix Contact model CN-UB-280DC-SB-2818148 or similar as per specifications. this includes mounting plate and reserve gas filled surge arrestor (one no.) with all required connectors/clamp for commissioning of SPD at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
235	15025900	6.00	Numbers	3356.35	20138.10	AT Par	20138.10

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

	Description:- Supply of single mode single fibre optical media converter supports wavelength division multiplexing (WDM) upto 20 KM, wavelength supported 1310 & 1550 nm, 10/100/1000(Giga) RJ-45, model- DIGISOL DG-MC6123S or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.
236	15026300 18.00 Numbers 15494.56 278902.08 AT Par 278902.08
	Description:- Supply of wireless access point dual band indoor managed/standalone access, built in antenna, two ports(1GE + 1FE), POE support. This includes all accessories make DIGISOL model DG-WM5307IAC or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.
237	15026400 18.00 Numbers 968.41 17431.38 AT Par 17431.38
	Description:- Installation of wireless access point dual band indoor managed/standalone access, built in antenna, two ports(1GE + 1FE), POE support. This includes all accessories make DIGISOL model DG-WM5307IAC or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.
238	15026500 80.00 Numbers 4667.65 373412.00 AT Par 373412.00
	Description:- Supply of Small Form- Factor Pluggable(SFP) as per IEEE standard: IEEE 802.3z, Connector type: LC type, Wavelength(nm): 1310 nm, Fibre type: Single mode, Max cable distance: upto 20 km. Make & model DG-SA1133-20 DIGISOL/Netgear/Cisco or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.

3. ITEM BREAKUP

Schedule	Schedule NS-Items					
Item- 1	<p>Design, Manufacture & Supply of Electronic Interlocking (EI) System (Centralized architecture) for station as per Signal Interlocking Plan in 'Hot Standby architecture'. EI system shall be provided to operate with dual VDU Control Terminal as per RDSO Specification No.RDSO/SPN/ 192/2019 Ver. 2 or latest and from RDSO approved source only. It mainly consist of Microprocessor Equipments, Interface Equipments, EI vendor specific Interfacing Relays , In-built event Logger, In-built Power Supply Equipments, Racks (Only Relay Rack/EI Rack), Indoor cables, Wires, Fuses , Fixtures, Mounting arrangements along with all accessories required to make complete EI system functional. Design of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. This item also includes supply of following :- (a) Supply of documents/manuals for EI system as per RDSO Specn.No. RDSO/SPN/192/2019 Ver.2 or latest. (b) Supply & provision of protective devices like surge and lightning protection devices compatible to RE standards as recommended by OEM / RDSO. (c) The system at all stations is to be commissioned with inbuilt Block instrument in EI itself including Nathdwara-Knakroli, Nathdwara-Nathdwara Town sections(if technically feasible) Nathdwara station has K5BMC Kyosan make EI system. This includes all the material which is required to make complete EI system functional with inbuilt Block instruments. (d) EI design should adhere to RDSO letter No: RDSO-SIGOMISC(GEN)/ 1/2021Part(1) Date: 17.08.2024. & Railway Board Letter No. 2018/Sig/18/ EI/Gen. New Delhi. Note: It includes supply of all the material which is required to make complete EI system to be functional and as recommended by RDSO in Specn.No.RDSO/SPN/192/2019 Ver. 2 or latest. Design , manufacture & Supply of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time.The Technical Requirements are attached with the tender document. Railway will supply RDSO approved type of relays with approved contact configuration only. In case of requirement of vendor specific relays/relays with non-RDSO approved contact configuration being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI (Electronic Interlocking) system and number & type of such relays shall be indicated separately. Inspection: RDSO, Inspection charges: Borne by Railways Payment terms:100% after supply (payment of design after commissioning)</p>					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Kankroli	Station	1.00	13069367.96	13069367.96
2	2	Kuanriya	Station	1.00	12514751.89	12514751.89
3	3	Lava Sardargarh	Station	1.00	12407540.41	12407540.41
4	4	Charbhuj Road	Station	1.00	12107532.73	12107532.73
5	5	Kuwanthal	Station	1.00	12107532.73	12107532.73
6	6	Devgarh Madariya	Station	1.00	15679537.96	15679537.96
7	7	Nathdwara Town	Station	1.00	12265417.84	12265417.84
					Total	90151681.52

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

Item- 22		SITC of Remote Diagnostic and Predictive Maintenance system (RDPMs) for signalling gears comprising of IoT based data acquisition from field gears, data analysis, generation of reports and real time messaging of exception reports based on machine learning/artificial intelligence conforming to RDSO/RDPM/FRS/2021 dtd. 06.05.2021 or latest. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply, 10% after installation & 10% after commissioning.				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Field IoT device with basic function of capturing the parameters from the point machine circuit using the sensors along with communication hardware to transmit the data to the station gateway system as per RDSO Specification.	Numbers	78.00	68216.45	5320883.10
2	2	Field IoT device for sensing signal aspect current and transmit the data to the station gateway system as per RDSO Specification.	Numbers	138.00	69963.97	9655027.86
3	3	Field IoT device for sensing battery bank parameters and transmit the data to the station gateway system as per RDSO Specification.	Numbers	7.00	182806.49	1279645.43
4	4	Microprocessor based interface for SSDAC/HASSDAC/MSDAC to monitor upto 8 ports of DAC reset boxes in SM room.	Numbers	14.00	135587.01	1898218.14
5	5	Edge PC for data receiving & routing to the central processing and storage system to Zonal HQ and central cloud as per RDSO Specification.	Numbers	7.00	253998.45	1777989.15
6	6	Station gateway equipment system to receive the data from various IoT devices at field, relay room, equipment room as per RDSO Specification.	Numbers	7.00	194237.87	1359665.09
7	7	Dual serial to E1 converter card to connect station gateway to central system at Zonal HQ.	Numbers	7.00	36640.89	256486.23
8	8	Voice modem to connect IoT devices to station gateway.	Numbers	14.00	22116.88	309636.32
9	9	External voice modems in location box to connect field IoT device to the station gateway via copper cable.	Numbers	140.00	25644.87	3590281.80
10	10	Configuration and mapping of gear wise signalling information in remote diagnostic software, testing and commissioning (per IoT device).	Numbers	442.00	1049.25	463768.50
11	11	Installation, testing & commissioning of embedded based gateway system at station	Numbers	7.00	45803.08	320621.56
12	12	RDPM software and it includes configuration & mapping of gear wise signalling information in remote diagnostic software. (01 per unit = Per IoT device)	Each	442.00	9039.14	3995299.88
13	13	Supply & configuration of mobile application software (01 per unit upto 10 stations / users)	Each	1.00	218885.63	218885.63
					Total	30446408.69

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Mentioned in attached tender document.	No	No	Allowed (Mandatory)

**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Mentioned in attached tender document.	No	No	Allowed (Mandatory)

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certification)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

6. Documents attached with tender

S.No.	Document Name	Document Description
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**DY.CSTE-C-AII-S AND T/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-AII-24-02

Closing Date/Time: 04/11/2024 10:30

1	1.GeneralConditions.pdf	GeneralConditions
2	2.TechnicalSignalling.pdf	Technical Conditions Signaling
3	3.TechnicalTelecom.pdf	Technical Conditions Telecom
4	SIPCHARBHUJAROAD.pdf	SIP CHARBHUJA ROAD
5	SIPKANKROLI.pdf	SIP KANKROLI
6	SIPLAWASARDARGARH.pdf	SIP LAWA SARDARGARH
7	YardPlanNDTTown.pdf	Yard Plan Nathdwara Town
8	Kuwanthal.pdf	SIP Tentative Kuwanthal
9	DevgarhMadariya.pdf	SIP Tentative Devgarh Madariya
10	KUANRIYA.pdf	SIP Tentative Kuanriya

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: BALWAN SINGH

Designation : Dy.CSTE/C/AII

NORTH WESTERN RAILWAY

(SURVEY & CONSTRUCTION)

STANDARD TENDER DOCUMENT

(Version 11.3) For IREPS Circulated vide letter no.
NWR/S&C/HQ/444101878 Vol. I dtd. 01.03.2024.

[Tender No. **S&T/C/AII/24/02**]

(Two Packet tender System)

Name of work: "Design, manufacture, Supply, Installation, Testing & Commissioning of Microprocessor based Electronic Interlocking system (RDSO Spec No. RDSO/SPN/192/2019 Ver. 2 with latest amendment) at Kankroli, Kuanriya, Lava Sardargarh, Charbhujia Road, Kuwanthal, Devgarh Madariya & Nathdwara Town stations along with Supply, installation, testing & Commissioning of various indoor & outdoor Signalling & Telecom Systems & gears. The work also includes addition/alteration in the existing Electronic Interlocking (Kyosan make) in connection with Dismantling of MG facilities at Mavli Junction and provision of Inbuilt Block instrument in EI in Nathdwara-Mavli Jn section. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Electric Lifting Barrier along with Emergency slide boom, Track circuit equipment (DC Track Circuit & MSDAC), Earthing, Data loggers, ELD, FACS, AFDAS, IoT based RDPMS etc. The work includes Supply, Installation, Testing, and Commissioning of Telecom indoor and outdoor Equipments including Trenching, Laying, Jointing, and Termination of 24/48 fibre OFC cable and 6 Quad cable along with design, supply, installation, configuration, testing and commissioning of IP-MPLS system, provision of passenger amenities and other telecom works in c/w gauge conversion work of Devgarh Madariya – Nathdwara section of Ajmer division of North Western Railway".

OFFICE OF THE

Dy. Chief Signal & Telecommunication Engineer (Construction),
North Western Railway
Near DRM Office, Ajmer-305001

Signature Not
Verified

Digitally signed by
BALWAN SINGH
Date: 2024.10.07
17:19:06 +05'30'

Reason: IREPS-CRIS
Location: New Delhi

Signature of Tenderer

Dy. CSTE/C/AII

STANDARD TENDER DOCUMENT (Ver.11.3) FOR IREPS**GENERAL INSTRUCTIONS**

- 1.1 Indian Railways Standard General Conditions of Contract, Indian Railways Unified Standard Specifications (IRUSS Works and Materials) and CPWD Specifications 2021 Vol I & II of as amended/corrected up to latest correction slips, copies of which can be seen in the office of concerned Dy. Chief Engineer (Const.)/Chief Administrative Officer (Const.), North Western Railway or obtained from the office of the Principal Chief Engineer, North Western Railway on payment of prescribed charges.
- As per Clause No.1.01 vi, vii, viii, ix of 1st sheet & 1(d) of tender form 2nd sheet Annex.I Part-I of GCC-2022, with up-to-date correction slip.**
- 1.2 Standard Schedule of Rates (SSOR) CPWD Rates Vol I, II as amended / corrected up to latest correction slips, IR specifications/Guidelines updated with correction slips, relevant BIS codes updated with correction slips, copies of which can be seen in the office of concerned Dy. Chief Engineer (Const.)/Chief Administrative Officer (Const.), North Western Railway or obtained from the office of the Principal Chief Engineer, North Western Railway on payment of prescribed charges.
- As per Clause No. 1.01 vii, x, xi of 1st sheet & 1(e) of tender form 2nd sheet Annex.I Part-I of GCC-2022 , with up to date correction slip , with up to date correction slip**
- 1.3 All general and detailed drawings pertaining to this work which will be issued by the Engineer or his representatives (from time to time) with all changes and modifications.
- As per Clause No. 1(f) of tender form 2nd sheet Annex.I Part-I of GCC-2022, with up-to-date correction slip.**
- 1.4 i) CPWD Delhi Schedules of Rates (DSR) (DSR-Vol,-I,DSR-Vol,-II,DSR Horticulture & landscaping), analysis of Rates for DSR(AOR-Vol. I, AOR Vol. II) & CPWD specification (Vol I, Vol II) shall be used for execution of all civil Engineering works related to building work, Road works and Horticulture works etc.(except formation works, bridge works and P way works).
- ii) Indian Railway Unified Standard Schedule of Rates (IRUSSOR-shall be used) for execution of formation works, bridge works and P. way works.
- 2.0 **Drawings for the Work:** The Drawing for the work can be seen in the office of the concerned Dy. Chief Engineer (Const.) and / or Chief Administrative Officer (Const.) North Western and / or Principal Chief Engineer, North-Western Railway at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time.
- As per Clause No. 2 of tender form 2nd sheet Annex.I Part-I of GCC-2022,**
- 3.0 **Tender Form** embodies the contents of the contract documents either directly or by reference, e-Tender Forms shall be issued free of cost to all tenderers.
- As per Clause No.3 of Part-I of GCC-2022 , with up to date correction slip**
- 3.1 Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.
- As per Clause No. 1.2 (n) of Part-I of GCC-2022 , with up to date correction slip**
- 3.2 The Tenderer(s) shall quote his / their rates as a percentage above or below the Standard Schedule of Rates (SSOR) of North Western Railway except where he/they are required to quote item rates and must tender for all the items shown in the Bill(s) of Quantities attached. The quantities shown in the attached Bill(s) of Quantities are given as a guide and are approximate only and are subject to variation according to the needs of the Railway. The Railway does not guarantee work under each item of the Bill(s) of Quantities. The tenderer(s) shall quote rates / rebates only at specified place in Tender Form supplied by Railway. Any revision of rates / rebates submitted (quoted) through a separate letter whether enclosed with the bid (Tender Form) or submitted separately or mentioned elsewhere in the document other than specified place shall be summarily ignored and will not be considered.
- As per Clause No. 3 of tender form 2nd sheet Annex. I Part-I of GCC-2022, with up to date correction slip.**
- 4.0 Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tenderer(s) in his/their entries must be attested by him / them.

As per Clause No. 4 of tender form 2nd sheet Annex. I Part-I of GCC-2022, with up to date correction slip.

5.0 BID SECURITY :

5.1 For the subject tender, the Bid security deposit shall be Rs.*.....and shall be governed by Para 5.1.1/ 5.1.2 below.

(Note*:- The concerned field unit shall clearly specify the amount in the blank space.

5.1.1 (a) The tenderer shall be required to submit the Bid Security with the tender for the due performance with the stipulation to keep the offer open till such date as specified in the tender, under the conditions of tender. The Bid Security shall be as under :

Value of the work	Bid Security
For works estimated to cost up to Rs. 1.0 Crore	2% of the estimated cost of the work
For works estimated to cost more than Rs. 1.0 crore	Rs. 2 lakh plus ½% (half percent) of the excess of the estimated cost of work beyond Rs. 1 crore subject to a maximum of Rs. 1.0crore

Note :

- (i) The Bid Security shall be rounded off to the nearest Rs. 100. This Bid Security shall be applicable for all modes of tendering.
- (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security deposit detailed above.
- (iii) Labour Cooperative Societies shall submit to only 50% of above Bid Security detailed above.
- (b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway.
- (c) If his tender is accepted this Bid Security mentioned in sub clause (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.

As per Clause No. 5 – 1 (a) of Part-I of GCC-2022, with up to date correction slip

5.1.2 The Bid Security shall be deposited in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per **Annexure-XXXII** and shall be valid for a period of 90days beyond the bid validity period.

5.1.2.1 In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:

- i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.
- ii. The original Bank Guarantee should be delivered in person to the official nominated (**Name and address to be filled before floating the tender by concerned field unit**) as indicated in the tender document before closing date for submission of bids (i.e. excluding the last date of submission of bids), (as per ACS No.5).
- iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non-submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid.
- iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.
- v. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected.

Signature of Tenderer

Dy. CSTE/C/AII

- vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification “**Bid for the ***** Project**” and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right-hand top corner of the envelope.
- vii. The envelope shall be addressed to the officer and address..... *(Name and address to be filled before floating the tender by concerned field unit)* as mentioned in the tender document.
- viii. If the envelope is not sealed and marked as instructed above, the Authority assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

As per Clause No. 5 –3 of Part-I of GCC-2022, with up-to-date correction slip

5.1.3 Bid Security:

- (a) Subject to exemptions provided under para 5(1) (a) of Part-1 (ITT) of this document, the tender must be accompanied by a Bid Security sum of ₹ _____ as Bid Security deposited in cash through e-payment gateway or as mentioned in tender documents, failing which the tender shall be summarily rejected. Any firm recognized by Department of Industrial Policy and Promotion. (DIPP) as ‘Startups’ (on submission of Registration Certificate issued by appropriate authority) and Labour Cooperative Societies shall deposit only 50% of the Bid Security.
- (b) The Tenderer(s) shall keep the offer open for a minimum period of 60 days **(in case of two packet system of tendering 90 days)** from the date of closing of the Tender. It is understood that the tender documents have been issued to the Tenderer(s) and the Tenderer(s), is / are permitted to tender in consideration of the stipulation on his / their part that after submitting his / their tender subject to the period being extended further, if required by mutual agreement from time to time, he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to the Chief Engineer/Dy. Chief Engineer/Construction North Western Railway, Should the tenderer fail to observe or comply with the foregoing stipulation, the amount deposited or Bank guarantee bond submitted as Bid Security for the due performance of the above stipulation, shall be forfeited to the Railway.
- (c) If his tender is accepted,
 - (i) The Bid Security mentioned in sub para (a) above deposited in cash through e-payment gateway will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract.
 - (ii) The Bid Security mentioned in sub para(a) above submitted as Bank guarantee bond, will be encashed as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract.
 - (iii) The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation to the Bid Security that may happen thereto while in their possession, nor be liable to pay interest thereon.
- (d) In case Contractor submits the Term Deposit Receipt/Bank Guarantee Bond towards either the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, so retained as per sub Para(c) above, to the Contractor.

As per Clause No. 6 of Tender Form (second sheet) Annex.I of Part-I of GCC 2022, with up to date correction slip.

5.1.5 Care in submission of Tenders:- (a)(i) to (a)(iv) as per Part-I of GCC 2022

New Para 6(a) (v), Part I of GCC shall be read as under:

- 6(a)(v) Contractor shall be liable to pay/refund the amount collected as GST to the Indian Railways along with interest and penalties, if any imposed by the authorities, in case GST input tax credit of Indian Railways is denied/rejected by the tax authorities due to reasons mentioned below but not limited to:

Wrong/incorrect invoices issued by Contractor;

No-filing of GST returns;

Non-payment of GST collected from Indian Railways to the authorities;

Any other non-compliance done by Contractor;

General Indemnity: Contractor hereby agrees to indemnify and hold harmless the Indian Railways from and against any and all losses, including loss on account of Input Tax Credit and all losses incurred by the Indian Railways relating to or arising out of or in connection with any actual or threatened claim, legal action, proceedings, prosecution or inquiry by or against the Indian Railways arising out, directly or indirectly, of failure by the contractor to comply with the provisions of GST and related laws, or based upon or arising from any failure by the contractor.

Retention Money: Any payment liable to be paid by Indian Railways to contractor against the goods or services or both supplied by such contractor to Indian Railways shall be kept on hold in case supplier makes any non-compliance of any of the GST law provisions including non-reporting of invoices in GST returns. Such payment shall be released after proper verification of records and availability of ITC to Indian Railways as per provisions of GST Law.

As per advance correction slip No.6 of GCC 2022.

- 5.1.4 The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-II. In addition to **Annexure-II**, in case of other than Company/Proprietary firm, **Annexure-II (A)** shall also be submitted by the each member of a Partnership Firm / Joint Venture (JV) / Hindi Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested/ digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.

(As per Clause No. 6.1 Part-I of GCC 2022, as per correction slip No. 2).

- 6.0 **Rights of the Railway to deal with Tender:** The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders.

As per Clause No. 7 of Tender Form (second sheet) Annex.I of Part-I of GCC 2022,with up to date correction slip.

- 6.1 If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage.

As per Clause No. 8 of Tender Form (second sheet) Annex. I of Part-I of GCC2022, with up to date correction slip.

- 6.2 If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled/contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.

As per Clause No. 9 of Tender Form (second sheet) Annex. I of Part-I of GCC -2022, with up to date correction slip.

7.0 **SYSTEM OF TENDERING**

Right of Railway to Deal with Tenders: The Railway reserves the right of not to invite tenders for any of Railway work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action. In case if tender is accepted in part by Railway administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer.

- 7.1 **7A - Two Packets System of Tendering:** With a view to assess the tenders technically without being influenced by the financial bids, 'Two Packets System of tendering' shall be adopted for contract valuing more than **Rs. 10 crores** or as advised by Railway Board time to time by updated policy guide lines. For Works and Service tenders of value more than Rs. 50 Cr., the **Clause no. 26.0** of Electronic Reverse Auction will be applicable

- 7.1.1 **7B- Pre Bid Conference:** Intenders having advertised value more than Rs 50 Crores mentioned in the tender document, Railway shall conduct Pre Bid Conference(s) with the prospective bidders.

- 7.2 **Single Packet Tender-:** In case of tenders costing less than Rs. 10 Crore single packet tender system will be followed and technical & financial offer of the tenderer/s shall be opened and evaluated at the same time.
- 7.3 Tenderer should submit the offer with due diligence after going through the tender documents.
- 7.4 **7C-Make in India Policy:** Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders.
- 7.4.1 **7D-Permission to Bid for a bidder from a country which shares Land boundary with India:** Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this Para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.
- 7.4.2 **7E- Clarification of Bids:** To assist in the examination, evaluation & comparison and pre-qualification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing.

However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.

As per Clause No.7A,7B,7C,7D&7E of Part-I of GCC 2022 , with up to date correction slip.

- 8.0 **Execution of Contract Document:** The tenderer whose tender is accepted shall be required to appear in person at the office of General Manager/General Manager (Construction), Chief Administrative Officer (Construction), Divisional Railway Manager or concerned Engineer, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear (there would be no need for appear in person if agreement is signed digitally) and execute the contract agreement within seven days of notice from Railways that the Contract Agreement is ready. The Contract Agreement shall be entered into by Railway only after submission of valid Performance Guarantee by the Contractor. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. In such cases the Railway may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the Railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The failed Contractor shall be debarred from participating in the re-tender for that work. **As per clause No. 8 of Part-I of GCC-2022, with up to date correction slip.**
- 8.1 In case, the particular work is charged to EBR (IF), than the Indian Railways Finance Corporation (IRFC) shall also be the party in the contract agreement. After submission of valid performance guarantee, the contract agreement shall be entered into between Indian Railways (IR), Indian Railways Finance Corporation (IRFC) and the tenderer, whose tender is accepted. The Contract Agreement shall be signed as per Annexure-XXV of the STD. The format at Annexure IV of GCC2022 shall not be applicable for Contract Agreement of EBR (IF) funded contracts.

As per Railway Board's letters no 2018/AC-II/1/57(Pt.) dated 20.03.20 for EBR(IF) funded contracts.

9.0 Documents to be Submitted Along with Tender

- (i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / HUF/Company / Joint Venture (JV) / Registered Society / Registered Trust /Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, authorized signatory and copy of PAN Card along with their tender as per proforma given in Annexure - I (**Mandatory**). Tender shall be submitted and signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.
- (ii) The various documents to be submitted by the tenderer are as per clause 14 (ii) of the GCC 2022, the tenderer shall ensure submission of mandatory document as listed in para 16 below along with the offer.
- (iv) If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.

- (iv) After closing of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/LLP etc. shall be neither asked nor considered, if not submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.
- (v) A tender from JV / Partnership firm etc. shall be considered only where permissible as per the tender conditions.
- (vi) The Railway will not be bound by any change of Power of Attorney or in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

As per Clause No. 14 of Tender Form (second sheet) Annex. I of Part-I of GCC-2022 , with up to date correction slip.

- 10.0 The tenderer whether sole proprietor/ A Company or a partnership firm / joint venture (JV) / registered society / registered trust/HUF/LLP etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.

A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.

Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.

As per Clause No. 15 of Tender Form (second sheet) Annex. I of Part-I of GCC-2022 , with up to date correction slip

11.0 Employment/Partnership etc. of Retired Railway Employees:

- (a) Should a tenderer
 - (i) be a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, OR
 - (ii) being partnership firm / joint venture (JV) / registered society / registered trust etc. have as one of its partners/members a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, OR
 - (iii) being an incorporated company have any such retired Engineer of the gazetted rank or any other gazetted officer working before his retirement as one of its Directors

AND

in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender

THEN

the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any Officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender.

- (b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazette rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the railways owned and

administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.

- (c) Should a tenderer or Contractor being an individual on the list of approved Contractors, have a relative(s) or in the case of proprietorship firm/ partnership firm/ company / joint venture (JV) / registered society / registered trust/ LLP/ HUF etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1% in the tendering entity employed in gazetted capacity in one or more of his shareholder(s) or a relative(s) of the shareholder(s) employed in gazetted capacity in the Engineering or any other department of the Railway, the authority inviting tenders shall be informed of the fact at the time of submission of tender, failing which the tender may be disqualified/rejected or if such fact subsequently comes to light, the contract may be rescinded in accordance with provision in clause 62 of standard general conditions of contract.

Note :- If information as required as per 11 (a), (b), (c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of Standard General Condition of Contract. **As per Clause No. 16, of Tender Form (second sheet) Annex-'I' of GCC-2022 , with up to date correction slip.**

- 12.0 **Omissions & Discrepancies:** Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.

As per Clause No. 4 of Part-I of GCC-2022 , with up to date correction slip.

13.1(A) **Care in Submission of Tenders:**

- (a)(i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive in accordance with the provisions of Clause-37 of the General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (As per Clause No. 6 (a)(i) of G.C.C. **2022** , Part-I with up to date correction slip)
- (a)(ii) Tenderers will examine the various provisions of the Central Goods and Services Tax Act, 2017 (CGST)/Integrated Goods and Services Tax Act, 2017 (IGST)/ Union Territory Goods and Services Tax Act, 2017 (UTGST)/ respective State's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderer(s) will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (As per Clause No. 6 (a) (ii) of G.C.C.**2022** , Part-I with up to date correction slip)
- (a)(iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority. (As per Clause No. 6 (a) (iii) of G.C.C. **2022**, Part-I with up-to-date correction slip)
- (a)(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.

As per Clause No. 6(a)(iv) of Part-I of GCC-2022, with up-to-date correction slip.

- 13.1(B) When work is tendered for by a firm or company, the tender shall be digitally signed by the individual legally authorized to enter into commitments on their behalf.

As per Clause No. 6(b) of Part-I of GCC-2022, with up-to-date correction slip.

- 13.1(C) In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the Documents and payment of Bid security etc. Tenderers/Prospective bidders are advised to upload their offer well in time. Railway will not be responsible for any delay/non submission of offer due to any reason whatsoever.

- 13.1(D) The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such

power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

As per Clause No. 6 (c) of Part-I of GCC-2022, with up-to-date correction slip.

- 13.2 The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as **Annexure-II & Annexure IIA**. Non submission of the certificate by the bidder shall result in **summarily rejection** of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify state and submit the supporting documents duly self-attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document. (ACS No.2)

As per Clause No. 6.1 of Part-I of GCC-2022, with up-to-date correction slip.

14.0 **RIGHT OF RAILWAY TO DEAL WITH TENDERS**

- 14.1 The Railway reserves the right of not to invite tenders for any of Railway work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action.

In case if tender is accepted in part by Railway administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer.

As per Clause No. 7 of Part-I of GCC-2022, with up-to-date correction slip.

- 14.2 **The tenderer/s are required to quote his/their rates as % (percentage) Above/Below /At Par in figures on IREPS while submitting his/their offer.**

15.0 **ELIGIBILITY CRITERIA**

15.1 **Technical Eligibility Criteria: -**

- (a) The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:
 - (i) Three similar works, each costing not less than the amount equal to 30% of advertised value of the tender, OR
 - (ii) Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender, OR
 - (iv) One similar work, each costing not less than the amount equal to 60% of advertised value of the tender.
- (b) (1) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges – substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any of the following Categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:
 - (i) Three similar works, each costing not less than the amount equal to 30% of advertised value of each component of tender, OR
 - (ii) Two similar works, each costing not less than the amount equal to 40 % of advertised value of each component of tender, OR
 - (iii) One similar work, each costing not less than the amount equal to 60% of advertised value of each component of tender.

Note for (b) (1): Separate completed works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components.

- (b) (2) **In such cases, what constitutes a component in a composite work shall be clearly predefined with estimated tender cost of it, as part of the tender documents without any ambiguity.**
- (b) (3) To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of Contract or through subcontractor fulfilling the requirements as per clause 7 of the Standard General Conditions of Contractor jointly i.e., partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing.

However, if required in tender documents by way of Special Conditions, a formal Agreement duly notarized, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer for considering subletting of that scope of work towards fulfillment of technical eligibility. Such subcontractor must fulfill technical eligibility criteria as follows:

The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract.

Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway.

In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract with prior approval of Chief Engineer in writing.

Note for item 15.1:-Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.

In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.

As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

Work of similar nature means:

Any RRI/PI/EI/MACLS Supply, Installation, Testing, Commissioning Signalling work

OR

Any RRI/PI/EI/MACLS Alterations Signalling work

OR

Any CTC/TMS Work

Special Technical Compliance:

(i) While bidding, bidder should submit the authorization of RDSO approved source (OEM or it's RDSO approved source) from which the EI is being taken. (Optional)

(ii) While bidding in the tender for EI works, the tenderer must take OEM/its RDSO approved Indian partner's authorized breakup of numbers of each cards/modules & accessories (Annexure: TS-11 & TS-10). (Optional)

(iii) After award of the contract, MOU with the RDSO approved source covering supply of the equipment of EI, installation, testing and commissioning of EI by the same RDSO approved source including after sale support required during the warranty period and beyond warranty period, before supply of equipment is undertaken. (Undertaking)

(RB's letter no. 2013/Sig./01/(pt.) Dup dtd. 19.11.2020 & 17.02.2022)

15.1.1 Technical Eligibility Criteria for JV ('a' or 'b' mentioned hereunder):**(a) For Works without composite components.**

The technical eligibility for the work as per para 15.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV'.

Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 15.1 above, shall have technical capacity of minimum 10 % of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of advertised value of the tender.

(b) For works with composite components

The technical eligibility for major component of work as per para 15.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV' and technical eligibility for other component(s) of work as per para 15.1 above, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'.

Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for any component of the work as per para 15.1 above, shall have technical capacity of minimum 10% of the cost of any component of work mentioned in technical eligibility criteria. i.e., each other (non-lead) member of must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 10% of cost of any component of work mentioned in technical eligibility criteria.

Note for Clause 15.1.1:

(a) The Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work.

(b) Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration.

As per Clause No. 17.15.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

15.2 Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where

V= Advertised value of the tender in crores of Rupees

N= Number of years prescribed for completion of work for which bids have been invited.

The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.

The tenderers shall submit requisite information as per Annexure-VIII, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.

As per Clause No. 10.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

15.2.1 Financial Eligibility for JV- Criteria The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 15. 2 above.

The "financial capacity" of the lead partner of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 15.2 above. The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "Financial capacity" to satisfy this requirement.

Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in the tender under consideration

As per Clause No. 17.15.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with upto date correction slip.

- 15.3 **Bid Capacity:** The tender/technical bid will be evaluated based on bid capacity formulated as **Annexure-D**.
Tenderer shall furnish bid capacity as per Annexure-D along with Annexure-V and annexure-XIX both duly certified by Chartered Accountant.

As per Clause No. 10.3 of Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- 15.3.1 **Bid Capacity for JV-**The JV shall satisfy the requirement of “Bid Capacity” mentioned at Para 15.3 above. The arithmetic sum of individual “Bid capacity” of all the members shall be taken as JV’s “Bid capacity” to satisfy this requirement.

As per Clause No. 17.15.3 of Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- 15.4 No technical and Financial credentials are required for tenders having advertised value upto Rs. 50 Lakhs.

As per Clause No. 10.4 of Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- 15.5 **1.The NIT cost of the tender is Rs. _____ for the Technical**

Eligibility Criteria.

The similar nature of work defined is OR Components and the similar nature of work defined as below

1.for Cost/schedule
2.for Cost/schedule
3.forCost/schedule

Note- To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility as laid down in clause 15.1.1 above, shall be considered.

2. Secondary Components-

- (i) **‘To be submitted along with the offer’-** Following Secondary Components are being defined as special condition/ requirement to this tender with respective similar nature of work as below, for which the tenderer shall submit a formal agreement duly notarized, legally enforceable in the court of law, executed by tenderer with the subcontractor for the laid down secondary component(s) of work proposed to be executed by the subcontractor(s), for considering subletting of that scope of work of the Secondary Components along with the offer, failing which offer shall be summarily rejected.

The tenderer shall also submit the documents in favour of the financial condition as laid down in clause 7 part II of GCC for the **Secondary Components** along with the offer, failing which offer shall be summarily rejected.

1.for.....Cost/schedule
2.forCost/schedule
3.for.....Cost/schedule

- (ii) **‘To be ensured before execution’-** The scope of work covered in the below defined **Secondary Components** shall be either executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor), provided the tenderer himself/ the subcontractor fulfills the laid down eligibility Criteria for the secondary components (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor), with prior approval of Chief Engineer in writing.

1.forCost/schedule
2.forCost/schedule
3. for.....Cost/schedule

- (iii) **Eligibility Criteria for the Secondary Components** - At least one successfully completed similar nature work (as defined above), costing not less than 35% value of work of the **Secondary Components**, in last 5 years ending last day of month previous to the one in which tender is invited through a works contract directly given to him by a Govt. Department; or by a Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, registered at least 5 years back from the date of submission of proposal by contractor to Railway and work experience certificate issued by a person authorized by the Public Listed Company to issue such certificates.

In case, work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate. The details shall be furnished as per Performa in the annexure III, IIIA, IV A, IV-B, IV-C for five years (as applicable) along with the tender.

***Note for clause 15.5 above** *- The concerned field unit shall clearly specify the similar nature of work for the NIT and the secondary components in the blank space (if applicable) (clearly write Not Applicable if not applicable) for the particular tender, at the time of processing the NIT.*

As per Clause No. 10.1(b) (iii) of Tender Form (second Sheet) of Annex.I of Part-I and clause 7 of part II of GCC-2022, with up to date correction slip.

15.6 A - The criteria for completed works shall be as under :-

- (i) Entire work has to be completed in all respects as per contract agreement. Part completed work shall not be considered.(Except substantially completed works)
- (ii) Completion certificate from following organizations shall only be considered:-
- (a) The work(s) should have been directly awarded to the tenderer by Govt.

Organization/ Semi Govt. Organization/ Public Sector Undertaking / Autonomous bodies/ Municipal Bodies/Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender.

The credentials of a wholly owned subsidiary of a parent company will also be considered in respect of works mentioned above if tender is submitted by the parent company.

- (b) Completion certificate should be as per proforma given in Annexure- IV-A or IV-B or IVC, as applicable or in the format containing all information required as per the Annexure- IV-A or IV-B or IV-C.
- (c) Work experience certificate issued by Public listed company shall be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate the relevant copy of work order, bill of quantities bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received an copy of final/last bill paid by company in support of above work experience certificate.
- (iii) Details of works physically completed should be submitted in the proforma as per 'Annexure-III'.
- (iv) The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, should be considered.

In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered.

However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower should be considered for judging eligibility.

- (v) The amount given at Sr. No. 11 in proforma vide Annexure-IV-A, IV-C for the completion certificate will be the value of completed work, if nomenclature of work as given in completion certificate matches with similar nature work.

- (vi) The amount mentioned at Sr. No. 12 in 'Annexure-IV-A, IV-C' for the completion certificate shall be the value of completed work if the nomenclature of completed work includes additional components of work which are not matching with similar nature of works.
- (vii) Certificate from private individuals for whom such works are executed shall not be considered for eligibility.
- (viii) Conditional tenders are liable to be rejected straight away. Railway reserves the right to reject such tenders summarily without assigning any reasons whatsoever.

As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

- 15.7 **Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under:**

The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India or entity authorized by RBI to do so for the relevant date or immediately previous date for which rates have been published. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.

As per Clause No. 10.5 of Tender Form (second Sheet) of Annex. I of Part-I of GCC2022, with up to date correction slip.

- 15.8 **Explanation for clause 15(clause 15.1 to 15.6) - Eligibility Criteria:**

1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. **The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender As per Annexure IV- B.**
2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
4. In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work.
In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work.
5. If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet), the same shall be considered for the purpose of fulfillment of credentials.
6. **In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.**
7. In case of newly formed partnership firm, the credentials of individual partners from previous proprietary firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3×0.2 * value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No. (s) in case of dissolution of partnership firm(s) etc.

8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
9. In case of existing partnership firm, if any new partner(s) joins the firm, without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A & B partners in any other partnership firm or propriety firm without leaving partnership firm of A & B partners.
11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.
13. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.
15. In case company A is merged with company B, then company B would get the credentials of company also.
As per Clause as explanation to clause 10 of Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up-to-date correction slip.
- 16.0 **The list of documents to be uploaded by the tenderer(s) for this tender.**
- 16.1 Following documents are common for all types of firm i.e. Sole proprietorship, Partnership, Limited Liability Partnership Firm, Registered Society/ Trust, Limited Company or JV, HUF.
 - (a) Firm details as per proforma & Notes given in **Annexure-I (Mandatory).**
As per Clause No. 14 (i) of Tender Form of Part-I of GCC-2022, with up to date correction slip
 - (b) Certificate as per proforma given in **Annexure-II & Annexure II-A (Mandatory).**
As per Clause No. 6.1 & Para-11(iv) of Tender Form of Part-I of GCC-2022, with up to date correction slip. "In addition to Annexure-II, in case of other than company/proprietary firm. Annexure-II(A) shall also be submitted by the each member of a partnership firm/Joint venture (JV)/Hindu undivided family(HUF)/Limited liability partnership(LLP) etc, as the case may be."
 - (c)(i) List of similar nature of works physically completed in all respects during last 7 years, ending last day of month before one in which tender is invited, shall be submitted as per Proforma given in **Annexure-III / Annexure IIIA (in case of composite works).**
For works (i) directly awarded by Govt./Semi Govt./Public sector undertaking / Autonomous bodies /Municipal bodies/ Railways Siding owners (ii) Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the Closing of tender.

(ii) Details of work of similar nature successfully completed during last seven years, ending last day of month previous to the one in which tender is invited as per Performa given in **Annexure III**.

In case the completed or substantially completed work is having composite nature of work having distinct components (bifurcated with defined Components in the tender schedule) and having separate schedule for each component, as per Performa given in **Annexure-III-A, (Mandatory in case of tender for composite nature of work)**.

As per Clause No. 10.1(b) 1 and 2 Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- (d) Attested copy of Completion Certificate of works mentioned in Para (c) above from the Organizations with whom they worked as per proforma given in **Annexure-IV-A or IV-B or IV-C** as applicable **(Mandatory)**.

As per Clause No. 11(i) Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- (e) In case, the **Secondary Component(s)** has/have been defined as special condition/ requirement to this tender in 2 (i) of clause 15.5 above, with special condition (i) ***'to be submitted along with the Offer'*** tenderer shall submit -

- (i) Details of works of similar nature (defined for the Secondary Component), successfully completed executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, ending last day of month previous to the one in which tender invited as per Performa in Annexure III, IIIA (for five years) (bifurcated as per components of tender schedule).
- (ii) Attested copy of Completion Certificate of works mentioned in Para (c) above from the Organizations with whom they worked as per performa given in **Annexure-IV-A or IV-B or IV-C** as applicable.
- (iii) Tenderer shall submit a formal agreement duly notarized, legally enforceable in the court of law, executed by tenderer with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer as per performa given in Annexure-XXXI.

Mandatory in case of secondary components are defined in the tender with special condition 'for submission along with the Offer'.

As per Clause No. 10.1(b)(iii) Tender Form (second Sheet) of Annex. I of Part-I and clause 7 (a) (ii) of part B of GCC-2022, with up to date correction slip.

Note - In case, completion certificate is issued by public listed company (Annex.IV-C). Following documents regarding the **Public listed company** are required to be submitted along with the certificate **(Mandatory)**

- (i) Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure-VIII.
- (ii) The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on closing of tender, duly self-attested.
- (iii) The copy of document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of Closing), duly self-attested.
- (iv) The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested.
- (v) Tenderer shall also submit the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received and copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.
- (f) List of works on hand, existing commitments and balance amount of ongoing works as per format given in **'Annexure-V duly verified by Chartered Accountant to evaluate bid capacity of the tenderer.(Mandatory for tender value more than Rs. 20 crores)**

As per Clause No.10.3 Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- (g) A statement showing construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as work in progress as per **Annexure-XIX** duly verified by Chartered Accountant to evaluate bid capacity of the tenderer (**Mandatory for tender value more than Rs. 20 Crores**)

As per Clause No.10.3 Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

- (h) List of plants & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work in **Annexure-VI**.

As per Clause No.11(iii) Tender Form (Second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

- (i) List of Personnel, Organization available on hand and proposed to be engaged for the subject work in **Annexure-VII**.

As per Clause No.11(iii) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.

- (j) Bid security should be in proper form. Bid security should be submitted by the tenderer only through net banking or payment GATEWAY/ or in form of BG as per Annexure -XXXII in favour of **FA&CAO/Construction, North Western Railway, Jaipur** (**Mandatory**)

As per Clause No. 5 (1) (a) and 5 (2) of Part-I of GCC-2022, with up to date correction slip.

- (k) Contractual turnover as per **Annexure.VIII (Mandatory)** duly certified by Chartered Accountant.

The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.

As per Clause No.10.2 and 11(ii) Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.

- (l) Self-attested copy of Permanent Account Number (PAN) issued by Income Tax Department. **As per Clause No.14(i) Tender Form (second Sheet) of Annex.I of Part-I of GCC-2022, with up to date correction slip.**

- (m) The tenderers are required to submit the test report of the stone ballast conforming to railways specifications as given in the Para 7.0 of Important Codal Provision of Tender Document. (Applicable only for the tenders of supply of ballast). The test report is required/ not required for this tender. (**Mandatory if marked as required**)*.

Note*- the concerned field unit shall clearly specify whether the ballast test report is required or not for the particular tender, at the time of processing the NIT.

- (n) The tenderers are required to submit the information and particulars regarding retired Railway Engineer(s)/Officer(s) of the Gazetted rank and regarding Relative(s) employed in Gazetted capacity on North Western Railway as per proforma given in Annexure XXII (**Mandatory**).

As per Clause No. 16, Tender Form (second Sheet) of Annex-I of Part-I of GCC-2022, with up to date correction slip).

- 16.2 In addition to Para 16.1 above certain more documents are to be submitted by tenderers as per status of their firms and are **mandatory**. These documents are listed below

- (i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, JV as the case may be.

- (ii) Following documents shall be submitted by the tenderer :

- (a) **For Sole Proprietorship firm**

- a)** Affidavit as per Proforma given of **Annexure-IX** (duly executed on stamp paper and notarized).

- b) Power of Attorney to be submitted by sole proprietor firm as per proforma given in **Annexure-XIV**(duly registered with the Registrar or notarized). (Not required if tender documents are submitted by proprietor himself as per (a) above).

As per Clause No. 14 (ii) (a), 15 Annex. I of Part-I of GCC-2022, with upto date correction slip.

- (b) **For HUF (Hindu Undivided Family)**

- (a) Affidavit as per proforma given of **Annexure –XXVI** (duly executed on stamp paper and notarized).

- (b) Power of Attorney to be submitted by the HUF as per proforma given in **Annexure-XXVII**(duly registered with the Registrar or notarized). (Not required if tender documents are submitted by Karta of the HUF, himself as per (a) above).

As per Clause No. 14 (ii) (b) & 15 Annex. I Part-I of GCC-2022, with upto date correction slip.

- (c) **Certificate as per proforma of Annexure-IIA by each member of HUF.**

- (d) **Certificate by HUF as per proforma given in Annexure-XXVI.**

- (c) **For Partnership firm**

- (a) A copy of Partnership Deed (Notarized or duly registered with the Registrar prior to submission of tender as per the Indian Partnership Act).

- (b) Special/General Power of attorney to be submitted by Partnership firm in favour of the individual to sign the tender on behalf of the firm and create liability against the firm as per proforma given in **Annexure-XIII/ General Power of Attorney**(duly registered with the Registrar or notarized).

- (c) **Certificate by each partner of the partnership firm as per proforma given in Annexure-IIA.**

- (d) Declaration by the newly formed partnership firm as per proforma given in **Annexure-XXVIII**.(mandatory if tenderer is newly formed partnership firm)

- (e) Declaration by the existing partnership firm as per proforma given in **Annexure-XXIX**. (mandatory if tenderer is an existing partnership firm)

- (f) With respect to the declaration above, in case of Newly formed partnership firm has/ have as one or more partner(s) from previous propriety firm(s) or dissolved previous partnership firm(s) or LLP firm or split previous partnership firm(s) or LLP firm, Existing partnership firm (a) joining of new one or more partner(s) in the existing partnership firm, (b) quitting of new one or more partner(s) from the existing partnership firm.

As per Clause No. 14(ii)(c), 15, 18 & explanation to Clause 10.1 to 10.5 of Annex. I Part- I of GCC-2022, with up to date correction slip).

- (d) **For Company registered under Companies Act 2013**

- (a) Copy of Memorandum of association/ Articles of Association of Company.

- (b) Copy of Certificate of Incorporation

- (c) Copy of resolution passed by Board of Directors authorizing its Director/Employee to deal with tender on behalf of company.

- (d) Power of Attorney/ Authorization issued by the Company (**backed by the resolution of Board of Directors**) in favour of the individual to sign the tender on behalf of the company and create liability against the Company, as per proforma given in **Annexure-XV** (duly registered with the Registrar or notarized).

- (e) Declaration regarding constitution of the Company, for merging of another company, details required for the entire period for last seven years as per proforma given in **Annexure-XXX**. (Mandatory if company is merged).

As per Clause No. 14 (ii)(e), 15 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC-2022, with up to date correction slip.

- (e) **For LLP Firm Registered under LLP Act 2008**

- (i) A copy of LLP Agreement.

- (ii) A copy of certificate of Incorporation and
 - (iii) A copy of Power of Attorney/ Authorization issued by LLP firm in favour of the individual to sign the tender on behalf of the LLP firm and create liabilities against the LLP as per proforma given in **Annexure-XX** (duly registered with the Registrar or notarized). {
 - (iv) Declaration by the newly formed LLP firm as per proforma given in **Annexure-XXVIII**. (mandatory if tenderer is newly formed partnership firm).
 - (v) Declaration by the existing formed LLP firm as per proforma given in **Annexure XXIX**. (mandatory if tenderer is existing formed partnership firm).
 - (vi) **Certificate by each partner of the LLP as per proforma given in Annexure-IIA.**
 - (vii) All other documents in terms of **Clause No. 14(f), 15 & explanation to Clause 10.1 to 10.5 of Annex. I Part-I of GCC-2022, with up to date correction slip.**
 - (f) **For Registered Society & Registered Trust**
 - (a) A copy of the certificate of registration.
 - (b) A copy of Memorandum of Association of Society/Trust Deed.
 - (c) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liabilities against the Society/ Trust as per proforma given in **Annexure-XXI** (duly registered with the Registrar or notarized).
 - (d) A copy of Rules & Regulations of the Society.
As per Clause No. 14(g), 15 **Annex. I** Part-I of GCC-2022, with up to date correction slip.
 - (iii) If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.
As per Clause No. 14(iii), Part-I of GCC-2022, with up to date correction slip.
 - (iv) After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/LLP etc. shall be neither asked nor considered, if submitted. Further, no suomoto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.
As per Clause No. 14(iv), Part-I of GCC-2022, with up to date correction slip.
 - (v) A tender from JV shall be considered only where permissible as per the tender conditions.
As per Clause No. 14(v), Part-I of GCC-2022, with up to date correction slip.
 - (vi) The Railway will not be bound by any change of power of attorney or in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.
As per Clause No. 14(vi), Part-I of GCC-2022, with up to date correction slip.
- 16.2.1 The tenderer whether sole proprietor / a company or a partnership firm / registered society / registered trust / HUF / LLP etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.
- A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.

Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.

16.2.1(a) For JV firm

Following documents are mandatorily to be submitted by constituents of the JV firm depending upon their status **As per clause no. 14(d), 17.0 Annex.I Part-I, GCC-2022, with up to date correction slip.**

- a) Memorandum of Understanding of JV as per pro forma given in **Annex. X**(duly executed on stamp paper and notarized).
- b) **Special Power of attorney to be submitted by Joint Venture in favour of the individual to sign the tender on behalf of the JV and create liability against the JV (duly registered with the Registrar or notarized).**
- c) Certificate by the each member of JV as per proforma given in Annexure-IIA.

As per clause No. 17.6, 17.12 of Annex.I Part-I of GCC-2022, with up to date correction slip. As per Annexure-II A,

16.2.2 Documents mandatory for Sole Proprietorship firm participating as member of JV

- (a) Notarized Affidavit as per proforma given of **Annexure –IX** (duly executed on stamp paper and notarized).
- (b) Power of Attorney to be submitted by Sole Proprietor participating as member of JV firm as per proforma given in Annexure-XII(duly registered with the Registrar or notarized) (Not Required if MOU/JV agreement is signed by the sole Proprietor himself as per (a) above).
- (c) **Certificate by Sole Proprietorship firm participating as member of JV as per proforma given in Annexure-IIA.**

As per Clause No.15 Annex.I of Part-I GCC-2022, with up to date correction slip.

16.2.3 Documents mandatory for HUF (Hindu Undivided Family) participating as member of JV

- (a) Notarized Affidavit as per proforma of **Annexure-XXVI** (duly executed on stamp paper and notarized).
- (b) Power of Attorney to be submitted by HUF participating as member of JV firm as per proforma given in **Annexure-XII** (duly registered with the Registrar or notarized) (Not required if MOU/JV agreement is signed by the Karta of HUF himself as per (a) above).
- (c) **Certificate as per proforma of Annexure-IIA by each member of HUF.**

As per Clause No. 17.14.2, 15 Annex. I of Part-I GCC-2022, with up to date correction slip.

16.2.4 Documents mandatory for partnership firm participating as member of JV

In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted:

- (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
- (ii) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper(**Annexure-XI**),
- (iii) A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm.(**Annexure -XVIII**)
- (iv) **Certificate by each partner of the partnership firm as per proforma given in Annexure-IIA.**
- (v) Declaration by the newly formed partnership firm as per proforma given in **Annexure-XXVIII**.(mandatory if member of JV is newly formed partnership firm)
- (vi) Declaration by the existing partnership firm as per proforma given in **Annexure-XXIX**. (mandatory if member of JV is an existing partnership firm)

As per Clause 17.14.1, 15 & 18.2 of Annex.I Part-I GCC-2022, with up to date correction slip.

16.2.5 Documents mandatory for Company participating as member of JV

- (a) A Copy of Memorandum of Association/ Articles of Association of Company.
- (b) A Copy of certificate of Incorporation.

- (c) A Copy of resolutions passed by Board of Directors of the Company permitting the Company to enter into a JV agreement, to be submitted as per **Annexure-XVII**. (d) Special Power of Attorney/ Authorization issued by the Company (backed by the Resolution of Board of Directors) in favour of the individual to sign the tender, to sign the MOU/JV agreement on behalf of the company and create liability against the Company, as per proforma given in **Annexure-XII** (duly registered with the Registrar or notarized).
- (e) Declaration regarding constitution of the Company (participating in the tender as member of JV), for merging of another company, details required for the entire period for last seven years as per proforma given in **Annexure-XXX**. (Mandatory if the company is merged).
- (f) Certificate by the company participating as member of JV as per proforma given in Annexure-IIA.

As per Clause No. 17.14.3, 15 of Annex.I Part-I GCC-2022, with up to date correction slip.

- 16.2.5.1 A power of attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the power of attorney is being issued. However, the power of attorney provided by bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a confirming Apostille certificate.(As per correction slip No.3 of GCC).

16.2.6 Documents mandatory for LLP Firm participating as member of JV

- (a) A copy of LLP agreement.
- (b) A copy of Certificate of incorporation
- (c) A copy of Resolution passed by the partners of LLP firm permitting the firm to enter into a JV agreement to be submitted as per proforma given in **Annexure-XXIII**.
- (d) Special Power of Attorney/ Authorization issued by LLP firm (backed by resolution of partners) in favour of the individual to sign the tender, sign the MOU/ JV agreement on behalf of the LLP firm and create liabilities against the LLP firm as per proforma given in **Annexure-XXIV** (duly registered with the Registrar or notarized).
- (e) Certificate by **each partner of the LLP** as per proforma given in Annexure-IIA.
- (f) Declaration by the newly formed LLP firm as per proforma given in **Annexure-XXVIII**. (Mandatory if tenderer is newly formed partnership firm).
- (g) Declaration by the existing formed LLP firm as per proforma given in **Annexure XXIX**. (Mandatory if tenderer is existing formed partnership firm).

16.2.7 Documents mandatory for Society/ trust participating as member of JV

In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted:

- (i) A copy of Certificate of Registration
- (ii) A copy of Memorandum of Association of Society/Trust Deed (GCC April 2022)
- (iii) A copy of Rules & Regulations of the Society
- (iv) A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust.-(Annexure –XII)
- (v) Certificate by the Society / trust participating as member of JV as per proforma given in Annexure-IIA.

16.2.8 Note to Para 16

The tenderers shall submit a certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-II as mentioned in clause No. 16.1(b). Non submission of a certificate by the bidder shall result in summarily rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify state and submit the supporting documents duly self-attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document. **As per Clause No. 11(iv) Annex-I part I of GCC-2022, with up to date correction slip.**

1. It will not be obligatory on the part of Tender Committee to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender is concerned.

2. The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification.
3. Any such verification or lack of such verification by the railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the railway there under.
- 3.1 In case of any information submitted by tenderer is found to be false, forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid security besides banning of business for a period of upto **two years**. (as per correction slip no.3 of GCC)
- 3.2 In case of any information submitted by tenderer is found to be false forged or incorrect after the award of contract, the contract shall be terminated. Bid Security (if applicable as per para 5.1.2 above), Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of upto **two years**.

As per Clause No. 11(v),11(vi) (a)(b) Annexure 1 part I of GCC-2022, with up to date correction slip .

- 4.0 No post tender submission of documents shall be permitted in respect of tender. However, only clarification can be called for by Railway in respect of any part / document submitted by the tenderer which shall be responded to by the tenderer within 10 working days of the date of issue of such letter for clarifications, failing which the offer shall be dealt with as per available documents.
- 5.0 The documents mentioned 'mandatory' in clause No. 16 above are required to be uploaded by the contractor with tender document. If any of these documents is not uploaded along with the tender, the offer shall be summarily rejected.
- 6.0 Wherever the special power of attorney/ General power of attorney /MOU/deed /affidavit/letter of consent etc is mentioned, the following text may be added **"executed on the non judicial stamp paper of appropriate value"**

17.0 Participation of Partnership Firms in works tenders.

The partnership firm shall be governed as per Clause No. 18.1 to 18.12 of Tender Form (second Sheet) Annex. I Part-I of GCC-2022, with up to date correction slip.

18.1 Participation of Joint Venture (JV) in Works Tender:

This Clause shall be applicable for works tenders wherein tender documents provide for the same. **As per Clause No. 17 of Tender form second sheet Annex. I of Part-I of GCC-2022, with up to date correction slip.**

- 18.2 JV firms will be permitted participation in tender costing rupees more than Rs. 10 crores.

- 18.3 Separate identity/name shall be given to the Joint Venture Firm :

As per Clause No. 17.1 of Tender form second sheet Annex.I of Part-I of GCC-2022, with up to date correction slip.

- 18.4 Number of members in a JV shall not be more than three, if the work involves only one department (say Civil or S&T or Electrical or Mechanical) and shall not be more than five, if the work involves more than one Department. One of the members of the JV shall be its Lead Member who shall have a majority (at least 51%) share of interest in the JV. The other members shall have a share of not less than 20% each in case of JV with up to three members and not less than 10% each in case of JV with more than three members. In case of JV with foreign member(s), the Lead Member has to be an Indian firm/company with a minimum share of 51%. **As per Clause No. 17.2 of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip**

- 18.5 A member of JV firm shall not be permitted to participate either in individual capacity or as a member of another JV Firm in the same tender.

As per Clause No. 17.3 of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip.

- 18.6 Bid Security shall be submitted by JV or authorized person of JV either as :

- (i) Cash through e-payment gateway or as mentioned in tender document, or

- (ii) Bank Guarantee bond either in the name of JV, or in the name of all members of JV as per MOU irrespective of their share in the JV if the JV has not been constituted legally till the date of submission of tender.

As per Clause No. 17.4, 17.5 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.

- 18.7 A copy of Memorandum of Understanding (MOU) duly executed by the JV members on stamp paper shall be submitted by the JV Firm alongwith the tender. The complete details of the members of the JV Firm, their share and responsibility in the JV Firm etc. particularly with reference to financial, technical and other obligations shall be furnished in the MOU. (The MOU format for this purpose is enclosed as **Annexure-X** in this document.

As per Clause No. 17.6 of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip.

- 18.8 Once the tender is submitted, the MOU shall not be modified/ altered/ terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Bid security (if applicable as per para 5.1.2 above), is liable to be forfeited.

As per Clause No. 17.7 of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip.

- 18.9 Approval for change of constitution of JV firm shall be at the sole discretion of the Employer (Railways). The constitution of the JV firm shall normally be allowed to be modified after submission of the tender bid by the JV firm except when modification becomes inevitable due to succession laws etc. provided further there is no change in qualification of minimum eligibility by JV after change of composition. However, the Lead Member shall continue to be the Lead Member of the JV firm. Failure to observe this requirement would render the offer invalid

As per Clause No. 17.8 of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip.

- 18.10 Similarly, after the contract is awarded, the constitution of JV firm shall not be allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions.

As per Clause No. 17.9 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.

- 18.11 On award of contract to a JV firm a single Performance Guarantee shall be submitted by the JV firm as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization advance, Machinery Advance etc. shall be accepted only in the name of the JV firm and no splitting of guarantees amongst the members of the JV firm shall be permitted. **As per Clause No. 17.10 of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip.**

- 18.11.1 On issue of LOA (Letter of Acceptance), the JV entity to whom the work has been awarded, with the same shareholding pattern as was declared in the MOU/JV Agreement submitted alongwith the tender, shall be got registered before the Registrar of the Companies under 'The Companies Act -2013' (in case JV entity is to be registered as Company) or before the Registrar/Sub-Registrar under the 'The Indian Partnership Act, 1932' (in case JV entity is to be registered as Partnership Firm) or under 'The LLP Act 2008' (in case JV entity is to be registered as LLP). A separate PAN shall be obtained for this entity. The documents pertaining to this entity including its PAN shall be furnished to the Railways before signing the contract agreement for the work. In case the tenderer fails to observe/comply with this stipulation within 60 days of issue of LOA, contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The entity so registered, in the registered documents, shall have, inter-alia, following Clauses:

As per Clause No. 17.11of Tender form second sheet Annex.I Part-I of GCC-2022, with up to date correction slip.

- 18.11.2 **Joint and Several Liability** – Members of the entity to which the contract is awarded, shall be jointly and severally liable to the Employer (Railways) for execution of the project in accordance with General and Special Conditions of Contract. The members of the entity shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof. **As per Clause No. 17.11.1 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.**

- 18.11.3 **Duration of the Registered Entity**– It shall be valid during the entire currency of the contract including the period of extension, if any and the maintenance period after the work is completed. **As per Clause No. 17.11.2 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip).**
- 18.12 **Governing Laws** – The Registered Entity shall in all respect be governed by and interpreted in accordance with Indian Laws. **As per Clause No. 17.11.3 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.**
- 18.13 **Authorized Member** – Joint Venture members in the JV MOU shall authorize Lead member on behalf of the Joint Venture Firm to deal with the contract, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV.
- As per Clause No. 17.12 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.**
- 18.14 No member of the Joint Venture Firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the employer (Railways) in respect of the said tender/contract. **As per Clause No. 17.13 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.**
- 18.15 **Credentials & Qualifying Criteria** - Technical and financial eligibility of the JV firm shall be adjudged based on satisfactory fulfillment of the following criteria as laid down in clause 18.1 above: **As per Clause No. 17.15 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip.**
- 19.0 The tenderer shall submit the original copies of the documents as per Annexure-II, Annexure IIA, IX, X, XI, XII, XIII, XIV, XV, XVII, XVIII, XX, XXI, XXIII, XXIV, XXVI, XXVII, XXVIII, XXIX, XXX and as applicable for Sole Proprietor/Partnership firm/LLP/Registered Society & Trust /Limited Company/JV/HUF Firms as and when required by the Railway for the verification. If the required documents are not submitted by the tenderer or any discrepancy between the scanned uploaded documents and original documents then the offer of the tenderer will be summary rejected and the action will be taken as per the various provisions of Certificate to be submitted by the tenderer as per **Annexure-II and Annexure-II A.**
- 19.1 In Contracts for works of New Line/Gauge Conversion/Doubling/Railway Electrification, finalized through Tenders having advertised value more than Rs.100crores, the Contractor shall submit a detailed time programme to the Engineer within 30 days after issue of LOA. The program shall include the physical and Financial Progress vis-à-vis program and forecast cash flow adopting Project Management Software such as **Primavera/Sure Track/MS Project etc.** The program must identify the milestones, interface requirements and program reporting elements. The Contractor shall supply, free of cost one set of authorized software to the Engineer and the soft copy of structured program for the project. This shall be updated every month. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress. Each programme shall include:
- The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage, Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing, each of these stages for work by each Subcontractor, if any, the sequence and timing of inspections and tests specified in the Contract, and a supporting report which includes:
- a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and details showing the Contractor's reasonable estimate for the number of each class of Contractor's Personnel & Equipment, required on the Site for each major stage.
- Unless the Engineer, within 21 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Engineer shall be entitled to rely upon the programme when planning their activities.
- If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer within 15 days in accordance with this Sub-Clause.
- (As per clause No. 19.3 of GCC 2022 with upto date Correction slips)**
- 20.0 **Security Deposit:**

- 20.1 The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfillment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Deposit or the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, to the Contractor.

Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, or may be recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the Railway may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract.

The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract.

Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times.

- 20.2 **Refund of Security Deposit:** Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after the following:

- (a) Final Payment of the Contract as per clause 51.(1) and
- (b) Execution of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and
- (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50 (1), in case applicable.

As per Clause No. 51.(1) and 16.2(i) Part-II of GCC-2022, with up to date correction slip.

- 20.3 Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions, the Security Deposit already with railways under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of these conditions, the Security Deposit shall not be forfeited. As per Clause No. 16.2(ii) Part-II of GCC-2022, with up to date correction slip

- 21.0 No interest shall be payable upon the Bid Security and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub Clause 16.(4)(b) of GCC2022 with up to date correction slip will be payable with interest accrued thereon. As per Clause No. 16.3, Part-II of GCC-2022, with up to date correction slip.

- 22.0 **Performance Guarantee :-**

The procedure for obtaining Performance Guarantee is outlined below:

- (a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.

In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid Security (if applicable as per para 5.1.2 above), and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect.

The failed Contractor shall be debarred from participating in re-tender for that work.

- (i) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5 % of the original contract value A deposit of Cash;
- (ii) Irrevocable Bank Guarantee;
- (iii) Government Securities including State Loan Bonds at 5% below the market value;
- (iv) Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India;
- (v) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India;
- (vi) Deposit in the Post Office Saving Bank;
- (vii) Deposit in the National Savings Certificates;
- (viii) Twelve years National Defense Certificates;
- (ix) Ten years Defense Deposits;
- (x) National Defense Bonds and
- (xi) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of FA & CAO/C/NWR/Jaipur (free from any encumbrance) may be accepted.
- (b) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.
- (c) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.
- (d) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.
- (e) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
- (f) The Engineer shall not make claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the agreement) in the event of:
 - (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
 - (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.
 - (iii) The Contract being determined or rescinded under clause 62 of these conditions.

As per Clause No.16.(4), Part-II of GCC-2022, with up to date correction slip.

(Authority: Rly Bd's L.No.2020/CE-I/CT/3E/GCC/Policy dated 10.01.2022)

23.0 **MEASUREMENTS OF CONTRACTOR WORKS.**

- 23.1 The tenderer whether sole proprietor, a company or a partnership firm / joint venture (JV) / registered society /registered trust etc. if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration. **As per Clause No. 15 of Annexure I Part-I of GCC-2022, with up to date correction slip**

Quantities in Bill(s) of Quantities Annexed to Contract: The quantities set out in the accepted Bill(s) of Quantities with items of works quantified are the estimated quantities of the works and they shall not be taken as the actual and correct quantities of the work to be executed by the Contractor in fulfillment of his obligations under the contract.

(As per clause 44- Part-II of General Conditions of Contract 2022 with upto date correction slips)

23.2 **Measurement of works by Railway :**

The contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Engineer or the Engineer's representative in accordance with the rules prescribed for the purpose by the Railway. The quantities for items the unit of which in the accepted Bill(s) of Quantities is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one, for items the unit of which in the accepted Bill(s) of Quantities is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the contractor who shall be present at the site and shall sign the results of the measurements (which shall also be signed by the Engineer or the Engineer's representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measurements. Failing the contractor's attendance, the work may be measured up in his absence and such measurements shall notwithstanding such absence, be binding upon the contractor whether or not he shall have signed the measurement books provided always that any objection made by him to measurement shall be duly investigated and considered in the manner set out below :

- (a) It shall be open to the contractor to take specific objection to any recorded measurements or Classification on any ground within seven days of the date of such measurements. Any re-measurement taken by the Engineer or the Engineer's representative in the presence of the Contractor or in his absence after due notice has been given to him in consequence of objection made by the Contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements.
- (b) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.

(As per Clause No. 45 (i), Part-II of GCC-2022, with up to date correction slip)

23.3 **Measurement of Works by Contractor's Authorized Representative (In case the contract provides for the same):**

- (a) The contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 part II of GCC-2022, with up to date correction slip on of these conditions on the measurements taken by the contractor's authorized engineer in accordance with the rules prescribed for the purpose by the Railway. The quantities for items the unit of which in the accepted Bill(s) of Quantities is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted Bill(s) of Quantities is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time.

The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the Engineer. The date and time of test checks shall be communicated to the contractor who shall be present at the site and shall witness the test checks, failing the contractor's attendance the test checks may be conducted in his absence and such test checks shall notwithstanding such absence be binding upon contractor provided always that any objection made by contractor to test check shall be duly investigated and considered in the manner set out below :

- (i) It shall be open to the contractor to take specific objection to test checks of any recorded measurement within 7 days of date of such test checks. Any re-test check done by the concerned Railway's authority in the presence of the Contractor or in his absence after due notice given to him in consequent of objection made by the contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements.
- (ii) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.

(b) **Incorrect measurement, actions to be taken** : If in case during test check or otherwise, it is detected by the Engineer that agency has claimed any exaggerated measurement or has claimed any false measurement for the works which have not been executed; amounting to variation of 5% or more of claimed gross bill amount, action shall be taken as following :

- (i) On first occasion of noticing exaggerated/false measurement, engineer shall recover liquidated damages equal to 10% of claimed gross bill value.
- (ii) On any next occasion of noticing any exaggerated/false measurement, railway shall recover liquidated damages equal to 15% of claimed gross bill value. In addition the facility of recording of measurements by contractor as well as release of provisional payment shall be withdrawn. Once withdrawn, measurements shall be done by railway as per clause 45(i) of GCC. The detailed procedure for recording of measurements, provisional payment, test check, final payment etc. shall be as per para 1316 A of the Indian Railway Code for Engineering Department. As per Clause No. 45 (ii), Part-II of GCC-2022, with up to date correction slip

Note :- Contractor's authorized engineer' shall mean a graduate engineer or equivalent, having more than 3 year experience in the relevant field of construction work involved in the contract, duly approved by Deputy Chief Engineer. As per Clause No. 1(1)(q), Part-II of GCC-2022, with up to date correction slip.

23.4 Contractor's e-MB for measurements & Billing of works in IR-WCMS implemented as per Railway's latest instructions,

24.0 **PAYMENT OF CONTRACTUAL WORKS**

24.1 **"On-Account" Payments:** The contractor shall be entitled to be paid from time to time by way of "On-Account" payment only for such works as in the opinion of the Engineer he has executed in terms of the contract. All payments due on the Engineer's/Engineer's Representative's certificates of measurements or Engineer's certified "Contractor's authorized engineer's measurements" shall be subject to any deductions which may be made under these presents and shall further be subject to, unless otherwise required by Clause 16 of these Conditions, a retention of six percent by way of Security Deposits, until the amount of Security Deposit by way of such retentions shall amount to 5 % of the total value of the contract provided always that the Engineer may by any certificate make any correction or modification in any previous certificate which shall have been issued by him and that the Engineer may withhold any certificate, if the works or any part thereof are not being carried out to his satisfaction.

As per Clause No. 46.(1) Part-II of GCC-2022, with up to date correction slip

24.2 On account Payments Not Prejudicial To Final Settlement "On-Account" payments made to the Contractor shall be without prejudice to the final making up of the accounts (except where measurements are specifically noted in the Measurement Book as "Final Measurements" and as such have been signed by the Contractor and Engineer's/ Engineer's Representative) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such accounts nor of any particular quantity of work having been executed nor of the manner of its execution being satisfactory. As per Clause No. 46(3) Part-II of GCC-2022, with up to date correction slip

24.3 **Rounding off Amounts:** - The total amount due on each certificate shall be rounded off to the nearest rupee, i.e. sum less than 50 paisa shall be omitted and sums of 50 paisa and more up to ₹1 will be reckoned as ₹ 1. As per Clause No. 46.2 Part-II of GCC-2022, with up to date correction slip

24.4 **Final Payment:** On the Engineer's certificate of completion in respect of the works, adjustment shall be made and the balance of account based on the Engineer or the Engineer's representative's certified measurements or Engineer's certified "contractor's authorized engineer's measurements" of the total quantity of work executed by the Contractor up to the date of completion and on the rates accepted in Bill(s) of Quantities and for extra works on rates determined under Clause 39 of these Conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having signed delivered to the Engineer enclosing either a full account in detail of all claims he may have on the Railway in respect of the works or having delivered No Claim Certificate and the Engineer having after the receipt of such account given a certificate in writing that such claims are not covered under excepted matter i.e. Clauses 7(j), 8, 18, 22(5), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2) and 62(1)63(iv) and 63.2.11 of Standard General Conditions of Contract or in any Clause(stated as excepted matter) of the Special Conditions of the Contract, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found to be in good and substantial order, that all properties, works and things, removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the Railway for or in the respect of damage or loss by from or in consequence of the works, have been satisfied agreeably and in conformity with the contract.

(As per Clause No. 51(1) of Part-II GCC-2022, with up to date correction slip).

25.0 INSTRUCTIONS OF MODE OF PAYMENT IN WORKS TENDERS OR SERVICE TENDER THROUGH LETTER OF CREDIT (LC)(Rly Bd's L.No. 2018/CE-I/CT/9 dated 04.06.2018)

- 25.1.1 For all the tenders having advertised cost of Rs. 10 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement.
- 25.1.2 This option of taking payment through LC arrangement has to be exercised in IREPS (Indian Railway Electronic procurement System - the e-application on which tenders are called by Railways) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
- 25.1.3 The option so exercised, shall be an integral part of the bidder's offer.
- 25.1.4 The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.

In case tenderer opts for payment through LC following shall be the procedure to deal release of payment through LC:

- (a) The LC shall be a sight LC,
- (b) The contractor shall select his Advising/Negotiating bank for LC. The incidental cost towards issue of LC and its operation thereof shall be borne by the contractor.
- (c) SBI, New Delhi, Main Branch will be the nodal branch for issue of LCs based on online requests received from Railway Accounts Units for tenders opened in financial year 2019. SBI branches where the respective Railway Accounts Office has its Account (local SBI branch) will be the issuance/ reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @ 0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.
- (d) The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the request of the contractor. The value of LC to be opened initially as well as extended thereafter shall be finalized by the engineer in consultation with the contractor on the basis of expected progress of work.
- (e) The LC terms and conditions shall inter-alia indemnify and save harmless the Railway from and against all losses, claims and demands of every nature and description brought or recovered against the Railway by reason of any act or omission of the contractor, his agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by Railways on this account shall be considered as reasonable compensation and paid by contractor.
- (f) The LC terms and conditions shall inter-alia provide that Railways will issue a Document of Authorization (format enclosed as Annexure-'B') after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.
- (g) The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorization.
- (h) The Document of Authorization shall be issued by Railway Accounts Office against each bill passed by Railway.
- (i) On issuance of Document of Authorization, a copy of Document of Authorization shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorization shall also be sent by Railway Accounts Office to Railway's bank (Local SBI Branch).
- (j) The contractor shall take print out of the Document of Authorization available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.
- (k) The payment against LC shall be subject to verification from Railway's Bank (Local SBI Branch).
- (l) The contractor's bank (advising bank) shall submit the documents to the Railway's Bank (Local SBI Branch).
- (m) The railway's bank (issuing bank) shall, after verifying the claim so received with reference to the digitally signed Document of Authorization received from Railway Accounts Office, release the payment to contractor's bank (advising bank) for crediting the same to contractor's account.

- (n) Any number of bills can be dealt within one LC, provided the sum total of payments to contractor is within the amount for which LC has been opened.
- (o) The LC shall be closed after the release of final payment including PVC amount, if any to the contractor.
- 25.2 The release of performance guarantee or security deposit shall be dealt directly by railway with the contractor i.e., not through LC.
- 25.3 **For opening of LC, executive department shall make a request letter to concerned Accounts Department on a format, placed as Annexure-‘A’.**
- 26.0 **GUIDELINES FOR ELECTRONIC REVERSE AUCTION FOR WORKS, SERVICE CONTRACTS: (Authority : No. 2017/Trans/01/Policy/Pt-S Dated 28.03.2018)**

- 26.1 (a) Selection criteria for tender cases of Works and Services proposed through Reverse Auction (eRA) route:
- (b) Following method of purchase through Reverse Auction shall be adopted for Works and Service tenders valued more than Rs. 50 Cr. in each case.
- (c) The process of procurement through Reverse Auction shall be followed only in case of tenders where there are at least three technically eligible offers.

26.2 **Financial Bids in single currency/parameter only shall be allowed.**

Procedure for award of contracts through Reverse Auction

- (a) The procedure discussed herein shall be fully implemented through IREPS. Any reference to Reverse Auction in these instructions shall imply e-RA.
- (b) Conduct and reporting of Reverse Auction shall be as per Annexure-C.
- 26.2.1 **The essential technical and commercial parameters will be specified in a transparent manner in the tender document. No deviation to such essential Technical & Commercial conditions shall be permitted to the tenderer(s) in the electronic bid form.**

Technical Bid and Initial Price Offer :

- (a) In case of Works and Services related tenders, e-RA shall be adopted only for those cases where evaluation is on the basis of single parameter/currency.
- (b) Bidder shall be simultaneously required to electronically submit a Technical & Commercial Bid and Initial Price Offer. The offers found eligible for award of contract/meeting eligibility criteria shall be categorized as Qualified for Award of Contract for the purpose of e-RA.
- (c) Offers not complying with essential technical & commercial requirements of the tender shall be declared as Ineligible for award of contract.
- 26.2.2 **Initial Price Offer of only those bidders categorized as Qualified for Award of contract shall be opened and tabulated by system separately.**

(a) **Financial Bid**

Financial Bid shall comprise of Final Price Offer obtained through Reverse Auction. Following conditions and procedure shall be followed in selection of bidders for conduct of Reverse Auction:

- (b) **Selection of vendors for Reverse Auction for award of Contract in Works and Services tenders :**

Number of tenderers Qualified for Award of contract/ Bulk order	Number of tenderers to be selected for Reverse Auction.	Remarks
< 3	NIL*	The bids disallowed from participating in the Reverse Auction shall be the highest bidder(s) in the tabulation of Initial Price Offer. In case the highest bidders quote the same rate, the Initial Price Offer received last, as per time log of IREPS, shall be removed first, on the principle of last in first out, by IREPS system itself.
3 to 6	3	
More than 6	50% of Vendors Qualified for Bulk Order/ award of contract (rounded off to next higher integer).	

Note:-

- (i)* If the number of tenderers qualified for Award of Contract is less than 3 RA shall not be done and tender may be decided on the basis of Initial Price Offer(s).

- (ii) Make in India criteria: All bidders eligible for benefits under Public Procurement (Preference to Make in India) Order – 2017, found Qualified for Award of Contract and are within the specified range of price preference of lowest Initial Price Bid shall be permitted to participate in the Reverse Auction, irrespective of their interse ranking on the basis of Initial Price Bid. Such bidders shall be over and above the number of vendors selected for Reverse Auction, as per Para 26.2.2(a) above. During Reverse Auction process, bidders shall not be allowed to bid a rate higher than the lowest Initial Price Offer.
- 26.3 Reverse auction among bids categorized as Qualified for Award of Contract shall be conducted on IREPS platform. Bidders shall be able to see the auction screens.
- 26.4 **PROCEDURE FOR CONDUCT AND REPORTING OF R.A.**
1. The tendering authority shall solicit bids through an invitation to the electronic Reverse Auction to be published or communicated in accordance with the provisions similar to e-procurement.
 2. Depending upon the nature of item/work/service and complexity of case on hand, following shall be indicated in the tender for e-RA itself.
 - (a) Initial e-RA period: This shall be the initial time interval for e-RA; e-RA shall be open for this duration.
 - (b) Auto extension period: In case any offer is received in the time period equal to auto extension period before close of initial e-RA period, the e-RA shall be extended for time equal to auto extension period from the time of last bid. There shall be no upper limit on number of auto extensions. When no offer is received in the last auto extension period, e-RA shall close.
 - (c) Minimum decrement in percentage of value of the last successful bid.
 3. Date and time for start of e-RA shall be communicated to qualified tenderers by the convener after evaluation of the Technical Bids.
 4. After submission of Initial Price Bid, tenderers will not be allowed to revise the taxes and other levies.
 5. During auction period, identities of the participating tenderers will be kept hidden.
 6. Minimum admissible bid value will be last bid value minus minimum decrement as specified by the tendering authority before starting of reverse auction. Starting point for reverse auction shall be the lowest initial Price Bid of the Tenderer eligible for award of contract.
 7. After close of the RA, tabulation of lot (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers.
 8. Railway users can also view the bidding history in chronological order.
 9. Bidders will not be allowed to withdraw their last offer.
 10. L-1 will be defined as the lowest bid obtained after the closure of R.A. session for Goods, Works and Services tenders.

Annexure-‘A’***(Clause No 25.3 General Instructions to Tenderers)***

Request letter from Executive branch to Accounts Office for opening of LC.

Office of Railway,

No.....
The PFA/Sr.DFM/Dy. FA
HQ/Division/Workshop/Const.
.....

Dated :-...

Sub:- Opening of LC –

Ref:- Supply Order / Contract Agreement No....

It is requested to open a sight LC against the above referred or The details of beneficiary are as under:

- (i) Name of Contractor/Supplier
- (ii) Vendor code
- (iii) Address
- (iv) Tender No.
- (v) Contract Agreement No.
- (vi) Description of Goods/Service
- (vii) Value of Contract
- (viii) Stages of payment
- (ix) Expected payment within 6 months (LC Amount)
- (x) Beneficiary bank details;

- (a) Bank name
- (b) Address
- (c) Account No.
- (d) IFSC Code

It is certified that the supplier/contractor has exercised the option of taking payment due against the tender, through LC arrangement in IREPS portal at the time of bidding itself and the option has been flagged in the IREPS. This has the approval of

- (xi) Validity/period for which LC is to be opened.....

(Signature)

Name.....

Designation.....

(Official Seal)

Annexure-‘B’

(Clause No. 24.1.4(f) of General Instructions to Tenderer)

LCDA No. (18 DIGIT IPAS GENERATED NO.)

Dated:-

DOCUMENT OF AUTHORIZATION

Ref.: (i) Works Contract/ Supply Contract No..... Dated.....
(ii) Inland Letter of Credit No.....Dated.....

This document is issued against contract No (FROM IREPS) DATED.....
FOR WORK OF (DESCRIPTION OF WORK FROM
IREPS).....

The beneficiary of the aforementioned Letter of Credit M/s (NAME AND VENDOR
CODE)..... (Vendor Code..... as per IREPS) is entitled to receive payment aggregating INR
.....SSS (FROM ABSTRACT OF BILL PASSED)..... Out of total LC amount of INR (FROM
MASTER TABLE OF LC OPENED) Against the first/second* commercial Invoice No. (FROM
IPAS) Dated..... FROM IPAS..... for INR (FROM IPAS)raised against the above
contract from State Bank of India..... (Branch FROM LC MASTER TABLE) on the strength of this
Certificate.

The details of payment already made to the beneficiary under this Letter of Credit are as follows:

S. No.	Invoice No.	Invoice date	Invoice Amount (INR)	LCDA No.	LCDA date	Amount paid (INR)
1						
2						
Total Paid						

THIS PAYMENT: sass.....

LC balance after this payment:

(Signature of authorized Railway authority)

Name

Designation

Official Seal

Annexure-‘C’

(Clause No. 26.0 of General Instructions to Tenderers)

Procedure for Conduct and Reporting of R.A.

1. The tendering authority shall solicit bids through an invitation to the electronic Reverse Auction to be published or communicated in accordance with the provisions similar to e-procurement.
2. Depending upon the nature of item/work/service and complexity of case on hand, following shall be indicated in the tender for e-RA itself.
 - (a) Initial e-RA period: This shall be the initial time interval for e-RA, e-RA Shall be open for this duration.
 - (b) Auto extension period : In case any offer is received in the time period equal to auto extension period before close of initial e-RA period, the e-RA shall be extended for time equal to auto extension period from the time of last bid. There shall be no upper limit on number of auto extensions. When no offer is received in the last auto extension period, e-RA shall close.
 - (c) Minimum decrement in percentage of value of the last successful bid.
3. Date and time for start of e-RA shall be communicated to qualified tenderers by the convener after evaluation of the Technical Bids.
4. After submission of Initial Price Bid, tenderers will not be allowed to revise the taxes and other levies.
5. During auction period, identities of the participating tenderers will be kept hidden.
6. Minimum admissible bid value will be last bid value minus minimum decrement as specified by the tendering authority before starting of reverse auction. Starting point for reverse auction shall be the lowest initial Price Bid of the Tenderer eligible for award of contract.
7. After close of the RA, tabulation of last (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers.
8. Railway users can also view the bidding history in chronological order.
9. Bidders not be allowed to withdraw their last offer.
10. L-1 will be defined as the lowest bid obtained after the closure of R.A. session for Goods Works and Services tenders.

(Authority : No. 2017/Trans/01/Policy/Pt-S Dated 28.03.2018)

ANNEXURE – D

Reference -Para 10.3 & 17.15.3 of Tender Form (Second Sheet) of Annexure I of ITT

**TENDERER'S CREDENTIALS (BID CAPACITY)
RAILWAY**

For tenders having advertised value more than Rs 20 crore wherein eligibility criteria includes bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under:

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

Where,

A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress.

N= Number of years prescribed for completion of work for which bids has been invited.

B =Value of existing commitments and balance amount of ongoing works with the tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender .

Note:

- (a) The Tenderer(s) shall furnish the details of -
- (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, and
- (ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished.

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

- (b) In case if a bidder is JV, the tenderer(s) must furnish the details of
- (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A, and
- (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished.

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

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

SPECIAL CONDITIONS OF CONTRACT (GENERAL)

- 1.0 **Applicability:** These instructions and conditions of contract shall be applicable for all the tenders and contracts of railways for execution of 'Works' as defined in GFR 2017.

These special conditions and the work schedule shall govern the works to be executed under this contract in addition to and/or in part supersession of the General Conditions of Contract-2022 and Standard Specifications as laid down in the Indian Railways Unified Standard Specifications (Works and Material) - 2021, CPWD Specifications 2021 Vol I & II as amended/ updated by correction Slips on or before the opening of tender. As per Clause No. 1.01 Part-I of GCC-2022, with up to date correction slip.

- 2.0 **Order of Precedence of Documents:** In a contract agreement, in case of any difference, contradiction, discrepancy, with regard to Conditions of tender/contract, Specifications, Drawings, Bill(s) of quantities etc., forming part of the tender/contract, the following shall be the order of precedence:

- (i) Letter of Award /Acceptance (LOA)
- (ii) Bill(s) of Quantities.
- (iii) Special Conditions of Contract
- (iv) Technical Specifications as given in tender documents
- (v) Drawings
- (vi) Indian Railways Standard General Conditions of Contract.
- (vii) Indian Railways Unified Standard Specification (IRUSS-2010) updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract.
- (viii) CPWD Specifications 2019 Vol-I & II updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract.
- (ix) Indian Railways Unified Standard Specifications (Works and Material) updated with correction slips issued up to date of inviting of tender or as otherwise specified in the tender documents, if applicable in the contract.
- (x) IR Specifications/Guidelines updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
- (xi) Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.

(As per Clause No. 1.01 Part-I of GCC-2022, with up to date correction slip)

- 3.0 Any special condition stated by the tenderer(s) in the covering letter submitted along with the tender shall be deemed as part of contract to such extent only as have explicitly been accepted by the Railway.

4.0 **USE OF RAILWAY LAND**

- 4.1 Use of Railway land required by the contractor(s) for constructing temporary offices, quarters, hutments etc. for the staff and for storing materials etc. would be permitted to him/them free of charge by Railway, if available. The location of these offices, hutments, stores etc., will be subject to the approval of the engineer or his authorized representative. The land will be restored to Railway by the contractor(s) in the same condition as when taken over or in vacant condition as desired by the engineer, after completion of the work or at any earlier day, as specified by the Engineer. The failure to do so will make the contractor(s) liable to pay the cost incurred by the Railway for getting possession of land.

- 4.2 The tenderer(s) shall also acquaint himself /themselves with the availability of land, working space for his/their works etc. The Railway will not acquire any land for the purpose of movement of vehicles of the Contractor/s for executing the work by the contractor/s.

5.0 **USE OF PRIVATE LAND**

The Contractor will have to make his/their own arrangements for use of private land, outside Railway limits for due fulfillment of contract or for borrow pits, approaches, etc., directly with the land owners or local authority and to pay such rents if any as are payable as may be mutually agreed upon between them.

6.0 FIGURES, DIMENSIONS ETC.

Figures, dimensions and drawings shall supersede measurements by scale and drawing to larger scale shall take precedence over those to a smaller scale. Special dimensions or directions in the specification shall supersede all else.

7.0 PLEA OF CUSTOM

The plea of custom prevailing will not on any account be permitted as excuse for an infringement of any of the conditions of the contract or specifications.

8.0 SEIGNIORAGE CHARGES

8.1 The contractor/s shall comply with all the instructions issued by the Chief Inspector of Mines in respect to the safety of the workmen and the working of quarries and maintain register in which shall be recorded, such information/s for supply annually to Chief Inspector of Mines of the Government of India, as required by him. Final payment will be released after producing the no dues certificate from Mining department or any other concerned office of the area. The contractor/s are required to produce necessary documentary proof regarding payment of royalty to Mining Department of the stone ballast supplied, as and when demanded by the Railway administration. Final Bill shall be released only after production of "No Dues" certificate from the Mines Department, by the contractor.

8.2 The rates quoted by the tenderer shall be inclusive of seigniorage charges on all items of work to be executed under the contract, applicable as on the last date of submission of tender.

9.0 TAXES –

The accepted rates should be deemed to include all taxes direct or indirect Including Income Tax leviable under Central/State or Local Bodies Act or Rules, Octroies, Tolls, Royalties, Seigniorages, Cess and similar imposts that may be prevailing from time to time in respect of land, structures and all materials supplied in the Performance of this Contract.

10.0 The Building and Other Construction workers (Regulation of Employment and conditions of service) Act, 1996 and the Building and Other Construction Workers Welfare Cess Act, 1996: The tenderers for carrying out any construction work must get themselves Registered with the Registering Officer under section-7 of the "Building and other construction workers act, 1996" and rules made there to by the concerned state Govt. and submit certificate of Registration issued from the Registering Officer of the concerned State Govt. (Labour Department). The Cess shall be deducted from contractor's Bills as per provision of the Act.

11.0 DEDUCTION OF INCOME TAX AT SOURCE

In terms of new section 194 inserted by the Finance Act 1972 in the Income Tax Act 1961, the Railway shall at all the time arranging payment to the contractor sub-contractor (in case of sub-contractor only when the Railway responsible for payment of the consideration to him under the contract) for carryout any work (including supply of labour for carryout the work under the contract) be entitled to deduct income tax at source or income comprised in the sum of such payments. The deduction towards income tax to be made at source from the payments due to non-residents shall continue to be governed by section 195 of the Income Tax Act, 1961.

12.0 ROYALTIES AND PATENT RIGHTS

The contractor shall defray the cost of all royalties, fees and payment in respect of patents, patent rights and licenses which may be payable to patentee, license or other person or corporation and shall obtain all necessary licenses. In case of any breach (whether willfully or inadvertently) by the contractor of this provision, the contractor shall indemnify the Railway and its officers, servants, representatives against all claims, proceedings, damages, cost, charges, acceptance, loss and liability which they or any of them, may sustain, incur or be put to by reason or inconsequence of directly or indirectly or any such breach and against payment of any royalties, damages or other monies which the Railways may have to make to any person or paid in total to patent rights in respect of the users of any machine, instrument, process, articles, matters of thing constructed, manufactured, supplied or delivered by the contractors to his order under this contract.

13.0 NOTICE TO PUBLIC BODIES

The Contractor(s) shall give to the municipality, police and other authorities all notices that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges, which may be leviable on account of his operations in executing the contract. He should make good any damage to adjoining premises whether public or private and supply and maintain any lights, etc., required at night.

14.0 DAMAGE BY ACCIDENTS, FLOODS OR TIDES

The contractor shall take all precautions against damage from accident, floods or tides. No compensation shall be paid to the contractor for his plant or material lost or damaged by any cause whatsoever. The contractor shall make good the damages at his cost to any structure or part thereof by any cause during the course of the work.

15.0 SERVICE ROADS

The Contractor/s will be permitted to make use of existing service roads, or service roads constructed by the Railway for its use free of cost. New service roads required by the contractor/s either near the work site or elsewhere within or outside railway limits for carriage of materials or for any other purpose whatsoever, will have to be constructed and maintained by the contractor/s at his/their own cost. For the purpose of construction of service roads on Railway land, permission will be given free of charge. If any land other than railway land is necessary to be acquired or to be entered upon, permission to enter in the land will have to be arranged by the contractor/s at his/ their cost. The contractor/s will not prefer any claim, whatsoever on this account. The Railway, however, reserves the right to make use of such service roads as may be constructed by the contractor/s without payment of any charges.

16.0 EMERGENCY WORKS

In the event of any accident or failure occurring in, on or about the work or arising out of or in connection with the construction, completion or maintenance of the works, which in the opinion of the Engineer requires immediate attention, the Railway may bring its own workmen or other agency to execute or partly execute the necessary work or carry out repairs if the Engineer considers that the contractor/s is/are not in a position to do so in time and charge the cost thereof, which will be determined by the Chief Administrative Officer (C), North Western Railway, to the contractor.

17.0 Maintenance of Works:

- 17.1 The Contractor shall at all times during the progress and continuance of the works and also for the period of maintenance specified in the Tender Form after the date of issue of the certificate of completion by the Engineer or any other earlier date subsequent to the completion of the works that may be fixed by the Engineer, be responsible for and effectively maintain and uphold in good substantial, sound and perfect condition all and every part of the works and shall make good from time to time and at all times as often as the Engineer shall require, any damage or defect that may during the above period arise in or be discovered or be in any way connected with the works, provided that such damage or defect is not directly caused by errors in the contract documents, act of providence or insurrection or civil riot, and the Contractor shall be liable for and shall pay and make good to the Railway or other persons legally entitled thereto whenever required by the Engineer so to do, all losses, damages, costs and expenses they or any of them may incur or be put or be liable to by reasons or in consequence of the operations of the Contractor or of his failure in any respect.

(As per Clause No. 47 Part-II of GCC-2022, with up to date correction slip)

17.2 Certificate of Completion of Works:

As soon as in the opinion of the Engineer, the work has been completed and has satisfactorily passed any final test or tests that may be prescribed, the Engineer shall issue a certificate of completion duly indicating the date of completion in respect of the work and the period of maintenance of the work shall commence from the date of completion mentioned in such certificate. The certificate, inter alia, should mention that the work has been completed in all respects and that all the contractual obligations have been fulfilled by the Contractor and that there is no due from the Contractor to Railways against the contract concerned.

The Engineer may also issue such a certificate indicating date of completion with respect to any part of the work (before the completion of the whole of work), which has been both completed to the satisfaction of the Engineer and occupied or used by the Railway. When any such certificate is given in respect of part of a work, such part shall be considered as completed and the period of maintenance of such part shall commence from the date of completion mentioned in the completion certificate issued for that part of the work.

As per Clause No. 48(1) Part-II of GCC-2022, with up to date correction slip.

- 17.2.1 **Offloading of Part(s) of Work:** At the final stage of completion/ commissioning of work, in case the contractor fails to complete the final part(s) of the work and the value of such part(s) of the work is limited to 5% of the original contract value, the Engineer may allow/decide for offloading of such part(s) of works, either after the Contractor's request in writing to do so or after serving a 14 (Fourteen) days suo-moto notice (as per annexure- VII-A), if the Engineer is of the opinion that :-

- (i) Such Offloading of works (up to 5% of original contract value) would enable successful completion of contract/work,
- (ii) Termination/ Part termination of the contract at this stage is not be in the interest of the Railway/work;, and
- (iii) The anticipated additional cost for execution of such works through other mode would not be substantial and can be recovered from the pending dues of the contractor;

The Contractor shall be informed, in due course, by the Engineer of the mode and cost of execution of such offloaded work through other agency(ies)(as per annexure- VII-B). The extra expenditure so incurred in execution of the offloaded work, shall be recovered from subsequent Bill(s) or any other dues of the Contractor, but not exceeding the value of Performance Guarantee available in the contract. There shall be no other repercussion of such offloading on execution of the balance contract. The Contractor shall have no claim on account of above mentioned offloading of works.

(As per Clause No. 40A Part-II of GCC-2022, with up to date correction slip)

- 17.3 **Final Supplementary Agreement:** After the work is completed or otherwise concluded by the parties with mutual consent, and taken over by the Railway as per terms and conditions of the contract agreement, and there is unequivocal no claim on either side under the contract other than mentioned in item 4 of Annexure XIV, the parties shall execute the final supplementary agreement as per Annexure XIV of the GCC

(As per Clause No. 48(3) Part-II of GCC-2022, with up to date correction slip.

17.4 **MAINTENANCE PERIOD**

- (a) For Supply, consultancy and hiring items. The maintenance period is limited to date of completion of work. All works other than mentioned in clause 17.4 (a),
- (b) The tenderer(s) shall be required to maintain the work effectively for a period of six months from the date of completion as per Clause 47 of the General Conditions of Contract-2022 and no part refund of Security Deposit shall be permitted during the maintenance period mentioned above.

17.5 **Maintenance Certificate:**

The Contract shall not be considered as completed until a Maintenance Certificate, if applicable shall have been signed by the Engineer stating that the works have been completed and maintained to his satisfaction. The Maintenance Certificate shall be given by the Engineer upon the expiration of the period of maintenance or as soon thereafter as any works ordered during such period pursuant to Sub Clause (2) to Clause 48 of these Conditions shall have been completed to the satisfaction of the Engineer, and full effect shall be given to this Clause notwithstanding the taking possession of or using the works or any part thereof by the Railway.

The Competent Authority to issue above Maintenance Certificate shall normally be the authority who is competent to sign the contract. If this Competent Authority is of the rank lower than JA Grade, then a JA Grade Officer (concerned with the work) should issue the certificate. The certificate, inter alia, should mention that the work has been completed in all respects and that all the contractual obligations have been fulfilled by the Contractor and that there is no due from the Contractor to Railways against the contract concerned. **(As per clause No. 50(1) Part-II of GCC-2022, with up to date correction slip)**

18.0 **INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE**

- 18.1 The contractor shall at all times, execute the contract work only in the presence and under the supervision of the Engineer's Representative or a Railway employee specifically appointed on his behalf. No work under the contract shall, therefore, be commenced by the contractor without the express permission of the Engineer's representative.
- 18.2 The contractor shall always execute the work under this contract in strict compliance with the instructions/directives by the Engineer's representative. Any act of non-compliance with the instruction/directives issued by the Engineer's representative shall be considered as a default of the contractor where after the Railway shall be free to take further appropriate action as provided in the contract for dealing with such defaults of the contractors. The decision of the Engineer-in-charge whether there has been an act of noncompliance with the instruction/directives of the Engineer's representative for the purpose of this clause shall be final and conclusive.
- 18.3 The instructions/directives by the Engineer's representative shall not, however, absolve the contractor of his responsibility or reduce his responsibility in any manner whatsoever in regards to maintaining at all times the safe working conditions at the work site.

- 18.4 Any instructions or approval given by the Engineer's representative to Contractor in connection with the works shall bind the Contractor as though it had been given by the Engineer provided always as follows:
- (a) Failure of the Engineer's representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or material and to order the removal or breaking up thereof.
- (b) If the Contractor shall be dissatisfied by reason of any decision of the Engineer's representative, he shall be entitled to refer the matter to the Engineer who shall there upon confirm or vary such decision.

(As per Clause No. 21.0 Part-II of GCC-2022, with up to date correction slip).

19.0 **NON-COMPLIANCE WITH THE INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE**

- 19.1 The contractor shall always comply with the instructions/directives issued by the Engineer's representative from the time to time. In the event of any non-compliance with such instructions/directives, apart from and in addition to other remedies available to the Railway as specified herein above the Engineer's representative may employ at the works Railway's workmen with necessary equipment as considered appropriate and adequate by him to provide the requisite conditions for the safe and unhampered movement of Railway traffic. The decision of the Engineer's representatives in regard to the need of appropriateness and adequacy of the deployment of the Railway Workmen with necessary equipment shall be final and conclusive.
- 19.2 When the Railway workmen with necessary equipment are deployed in the above manner, recovery at the following rate shall be made from the contractor's dues under this contract or any other money of the contractor available with the Railway under this contract. The recovery for the total Railway Workmen Hours employed at the rate of Rs. 100/- (Rupees Hundred only) per Workmen-Hour irrespective of the type and grade of the Railway Employee actually employed. The aggregate period of the Workman-Hours for the above recoveries shall be reckoned from the time the Railway Workmen are actually deployed at the work site till the work is completed to the satisfaction of the Engineer's Representative whose decision in this regard shall be final and conclusive.
- 19.3 During the above-mentioned period of suspension of work, the contractor shall not in any manner attempt to carry out any work at the work site. Any such attempt of the contractor shall be deemed to be an unauthorized work on the work site. For such acts, the contractor shall then be liable for further appropriate action under the relevant provisions of the Indian Railway Act.

20.0 **WARRANTY**

The Contractor(s) shall warrant the materials supplied under this contract to be free of any defects in material and workmanship under ordinary use and service.

21.0 **SHIFTING OF ELECTRICAL/TELEGRAPH WIRES**

In some stretches, high-tension grid towers /electric telegraph/telephones wires or posts etc. are to be shifted. It is expected that the electric lines/towers will be shifted in good time but in case, there is any delay on this account suitable extension in date of completion will be considered and given to the contractor for only the effected portion and no compensation whatsoever in this respect or due to the delay thus caused will be payable and contractor has to adopt such methods of execution of earthwork so as not to cause any damage to existing structure lines etc.

22.0 **HANDING OVER OF SITE FOR WORK**

The entire land required for this work is available. However, Railway may not hand over the entire land required for completion of this work for making bank/cutting or excavation to the contractor(s) due to any unavoidable reasons. Land may be handed over in different stretches, which may not be continuous. Contractor(s) will be required to carry out the work in available stretches. If some stretch of land cannot be handed over to the contractor for borrowing earth or making bank/cutting within the contract period then suitable extension will be granted only for the affected portion without any payment of extra claim to the contractor.

23.0 **Working during Night:**

The Contractor shall not carry out any work between sun-set and sun-rise without the previous permission of the Engineer. However, if the Engineer is satisfied that the work is not likely to be completed in time except by resorting to night work, he may order the same without confirming any right on the Contractor for claiming any extra payment for the same.

(Authority Clause No. 23 Part-II of GCC-2022, with up to date correction slip)

24.0 MODE AND TERMS OF PAYMENT

- 24.1 All payments will normally be made only for finished works on the basis of mode and terms of payments agreed upon and provided in the contract.

24.2 MANNER OF PAYMENT

Payment to the contractor will be made through Electronic Fund Transfer (EFT) for payment of running and final bills. The tenderer (s) will also fill the **Annexure-I** indicating the bank account number, name of bank and bank specific code number (MICR/IFSC) as enclosed. The conditions and **Annexure-I** will be part of the tender document.

- 24.3 All suppliers (i.e. registered persons under GST) of Indian Railways (excluding notified exempted categories) having aggregate turnover more than INR 20 Crores in any preceding Financial year from 2017-18 onwards, shall mandatorily issue e-invoices having QR code embedding IRN and requisite particulars against all taxable suppliers being made to Indian Railways.

(Authority : Rly Bd's letter No. 2016.AC/II/01/06/CRIS dated 09.03.2022)

25.0 ACCIDENT/NATURAL CALAMITIES

- 25.1 Vehicle and equipment of the contractor can be drafted by Railway Administration in case of accidents/natural calamities involving human lives.

- 25.2 For payment purpose, the item may be operated as New Non-Schedule (NS Item) as per existing norms and powers delegated.

- 25.3 Contractor may submit list of vehicles and equipment available with him.

26.0 MOBILIZATION ADVANCE (For Tender of value above Rs. 50 Crores)

(Authority: L.No.2022/CE-1/CT/GCC-2022 / Policy Dated 27.04.2022 with C.S.No.58 of Engg. Code)

Not applicable as the costing of work is below Rs. 50 Crs. hence deleted.

27.0 STAGE PAYMENT ON SUPPLY OF STEEL IN WORKS CONTRACT

(For contract value Rs. 15.00 Crores & above)

Not applicable S&T works hence deleted.

- 28.0 **BONUS FOR EARLY COMPLETION OF WORK:** In case of open tenders having advertised value more than Rs. 50 crore and original period of completion 12 months or more, when there is no reduction in original scope of work by more than 10%, and no extension granted on either railway or Contractor's account, Contractor shall be entitled for a bonus of 1% for each 30 days early completion of work. The period of less than 30 days shall be ignored while working out bonus. The maximum bonus shall be limited to 5% of original contract value. The completion date shall be reckoned as the date of issuance of completion certificate by Engineer.

(As per Clause No. 17(c) Part-II of GCC-2022, with up to date correction slip)

- 29.0 Contractor shall provide suitable manpower to Engineer in Charge or his representative at all times during currency of the contract for assisting him in giving layout of work, carrying out quality checks, taking measurements and other associated activities for effective supervision of work.

30.0 DEPLOYMENT OF QUALIFIED ENGINEERS AT WORK SITES BY THE CONTRACTOR

(As per Clause No.26A.1 of G.C.C. 2022 Part-II with up to date correction slip)

- 30.1 The Contractor shall also employ qualified Graduate Engineer(s) or equivalent, or qualified Diploma Engineer(s), as prescribed in the tender documents.

- 30.2 In case the Contractor fails to employ the Engineer, as aforesaid in Para 26A.1 of GCC, he shall be liable to pay liquidated damages at the rates, as prescribed in the tender documents. (As per Clause No.26A.2 of G.C.C. 2022 Part-II with up to date correction slip)

- 30.3 No. of qualified Engineers required to be deployed by the Contractor for various activities contained in this works contract shall be specified in the tender documents as 'Special Condition of Contract'.

(i) For tenders costing below Rs.50.00 Cr.

1) Graduate Engineer – Minimum 1 Nos.

2) Diploma Engineer – Minimum 1 Nos.

(ii) For tenders costing Rs.50.00 Cr. and above.

1) Graduate Engineer – Minimum 2 Nos.

2) Diploma Engineer – Minimum 2 Nos.

- 30.4 In case the contractor fails to employ the Qualified Engineer, as aforesaid in Para 30.1 above, he, in terms of provisions of Clause 30.2 to the Conditions of Contract, shall be liable to pay an amount of Rs. 40,000/- and Rs. 25,000/- for each month or part thereof for the default period for the provisions, as contained in Para 30.3 above respectively.

(As per Clause No. 26A.3 of G.C.C. 2022 Part-II with up to date correction slip)

31.0 **PRICE VARIATION CLAUSE (PVC)**

(As per Clause No. 46 A of GCC 2022 with up-to-date correction slip)

For this contract, the PVC shall be paid under work classification ** ** * as mentioned in table 46A-6 of GCC-2022 for calculation of price variation.

Example – ‘Earthwork in Formation’ under Civil Engineering Works

Not applicable for S&T works hence deleted.

32.0 **Communications to be in Writing:**

All notices, communications, reference and complaints made by the Railway or the Engineer or the Engineer's Representative or the Contractor inter-se concerning the works shall be in writing or email on registered e-mail IDs i.e. the e mail id provided for correspondence in the contract agreement, otherwise email id registered with IREPS and no notice, communication, reference or complaint not in writing or through e-mail, shall be recognized. (As per Clause No. 4 Part-II of GCC-2022, with up to date correction slip)

32.1 **Assignment or Subletting of Contract:**

The Contractor shall not assign or sublet the contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the special permission in writing of the Chief Engineer, save as provided below. Any breach of this condition shall entitle the Railway to rescind the contract under Clause 62 of these Conditions and also render the Contractor liable for payment to the Railway in respect of any loss or damage arising or ensuing from such cancellation; provided always that execution of the details of the work by petty Contractor under the direct and personal supervision of the Contractor or his agent shall not be deemed to be sub-letting under this clause.

In case Contractor intends to subcontract part of work, he shall submit a proposal in writing seeking permission of Chief Engineer for the same. While submitting the proposal to railway Contractor shall ensure the following:

- (a) (i) Total value of work to be assigned to sub-contractor(s) shall not be more than 50% of total contract value.
- (ii) The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, in last 5 years, ending date of submission of proposal by Contractor to Railway, costing not less than 35% value of work to be subletted, through a works contract. For fulfillment of above, Work Experience Certificate issued by a Govt. Department / Organisation shall be considered. Further Work Experience Certificate issued by a Public listed company shall be considered provided the company is having average annual turnover of Rs. 500 Crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, registered at least 5 years back from the date of submission of proposal by Contractor to Railway and work experience certificate issued by a person authorized by the Public Listed Company to issue such certificates.

Note:- For subletting of work costing upto Rs. 50 Lakh no previous work experience shall be asked for by the Railway.

In case contractor submits subcontractor's work experience certificate issued by public listed company, the contractor shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.

(iii) There is no banning of business with the Sub-contractor in force over IR.

- (b) The Contractor shall provide to the Engineer a copy of the agreement to be entered into by Contractor with subcontractor. No subcontractor shall be permitted without a formal agreement between Contractor and subcontractor. This agreement shall clearly define the scope of work to be carried out by subcontractor and the terms of payment in clear & unambiguous manner.
- (c) On receipt of approval from Chief Engineer, Contractor shall enter into a formal agreement legally enforceable in Court of Law with subcontractor and submit a copy of the same to the Engineer.
- (d) The Contractor shall intimate to the Engineer not less than 7 days in advance, the intended date of commencement of sub contractor's work.
- (e) Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of Railway, with prior intimation to Chief Engineer.
- (f) The Contractor shall indemnify railway against any claim of subcontractor.
- (g) The contractor shall release payment to the Sub-contractor(s) promptly and shall endeavour to resolve all issues amicably and speedily with the Sub-contractor(s), so that the execution of work is not affected in any manner whatsoever.
- (h) In addition to issuance of work experience certificate to Contractor, the Engineer, when, based on documents, is satisfied that subcontracted work has been carried out by subcontractor, shall issue work experience certificate to the subcontractor also for the portion of work subcontracted and successfully completed by the Sub-contractor.

***Note :-** Work Experience Certificate to the subcontractor shall be issued only when the contractor's work is complete and contractor is entitled for the issuance of Work Experience Certificate. However, in the same contract, when the Chief Engineer, based on documents, is satisfied that the subcontractor has successfully carried out subletted work; without issuance of work experience certificate to sub contractor at this stage, the Chief Engineer can, only once, consider the successfully completed subletted work for the fulfillment of eligibility for further subletting of work to the subcontractor in same contract. When the contractor's work is complete and contractor is entitled for the issuance of work experience certificate, the subcontractor shall be issued one Work Experience Certificate for the total scope of work executed by the subcontractor in the contract.*

- (i) The responsibility of successful completion of work by subcontractor shall lie with Contractor, subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract.
- (j) Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to engineer. No claim of contractor whatsoever on this account shall be entertained by the Railway and this shall be deemed as 'excepted matter' (matter not arbitrable).
- (k) The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the Railway and shall not relieve the Contractor of any responsibility under the Contract.
- (l) If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to subcontractor by a Govt. Organisation or public listed company as defined in Note for item 10.1 Part-I of GCC, the same shall be considered for the purpose of fulfillment of credentials.

As per Clause No. 7 Part-II of GCC-2022, with up to date correction slip).

(Authority : Rly Bd's letter No. 2020/CE-I/CT/3E/GCC/Policy dated 08.07.2021 and advance correction slip No. 3 dated 30.12.2021).

- 33.0 **Display Board:** The Contractor shall be responsible for displaying the details of works i.e. name of work, approximate cost, expected date of completion, name and address of the Contractor and address of Engineer on a proper steel Board of size not less than 1m x 1m.

As per Clause No. 34(5) Part-II of GGC-2022 with up to date correction slip.

34.0 **VARIATION IN EXTENT OF CONTRACT-**

- (i) Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be up to 25% of the quantity originally contracted, except in case of foundation work (in which no variation limit shall apply). However, the rates for the increased quantities shall be as per sub- para (iii) below.

- (ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever up to the limit of 25% variation in quantity of individual item of works.
- (iii) In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates
 - (a) Quantities operated in excess of 125% but up to 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender;
 - (b) Quantities operated in excess of 140% but up to 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;
 - (c) Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.
 - (d) Variation to quantities of Minor Value Item: The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original agreement value.
- (i) Quantities operated up to and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender;
- (ii) Quantities operated in excess of 100% but up to 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender;
- (iii) Variation in quantities of individual minor value item beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.
- (iv) In case of earthwork, the variation limit of 25% shall apply to the gross quantity of earthwork items and variation in the quantities of individual classifications of soil shall not be subject to this limit.
- (v) In case of foundation work, no variation limit shall apply and the work shall be carried out by the Contractor on agreed rates irrespective of any variation.
- (vi) As far as Standard Schedule of Rates (SSOR) items are concerned, the variation limit of 25% would apply to the value of SOR schedule as a whole and not on individual SSOR items. However, in case of Non Standard Schedule of Rates (SSOR) items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate). **(As per Clause No. 42 (2)(i) Part-II GCC-2022, with up to date correction slip)**

34.1 **Rates for Extra Items of Works:**

- (a) Standard Schedule of Rates (SSOR) Items: Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Bill(s) of Quantities but figures in the Standard Schedule of Rates (SSOR), shall be executed at the rates set forth in the "Standard Schedule of Rates (SSOR)" modified by the tender percentage as accepted in the contract for that chapter of Standard Schedule of Rates (SSOR).

For item(s) not covered in this sub clause, the rate shall be decided as agreed upon between the Engineer and the Contractor before the execution of such items of work as per sub clause (b).

- (b) Other Items: For any item of work to be carried out by the Contractor but not included in the accepted Bill(s) of Quantities and also not covered under sub clause (a) above, the Contractor shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted Bill(s) of Quantities does not include rate or rates for such extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the special item has come to the notice. In case the Contractor fails to attend the meeting after being notified to do so or in the event of no settlement being arrived at, the Railway shall be entitled to execute the extra works by other means and the Contractor shall have no claim for loss or damage that may result from such

Procedure.

The assessment of rates for extra item(s) shall be arrived at based on the prevailing market rates of labour, machinery & materials and by taking guidance from the following documents in order of priority:

- i. Analysis of Rates for "Unified Standard Schedule of Rates of Indian Railways (USSOR)"

- ii. Analysis of Rates for “Delhi Schedule of Rates issued by CPWD (DSR)”
- iii. Market Analysis

As per Clause No. 39. (1) Part-II GCC-2022, with up to date correction slip

35.0 **Extension of Time in Contracts**

- (A) The Contractor shall indicate the period for which the work is likely to be delayed and shall seek extension of time as may be considered necessary under clause 17A (i) or/and 17A (ii) or/ and 17A (iii) above, as soon as the cause thereof shall arise and, in any case, not less than 15 days before the expiry of the date fixed for completion of the works. The Engineer shall consider the same and shall grant and communicate such extension of time as in his opinion is reasonable having regard to the nature and period of delay and the type and quantum of work affected thereby. No other compensation shall be payable for works so carried forward to the extended period of time; the same rates, terms and conditions of contract being applicable, as if such extended period of time was originally provided in the original contract itself.

The non-submission of request for extension or submission of request within less than 15 days before the expiry of the date fixed for completion of the works, shall make him ineligible for extension under these sub clauses, subject to final decision of Engineer

(Authority : As per Clause 17 of GCC-2022, with upto date correction slip).

- (B) EXTENSION OF TIME WITH LIQUIDATED DAMAGE (LD): FOR DELAY DUE TO CONTRACTOR
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The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed not later than the date(s) as specified in the contract. If the Contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in Clause 17 and 17-A, of Part-II of GCC-2022, with up to date correction slip the Railway may, if satisfied that the works can be completed by the Contractor within reasonable short time thereafter, allow the Contractor for further extension of time as the Engineer may decide. On such extension the Railway will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the Contractor as agreed damages and not by way of penalty for each week or part of the week, a sum calculated at the rate of Liquidated damages as decided by Engineer, between 0.05 % to 0.30 % of contract value of the works for each week or part of the week.

Provided further, that if the Railway is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the Railway shall be entitled without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's Security Deposit and rescind the contract under Clause 62 of these Conditions, whether or not actual damage is caused by such default.

NOTE:

In a contract, where extension(s) of time have been allowed once under clause 17B, further request(s) for extension of time under clause 17A can also be considered under exceptional circumstances. Such extension(s) of time under clause 17A shall be without any Liquidated damages, but the Liquidated damages already recovered during extension(s) of time granted previously under clause 17B shall not be waived. However, Price variation during such extension(s) shall be dealt as applicable for extension(s) of time under clause 17B.

As per Clause No. 17(B) Part-II of GCC 2022 with up to date correction slip

36.0 **Quarterly Statement of Claims:**

The Contractor shall prepare and furnish to the Engineer once in every quarter commencing from the month following the month of issue of Letter of Acceptance, an account giving full and detailed particulars of all claims for any additional expenses to which the Contractor may consider himself entitled to and of all extra or additional works ordered by the Engineer which he has executed during the preceding quarter and no claim for payment for such work will be considered which has not been included in such particulars. **As per Clause No. 43(1) Part-II GCC-2022, with up to date correction slip**

37.0 **Settlement of disputes – Indian Railway Arbitration & Conciliation Rules**

37.1 **Conciliation of disputes:**

- (i) This clause is applicable in the tender having advertised value less than or equal to Rs 50 Crore.

- (ii) All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the "Chief Engineer" or "Divisional Railway Manager" through "Notice of Dispute" provided that no such notice shall be served later than 30 days after the date of issue of Completion Certificate by the Engineer. Chief Engineer or Divisional Railway Manager shall, within 30 days after receipt of the Contractor's "Notice of Dispute", notify the name of conciliator(s) to the Contractor.
- (iii) The Conciliator(s) shall assist the parties to reach an amicable settlement in an independent and impartial manner within the terms of contract.
- (iv) If the parties reach agreement on a settlement of the dispute, they shall draw up and sign a written settlement agreement duly signed by Engineer In-charge, Contractor and conciliator(s). When the parties sign the settlement agreement, it shall be final and binding on the parties.
- (v) The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.
- (vi) The conciliation proceedings shall be terminated as per section 76 of "The Arbitration and conciliation Act, 1996

(As per Clause No. 63 Part-II of GCC 2022, with up to date correction slip).

37.2 Matters Finally Determined by the Railway:

All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the GM and the GM shall, within 120 days after receipt of the Contractor's representation, make and notify decisions on all matters referred to by the Contractor in writing provided that matters for which provision has been made in Clauses 7(j), 8, 18, 22(5), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2), 62(1), 63(iv) and 63.2.1 of the Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, shall be deemed as 'excepted matters' (matters not arbitrable) and GCC April 2022 96 decisions of the Railway authority, thereon shall be final and binding on the Contractor; provided further that 'excepted matters' shall stand specifically excluded from the purview of the Dispute Adjudication Board (DAB) and Arbitration.

(As per Clause No. 63.1 Part-II of GCC-2022, with up to date correction slip.)

- 37.2.1 63.2 Dispute Adjudication Board (DAB):** This clause is applicable in the tender having advertised value more than Rs 50 Crore.

63.2.1 Any dispute/s if not settled with the Engineer, shall be referred to DAB.

The DAB shall consist of a panel of three Retired Railway Officers, retired not below senior administrative grade (SAG). The DAB shall be formed within 90 days of signing of Contract Agreement. For this purpose, a panel of DAB members shall be maintained in the General Manager's office. The complete panel, which shall not be less than five members, shall be sent by Chief Engineer to the Contractor to nominate one member of the DAB from the panel as Contractor's nominee within two weeks of receipt of the panel. On receipt of Contractor's nominee, the Chief Engineer shall nominate one member from the same panel as Railway nominee for the DAB. Both above nominees shall jointly select presiding member of the DAB from the same panel.

63.2.2 The appointment of DAB shall be effectuated by way of a tri-partite agreement among the Railway, Contractor and the respective DAB members. The terms of the remuneration of each member shall be as fixed by Ministry of Railways from time to time. Each party shall be responsible for paying one-half of this remuneration.

63.2.3 If one or more of the members appointed refuses to act as DAB member, or is unable or unwilling to perform his functions as DAB member for any reason whatsoever or dies or in the opinion of the Chief Engineer fails to act without undue delay, the parties shall terminate the mandate of such DAB member and thereupon new DAB member shall be appointed in the same manner, as the outgoing DAB member had been appointed.

63.2.4 The appointment of any member may be terminated by mutual agreement of both Parties, but not by the Railway or the Contractor acting alone. Unless otherwise agreed by both the Parties, the appointment of the DAB (including each member) shall expire upon expiry of this Contract Agreement.

63.2.5 Before start of DAB proceedings, each DAB member shall give the following certificate to the Railway and the Contractor:

"I have no any past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind. Further, I have no any past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality."

63.2.6 DAB proceedings shall be conducted as decided by the DAB. The DAB shall give its decision within 90 days of a Dispute referred to it by any of the Parties, duly recording the reasons before arriving at the decision. The DAB shall decide the issue within terms and conditions of the contract. This time limit shall be extendable subject to the Parties mutual agreement.

63.2.7 The DAB decision shall not be binding on both the Parties. In case any party is not satisfied by the decision of DAB, then the aggrieved party may approach Arbitral Tribunal for arbitration proceedings.

63.2.8 No dispute shall be referred to Arbitral Tribunal unless the same has been referred to DAB for adjudication. However, in case DAB is not formed due to any reason, the disputes can be directly referred to Arbitral Tribunal to adjudicate the dispute.

63.2.9 In the specific cases of any misconduct by any of the members of the DAB, the parties shall have the right to specifically bring it to the notice of the DAB such conduct, through a statement filed with necessary documents in proof of such misconduct and the DAB, after taking NOTICE of such conduct initiate the replacement of the member concerned, in the same manner the member to be replaced was appointed.

63.2.10 Once the decision is given by DAB, DAB cannot review the decision at its own or on the request of one party, unless both parties agree for review of decision by DAB.

63.2.11 In case DAB decision is not challenged by either party within 180 days of receipt of decision of DAB, the decision shall be considered as final and parties would be barred for referring the same to Arbitral Tribunal for adjudication.

63.2.12 The obligation of the Railway and the Contractor shall not be altered by reasons of issue being or under reference to DAB.

63.2.13 The DAB shall conduct the proceedings at any convenient venue which shall be decided by DAB in consultations with parties.

63.2.14 It is a term of this contract that the Parties shall not approach any Court of Law for settlement of such disputes or differences unless an attempt has first been made by the parties to settle such disputes or differences through DAB and Arbitral Tribunal.

(As per clause No. 63.2 of GCC 2022)

37.3 **DEMAND FOR ARBITRATION**

Demand for arbitration shall be govern and deal as per clause No. 64 Part-II of GCC-2022, with up to date correction slip. Subject to the provisions of the aforesaid Arbitration and Conciliation (Amendment) Act 2019 and the rules there under and any statutory modifications thereof shall apply to the arbitration proceedings under this clause

- (i) The provision of Clauses 63 and 64 of the General Conditions of contract will be applicable only for settlement of claims of disputes between the parties for values less than or equal to 20% of the original value of the contract agreement and when the claims and disputes are of value more than 20% of the original value of the contract agreement, provisions of Clauses 63 & 64 and other Clauses of the General Conditions of Contract will not be applicable and arbitration shall not be a remedy for settlement of such disputes.
- (ii) The contractor shall not be entitled to ask for reference to arbitration before the completion of the work assigned to him under this contract. The contractor shall seek reference to arbitration to settle the disputes only once within the ambit of condition (i) above.
- (iii) These special conditions (i) & (ii) above shall prevail over existing Clauses 63 and 64 of the "General Conditions of the Contract". (As per Chief Engineer's Circular No. 1 on Contract Policy circulated vide letter No. W118/0/Policy dated 11/06/2003)
- (iv) If there is any dispute arisen between the parties with respect to this agreement, then any application or suit shall be initiated only in the court with the local limits, falling under the jurisdiction of the North-Western Railway and both the parties shall be bound by this clause.

- (v) For settlement of disputes between one Government Departments and the other or between the Government Department and Public Sector undertaking the following special conditions shall be applicable. "In the event of any dispute or difference between the parties hereto, such dispute or condition shall be resolved amicably by mutual consultation through the good offices of empowered agencies of the Government. If such resolution is not possible, then the unresolved dispute or difference shall be referred to arbitration of an arbitrator to be nominated by Secretary, Department of Legal Affairs (Law Secretary) in terms of office Memorandum No.55/3/1/75/CF dated 19-12-75 issued by the Cabinet Secretariat (Department of Cabinet Affairs) as modified from time to time. The arbitration and Conciliation Amended Act 1996 (amendment 2019), or the arbitration clause contained in the General Conditions of Contract shall not be applicable to the arbitration under this clause. The award of the Arbitrator shall be binding upon parties in the dispute, provided however; any party aggrieved by such award may make further reference for setting aside or revision of the award to Law Secretary whose decision shall bind the parties finally and conclusively".
- 38.0 All the Provisions as illustrated in clause 54 to 60 of GCC 2022, related to 'Labour' shall have to be complied with, by the contractor.
- (i) Contractor is to abide by the provisions of various labour laws in terms of clause 54 and 55 of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways.gov.in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The Registration/ updation of Portal shall be done as under:
- (a) Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration in the portal within 7 days of receipt of such request.
- (b) Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LoAs issued in his favour.
- (c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LoA) / Contract Agreements on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.
- (d) After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyanportal on monthly basis.
- (e) It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour& payments made thereof after each wage period.
- (ii) While processing payment of any 'On Account bill' or 'Final bill' or release of 'Advances' or 'Performance Guarantee / Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till Month, Year." (As per Clause No. 55(c) Part-II GCC-2022, with up to date correction slip)
- 39.0 **Provisions of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996":** The tenderers, for carrying out any construction work, shall get themselves registered with the Registering Officer under Section-7 of the Building and Other Construction Workers Act, 1996 and rules made thereto by the concerned State Govt., and submit certificate of Registration issued from the Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from contractor's bills as per provisions of the Act. **(As per Clause No. 55(D) Part-II GCC-2022, with up to date correction slip).**
- 40.0 **Provision of Workmen's Compensation Act:**
- In every case in which by virtue of the provisions of Section 12 Sub-Section (1) of the Workmen's Compensation Act 1923, Railway is obliged to pay compensation to a workman directly or through petty Contractor or subcontractor employed by the Contractor in executing the work, Railway will recover from the Contractor the amount of the compensation so paid, and, without prejudice to the rights of Railway under Section 12 Subsection (2) of the said Act, Railway shall be at liberty to recover such amount or any part thereof from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India. Railway shall not be bound to contest any claim made against it under Section 12 Sub Section (1) of the said Act except on the written request of the Contractor and upon his giving to Railway full security

for all costs for which Railway might become liable in consequence of contesting such claim. (As per Clause No. 57 Part-II GCC-2022, with up to date correction slip)

41.0 Restrictions on the Employment of Retired Engineers of Railway Services Within One Year of their Retirement:

The Contractor shall not, if he is a retired Government Engineer of Gazetted rank, himself engage in or employ or associate a retired Government Engineer of Gazetted rank, who has not completed one year from the date of retirement, in connection with this contract in any manner whatsoever without obtaining prior permission of the President and if the Contractor is found to have contravened this provision it will constitute a breach of contract and administration will be entitled to terminate the contract and forfeit his Performance Guarantee as well as Security Deposit. **(As per Clause No. 59.(9) Part-II GCC-2022, with up to date correction slip)**

42.0 Accepted Programme of Work: The Contractor who has been awarded the work shall as soon as possible but not later than 30 days after the date of receipt of the acceptance letter in respect of contracts with initial completion period of two years or less or not later than 90 days for other contracts have to submit the detailed programme of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organisation (in terms of labour and supervisors), plant and machinery that he intends to utilize (from time to time) for execution of the work within stipulated date of completion. The programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the Contractor shall endeavor to fulfill this programme of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the Contractor in achieving earlier completion of item or whole of the works than indicated in the programme. In Contracts for works of New Line/Gauge Conversion/Doubling/Railway Electrification, finalized through Tenders having advertised value more than Rs.100crores, the Contractor shall submit a detailed time programme to the Engineer within 30 days after issue of LOA. The program shall include the physical and Financial Progress vis-à-vis program and forecast cash flow adopting Project Management Software such as Primavera/Sure Track/MS Project etc. The program must identify the milestones, interface requirements and program reporting elements. The Contractor shall supply, free of cost one set of authorized software to the Engineer and the soft copy of structured program for the project. This shall be updated every month. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress. Each programme shall include: The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage, Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing, each of these stages for work by each Subcontractor, if any, the sequence and timing of inspections and tests specified in the Contract, and a supporting report which includes: a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and details showing the Contractor's reasonable estimate for the number of each class of Contractor's Personnel & Equipment, required on the Site for each major stage. Unless the Engineer, within 21 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Engineer shall be entitled to rely upon the programme when planning their activities. If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer within 15 days in accordance with this Sub-Clause.

(As per Clause No. 19(3) Part-II of GCC-2022, with up to date correction slip).

43.0 Commencement of Works:

The Contractor shall commence the works within 15 days after the receipt by him of an order in writing to this effect from the Engineer and shall proceed with the same with due expedition and without delay. The Contractor shall establish a quality control mechanism before execution of the work,

As per Clause No. 19.(2) of Part-II GCC-2022, with up to date correction slip)

- (i) Contractor shall submit a QAP "Quality Assurance Plan" for the scope of work to be executed. The QAP shall be submitted within 15 days of the issue of LOA and which shall be approved by the Engineer in charge. The QAP shall extensively include the organization, duties and responsibilities, procedures, inspections, documentation and quality control mechanism including sampling and testing of Materials, test frequencies, standards, acceptance criteria, testing facilities, reporting, recording and interpretation of test results, approvals, check list for site activities, and proforma for testing and calibration in accordance with the Specifications and Standards etc.

- (ii) Prior to the commencement of any construction activity, a method statement, proposed to be adopted for executing the Work shall be submitted to Engineer in Charge. The method statement shall include details of material acceptance, execution procedures, checks at various levels, quality parameters, equipment/ machineries, quality assurance, quality control measures, traffic management, inspection checklist, documentation and remedial works etc.

44.0 **Workmanship and Testing:** The whole of the works and/or supply of materials specified and provided in the contract or that may be necessary to be done in order to form and complete any part thereof shall be executed in the best and most substantial workman like manner with materials of the best and most approved quality of their respective kinds, agreeable to the particulars contained in or implied by the specifications and as referred to in and represented by the drawings or in such other additional particulars, instructions and drawings given during the carrying on of the works and to the entire satisfaction of the Engineer according to the instructions and directions which the Contractors may from time to time receive from the Engineer. The materials may be subjected to tests by means of such machines, instruments and appliances as the Engineer may direct and wholly at the expense of the Contractor. **As per Clause No. 27.(1) of Part-II GCC-2022, with up to date correction slip)**

45.0 **Improvement of Quality in Constructions works – Regarding submission of invoices of materials, the provision of Clause 51 A of GCC is reproduced below :-**

- (i) For a contract of more than one crore of rupees, the Contractor shall, whenever required, produce or cause to be produced for examination by the Engineer any quotation, invoice, cost or other account, book of accounts, voucher, receipt, letter, memorandum, paper of writing or any copy of or extract from any such document and also furnish information and returns verified in such manner as may be required in any way relating to the execution of this contract or relevant for verifying or ascertaining cost of execution of this contract (the decision of the Engineer on the question of relevancy of any documents, information or return being final and binding in the parties). The Contractor shall similarly produce vouchers etc., if required to prove to the Engineer, that materials supplied by him, are in accordance with the specifications laid down in the contract.
- (ii) If any portion of the work in a contract of value more than one crore of rupees be carried out by a sub-contractor or any subsidiary or allied firm or company (as per Clause 7 of the Standard General Conditions of Contract), the Engineer shall have power to secure the books of such sub-contract or any subsidiary or allied firm or company, through the Contractor, and such books shall be open to his inspection.
- (iii) The obligation imposed by Sub Clause (i) & (ii) above is without prejudice to the obligations of the Contractor under any statute rules or orders binding on the Contractor.

(Authority : Rly Bd's letter No.2021/CE-I/CT/SI/1 dated 04.03.2021)

(As per Clause No. 51-A of Part-II GCC-2022, with up to date correction slip)

46.0 **Post Payment Audit:** It is an agreed term of contract that the Railway reserves to itself the right to carry out a post-payment audit and/ or technical examination of the works and the Final Bill including all supporting vouchers, abstracts etc. and to make a claim on the Contractor for the refund of any excess amount paid to him till the release of security deposit or settlement of claims, whichever is later, if as a result of such examination any over-payment to him is discovered to have been made in respect of any works done or alleged to have been done by him under the contract. **As per Clause No. 51.(2) of Part-II GCC-2022, with up to date correction slip)**

SAFETY PRECAUTIONS**1.0 MEASURES TO BE ENSURED PRIOR TO START OF WORK**

- 1.1 The contractor shall not start any work without the presence of railway supervisors at site.
- 1.2 The methodology in detail for execution of the work at site shall be approved by engineering in charge of the organization executing the work and copies of the same shall be available with contractor's supervisor, railway supervisor, SSE/P.Way/SSE (Works)/ ADEN /DEN/Sr. DEN of the section in whose jurisdiction the work falls.
- 1.3 Before permitting the execution of certain works like earthwork in formation, bridge work, supply of ballast, transportation of rails, sleepers and other material, track linking, platform/any other civil work close to the running track etc. for new/existing rail lines, gauge conversion, doubling, traffic facility work, ROB/RUB, open lines engineer-in-charge (ADEN/DEN/Sr. DEN) of the section shall ensure that he received the prior intimation/confirmation of the following aspects from Assistant Engineer/Assistant Officer In charge of the work of the executing agency i.e. Construction, S&T, Electrical, Mechanical, Rail Tel, RVNL etc.
- 1.4 Name and address of the contract assigned to execute the work.
 - (i) Name of the Contractor's supervisor
 - (ii) Name of the supervisor/assistant engineer/assistant officer of the construction organization/other organizations who are going to be site in charge/in charge of work site.
 - (iii) List of the number(s) of individual vehicle(s)/ machineries, names and license particulars of the driver(s) proposed to be used by contractor.
 - (iv) Information regarding location, duration and timings during which the vehicles/machinery are planned to be plied/worked.
 - (v) The supervisors and operators of the contractor proposed to be deployed at work site which is close to the running track, shall be imparted training by the Railway trainer at contractor own cost about the safety measures to be adopted while working in the vicinity of running track. Further competency certificate to the individual supervisors/operator shall be issued as in Annexure-'A' by a railway officer not below the rank of Assistant level officer who is in charge of site. No supervisor/operator of the contractor shall work or allowed to work in the vicinity of running track who is not possession of valid competent certificate.
 - (vi) Survey of site by supervisor of contractor and Railways to assess the precautions to be taken at site for working of trains and materials required for protection.
 - (vii) Written advice to sectional ADEN/SE (P.Way) and SE(Works) about the detailed planning of work including protection of track and safety measures proposed to be adopted.
 - (viii) A copy of the approved methodology (to be approved by engineer in charge) proposed to be adapted by the contractor with a view to ensure safety of trains passengers and workers.
 - (ix) Assurance that the methods and arrangements are actually available at site before start of the work and the contractors supervisors and the workers have clearly understood the safety aspects and requirement to be adapted/followed while executing the work.
 - (x) An assurance register has been kept at site duly signed by both Railway supervisor as well as by the contractor supervisor as a token of their having understood the safety precautions to be observed at site.
 - (xi) No work shall which is to be done near running track shall commence unless permitted by sectional ADEN/DEN/Sr. DEN
 - (xii) Supplementary site specific instructions, wherever considered necessary shall be issued by the Engineer in Charge
 - (xiii) Check list given in Annexure-V of Compendium of instructions on Safety at Work Sites 31.03.2014 shall be used to ensure that all the requisite measures have been taken before start of work.

2.0 PLYING OF ROAD VEHICLES AND WORKING OF MACHINERIES CLOSE TORUNNING TRACKS

- (i) Normally, the road vehicles shall be run or machinery shall be worked so as not to come closer than 6.0m from center line of nearest running track.

- (ii) The land strip adjacent to running tracks, where road vehicle is to ply or machinery is to work, shall be demarcated by lime in advance in consultation with the Railway's Supervisor. Wooden pegs at interval not exceeding 75mts shall be provided along the line marking as permanent marks. The road vehicles shall ply or machinery shall work so as not to infringe the line of demarcation. Demarcation of the land shall be done as per **Annexure II-A**. Compendium of instructions on Safety at Work Sites 31.03.2014.
- (iii) If a road vehicle or machinery is to work closer to 6.0m due to site conditions or requirement of work, following precautions shall be observed.
 - (a) In no case the road vehicle shall run or machinery shall work at distance less than 3.5m from center line of track.
 - (b) Demarcation of land shall be done by bright colored ribbon/nylon cord suspended on 120 cm high wooden/bamboo posts at distance of 3.5 m from center line of nearest running track. Sensors with horns shall be provided as per **Annexure II-B** of Compendium of instructions on Safety at Work Sites 31.03.2014.
 - (c) Presence of an authorized Railway's representative shall be ensured before plying of vehicle or working of machinery.
 - (d) Railway's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train. Whistle boards shall be provided wherever considered necessary.
 - (e) Lookout men shall be posted along the track at a distance of 800m from such locations who will carry red flag and whistles to warn the road vehicle/machinery users about the approaching trains. Lookout man shall be deputed as per Annexure-III-A of Compendium of instructions on Safety at Work Sites 31.03.2014.
 - (f) On curves where visibility is poor, additional lookout men shall be posted.
- (iv) **If vehicle/machinery is to be worked closer to 3.5m from running track.** Under unavoidable conditions, if road vehicles is to ply or machinery is to work closer to 3.5m due to site conditions or requirement of work, following precautions shall be observed:
 - (a) Plying of vehicles or working of machinery closer to 3.5m of running track shall be done only under protection of track. Traffic block shall be imposed wherever considered necessary. The site shall be protected as per provisions of Para No. 806 & 807 of P-Way Manual as case may be.
 - (b) Presence of a Railway's Supervisor shall be ensured at worksite.
 - (c) Railway's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train.
 - (v) **Precaution to be taken while reversing road vehicle alongside the track.** The location where vehicle will take a turn shall be demarcated duly approved by Railway's representative. The road vehicle driver shall always face the Railway track during the course of turning/reversing his vehicle. Presence of an authorized Railway representative shall be ensured at such location.
 - (vi) Road vehicle shall not be allowed to run along the track during night hours generally. In unavoidable situations, however, vehicles shall be allowed to work during night hours only in the presence of an authorized Railway's representative and where adequate lighting arrangements are made and where adequate precautions as mentioned earlier have been ensured.
 - (vii) Road vehicles/machinery/plant etc. when stabled near running tracks shall be properly secured against any possible roll off and always be manned even during off hours.

3.0 **EXECUTION OF WORKS CLOSE TO OR ON RUNNING LINES**

Any work close to or on running tracks shall be executed under the presence of a Railway's Supervisor only.

- (i) Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
 - (a) Contractor has deputed trained supervisors in required number at worksites duly certified by ADEN/In charge of the works.
 - (b) Drivers of vehicle/operators of the machines have been briefed about the safety and precautions to be taken while moving / working close to traffic.

- (c) Contractor shall ply road vehicles/working of machinery only between sunset and sunrise. In case of emergency where it is necessary to work during night hours sufficient lighting shall be ensured in the complete work area for the safety of public and passengers. Also additional staff shall be posted as necessary for night working and taking safety precautions.
- (d) The contractor shall not change the approved vehicle/machinery and driver/operator for working at site. Contractor shall not induct any new vehicle/machinery and driver/operator without prior written approval of Assistant Engineer/Assistant officer and the list of such changes with numbers of individual vehicle, name and license particulars of the driver shall be given to ADEN/DEN/Sr. DEN of the section.
- (e) Contractor shall ensure that road vehicle/machinery ply/work in a way so that these do not infringe the line of demonstration.
- (f) Lookout men with required safety equipment shall be posted where necessary.
- (g) In unusual circumstances, where operator apprehends danger to track while working truck/machinery near running track, following action shall be taken.
 - a) The contractor/supervisor/vehicle operator immediately advice the situation to railway official/officials of the organization executing the work and assist him/them in protecting the track.
 - b) Protection shall be done as done for other emergencies
- (h) Individual vehicle/machinery shall not be left unattended at site of work. If it is unavoidable and becomes necessary to stable the road vehicle/machinery at site near the running track, these shall be properly secured against any possible roll off and always be manned even during non-working hours. In addition the road vehicle / machinery should be stabled parallel to track only so that incase of failure of any securing arrangement, it may not roll towards the track.
- (i) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimensions do not infringe. Necessary checks shall be exercised by site in charge from time to time.
- (j) While inspecting the worksite check list given in Annexure VI of Compendium of instructions on Safety at Work Sites 31.03.2014 shall be used to ensure that all the requisite measures have been taken during the execution of work.
- (k) During the hours of night, lamps of temporary indicators which are not of reflective type should be lit at sun-set and kept burning till sun rise, where trains run at night.
- (ii) **Precaution to be taken to ensure safety of electrical/signal/ telephone cables while excavating near tracks.**
 - a) Particular care shall be taken to mark the locations of buried electrical/signal/telephone cables on the plans jointly with S & T/Electric supervisor and also at site so that these are not damaged during excavation.
 - b) Copy of the cable plan should be given to the contractor's authorized representative before handing over the site to start the work.
 - c) Due care shall be taken to ensure that any part of the equipment or machinery or temporary arrangement does not come close to cables while working.
 - d) Joint procedure order No. 17/2013 as mentioned in the Annexure-VII of compendium of instructions on safety at work site dated 31.03.2014 issued by PCE Office shall be followed for undertaking digging work in the vicinity of underground signaling , electrical and telecommunication cables.
- (iii) **Precaution to be taken during execution of works requiring traffic blocks.**
 - a) Any work, which infringes the moving dimensions or causes discontinuity in the track any activity making the existing track unsafe for passage of trains etc. Shall be started only after the traffic block has been imposed, railway servant in charge of the work is present at the worksite, engineering signals are exhibited at specified distance and flagmen are posted with necessary equipment to man them etc.
 - b) Before closing the work, the track shall be left with the proper track geometry so that the trains run safely and flagmen are kept in the night with safety and track protection equipment to patrol the stretch and take action to protect the track, if so warranted and inform the railway supervisors.
 - c) After completion of work the released sleeper and fittings should be properly stacked away from the track to be kept clear of moving dimensions.
 - d) Block shall be removed only when all the temporary arrangement, machineries, tools, plants etc. have been kept clear of moving dimensions.

- (iv) **Precaution to be taken during execution of works during night.** The work close to running line, generally, shall be carried out only during day hours. At locations, however, where night working is unavoidable, proper lighting arrangement should be made. The engineering indicator boards shall be lighted during night hours as per the provisions of IRPWM. The staff deputed for night working should have taken adequate rest before deploying them in night shift. We can specify duration of night shift from 20.00 hrs to 04.00 hrs. All other safety precautions applicable for day time work should be strictly observed during night working.
- (v) **Precautions to be taken to ensure safety of workers while working close to running lines**
 - a) Any work close to or on running tracks shall be executed under the presence of a Railway's supervisor only.
 - b) Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
 - i) Such works shall be planned and necessary drawings particularly with regard to infringement to moving dimensions shall be finalized duly approved by competent authority before execution of work. The work shall be executed only as per approved procedure and drawings.
 - ii) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimension do not infringe.
 - iii) Suitable speed restriction shall be imposed or Traffic block shall be ensured as required.
 - iv) The site shall be protected as per provisions of Para No. 806 & 807 of P.Way Manual as case may be.
 - v) Necessary equipment for safety of trains during emergency shall be kept ready at site.
 - c) A 'first aid kit' shall always be kept ready at site.
- (vi) **Precaution shall be taken for safety of public or passengers, while executing works at locations, used by passengers and public -** The worksite shall be suitably demarcated to keep public and passengers away from work area. Necessary signage boards such as "Work in progress. Inconvenience is regretted" etc. shall be provided at appropriate locations to warn the public/ passengers. Adequate lighting arrangement of worksite wherever required shall be done to ensure safety of public/passengers during night.
- (vii) **Precaution to be taken before stacking materials alongside the track to ensure that safety of trains is not affected.** The following precautions shall be taken before stacking the materials along the track for stacking of ballast, rails, sleepers etc.
 - a) The sites for material stacking should be selected in advance in such a manner as to ensure that no part of the material to be stacked is infringing the Standard Moving Dimensions. A plan of proposed stacking locations be made and signed jointly by an authorized Railway's representative and contractor's representative.
 - b) The selected locations shall be marked by lime in advance.
 - c) Presence of an authorized Railway's representative while unloading and stacking shall be ensured
 - d) The material shall be stacked in such a height so as to not to infringe SOD in case of accidental roll off.
- (viii) **Precaution for handling of departmental material trains-** Instructions for working of material trains are contained in Chapter XII of IRPWM which should be brought to the notice of the supervisors and other staff working on the material trains. In addition to this, following precautions should be taken:
 - (a) Issue of 'fit to run' certificate. As per Para 1207 before a material train is allowed to work, the complete rake should be examined by the Carriage and Wagon staff and a 'fit to run' certificate issued to the Guard.
 - (b) As per Para 1208 of IRPWM, a qualified Engineering official should be deputed on the train to ensure working of the material train as the Guard is not qualified to carry out such duties like Supervising of loading and unloading of materials.
 - (c) As per Para 1204 of IRPWM, the material train should not be permitted to work during the period of poor visibility due to fog, storm or any other cause except with the permission of the ADEN/DEN. Working of the material trains carrying labour should not be permitted between sunset and sunrise except in an emergency
 - (d) While unloading rail panels by the side of the running track, placement of the panels, clear of the maximum moving dimensions should be ensured.

- (e) Unloading of rail panels should be done by a team of trained staff under the active supervision of competent Supervisor/Officer.
- (f) Before unloading of rail panels, site should be prepared by way of leveling/removing extra ballast, if any, from the crib and shoulder with the objective to ensure requisite lateral and vertical clearances so as to prevent slippage of rail panels due to vibration during the passage of trains.
- (g) Reasonably adequate block should be asked and provided for unloading of the material and the work should be done preferably in day light to avoid shortcut in haste which may infringe the safety requirements.

(ix) **SAFETY ASPECTS TO BE OBSERVED WHILE WORKING IN OHE AREA**

- a) No electrical work close to running track shall be carried out without permission of railway representative.
- b) A minimum distance of 2m has to be maintained between live OHE wire and body part of worker or tools or metallic supports etc.
- c) No electric connection etc. can be tapped from OHE.
- d) Authorized OHE staff should invariably be present when the relaying work or any major work is carried out.
- e) Power block is correctly taken and 'permit to work' is issued.
- f) The structure bonds, track bonds, cross bonds, longitudinal rail bonds are not disturbed and
- g) If disconnected for the work, they are reconnected properly when the work is completed
- h) The track level is not raised beyond the permissible limit during the work.

4.0 **PROTECTION OF TRACK DURING EMERGENCY**

- (i) **Action to be taken when a contractor's supervisor or vehicle operator apprehends any unusual circumstances likely to infringe the track and endanger safe running of trains.** At any time if a contractor's supervisor or vehicle operator observes any unusual circumstances likely to infringe the track and apprehend danger to safe running of track, he shall take immediate steps to advise a Railway official of such danger and assist him in protection of track.

The track shall be protected as under. One person shall immediately plant a red flag (red lamp during night) at the spot and proceed with all haste in the direction of approaching train with a red flag in hand (red lamp during night) and plant a detonator on rail at a distance of 600m from the place of obstruction of BG track (400m for MG track) after which he shall further proceed for not less than 1200m from the place of obstruction from BG track (800m for MG track) and plant three detonators at 10m apart on rails. After this he shall display the red flag (red lamp during night) at a distance of 45m from the detonators.

Attempts shall also be made to send an advice to nearest Railway station about the incident immediately. Protection of the track shall be done as per Annexure-IV of the Compendium of instructions on Safety at Work Sites 31.03.2014

- (ii) **Action to be taken if train is seen approaching to site of danger and there is no time to protect the track as per guidelines mentioned above.** In such a case the detonators shall be planted on rails immediately at distance away from place of danger as far as possible and attention of driver of approaching train shall be invited by whistling, waving the red flag vigorously, gesticulating and shouting.
- (iii) **Action to be taken if more than one track is obstructed.**
 - a) In case of single line protection as above shall be done in both the directions from place of danger.
 - b) In case of double line or multiple lines, if other tracks are also obstructed, the protection as above shall be done for other track also.
 - c) The protection shall be done in that direction and on that track first on which train is likely to arrive first.
 - d) The Contractor's Supervisors, Operators and lookout men shall be properly explained about the direction of trains on running tracks.
- (iv) **Equipment required for protection of track.**

Minimum compliment of protection equipment i.e. 10 detonators, 4 red hand flags, 4 red hand lamps, 4 banner flags and whistles etc. shall always be kept ready at worksites for use in case of emergency. Railway will arrange to provide detonators, whereas Contractor shall arrange other equipment at his own cost.

- (v) **Arrangement of lookout men and competency required for lookout man to warn labour about approaching train.**
- Contractor will provide lookout men.
 - The lookout men shall be properly trained in warning to staff at worksite about approaching train.
 - Only those lookout men shall be provided at site who have been issued with a competency certificate by the Railway's Supervisor.
 - In case, it is felt necessary to provide lookout men by Railway, the charges for the same as fixed by Railway Administration shall be recovered from Contractor

5.0 **TRAINING TO SUPERVISORS AND OPERATORS OF CONTRACTOR**

The Supervisors and Operators of the contractor proposed to be deployed at work site, which is close to the running track, shall be imparted mandatory training by the Railway at site free of cost about the safety measures to be adopted while working in the vicinity of running track. Engineer-in charge of the work shall decide the scale, extent & adequacy of training. In case training is imparted at a recognized Railway training institute, the charges for the same, as decided by Railway, shall be recovered from contractor. A competency certificate to this effect to the individual Supervisor/Operator shall be issued as per Annexure-as given below a Railway Officer not below the rank of Assistant Officer. No Supervisor/Operator of the Contractor shall work or allowed to work in the vicinity of running track that is not in possession of valid competency certificate.

All the labour, materials, tools, plants etc. except detonators, required for ensuring safe running of trains shall be provided by Contractor at his own cost. Wherever lookout men are provided by Railway, charges at the rate of Rs. 500/- per man day shall be recovered from Contractor.

6.0 **SPECIAL CONDITIONS FOR WORKING OF ROAD CRANES**

To ensure safe working of road cranes used in works in connection with provision of ROB/RUB/Subways, following items shall invariable be ensured before putting the cranes to use :-

- No machine shall be selected to do any lifting on a specific job until its size and characteristics are considered against the weights, dimensions and lift radii of the heaviest and largest loads.
- The contractor shall ensure that a valid Certificate of Fitness is available before use of Road Cranes.
- Contractors should utilize the services of any competent person as defined in Factories Act, 1948 and approved by Chief Inspector of Factories
- The laminated photocopies of fitness certificate issued by competent persons, the operators' photo, manufacturer's load chart and competency certificate shall always be either kept in the operator cabin or pasted on the visible surface of the lifting appliances.
- All lifting appliances including all parts and gears thereof, whether fixed or movable shall be thoroughly tested and examined by a competent person once at least in every six months or after it has undergone any alterations or repairs liable to affect its strength or stability

- 7.0 Contractor shall indemnify Railways against any loss/damage to public property, travelling public, railway or his own staff due to his (contractor's) negligence. In case there is any mishap, a fact finding inquiry will be conducted by Railway. A show cause notice will be issued to the contractor, in case he is prima-facie held responsible. Contractor's reply to show cause notice will be considered by the Engineer in Charge before taking final decision. In case contractor is found responsible for the mishap, recovery from him will be affected for only tangible direct losses.

Note: For detailed instructions regarding safe working at work site, the compendium of instructions on safety at work site dated 31-03-2014 issued by PCE office shall be referred which is available in tender document.

Annexure-A

Competency Certificate

Certified that ShriSupervisor/Operator of M/s..... has been trained and examined in safety measures to be followed while working in the vicinity of running railway track for the work..... . His knowledge has been found satisfactory and he is capable of supervising the work safely.

This certificate is valid only for the work mentioned in this certificate only.

Signature and designation of the officer

ESTABLISHING SITE OFFICE AND SITE LABORATORY**1.0 SITE OFFICE:-**

The Contractor shall establish the camp office at site and keep on the works at all times efficient and competent staff to give the necessary directions to his workmen and to see that they execute their work in sound proper manner and shall employ only such supervisors, workmen & laborers in or about the execution of any of these works as are careful and skilled in the various trades. The Camp office shall be completely equipped for office working with provision of sufficient T&Ps, Office Equipment, accessories including advance version of PCs, printer, Fax, mail, phone etc. and also with facilities like sitting, drinking water etc. The area of the office and facilities required must be sufficient enough to ensure effective office working at site office itself without any difficulties and issues. Suitable site on railway land, if conveniently available, may be allowed to the contractor for setting up the site office, site laboratory, either free of charge or on such terms and conditions that may be prescribed by Railways.

2.0 SITE LABORATORY:-

The site laboratory shall be established and maintained by the contractor as for effective implementation of the QAP and approved method statements of particular activities, all the equipment shall be properly calibrated at all times. The other requirements like water tank, generator etc. shall also be maintained.

2.1 A well-qualified, competent and know ledged Laboratory supervisor shall be deputed at the site laboratory to conduct all the required tests, checks at the specified frequencies and keep proper record, documentation in soft as well as hard registers.

2.2 The equipment required for periodic quality checks and test to be conducted at laboratory and in field shall be maintained in the project. All the required machines, T&Ps, consumables, testing facilities shall be maintained in the site laboratory as required as per relevant Code, Manuals, RDSO guidelines, specification of USSOR, Contract Agreement etc. A brief list of the equipment to be kept at the laboratory are listed as under for guidance, however, the Engineer-incharge is free to maintain any additional equipment, T&Ps as deemed necessary due to site specific requirements

2.2.1 Equipment for Concrete Test in Field Laboratory

Not required for S&T works hence deleted.

2.2.2 Equipment for Earthwork Test in Field Laboratory

Not required for S&T works hence deleted.

3.0 RECORD KEEPING AND DOCUMENTATION

The following records are to be maintained by the contractor for the works as detailed below. In addition, Engineer-incharge is free to maintain any additional records as deemed necessary due to site specific requirements. These records with all pages serially numbered should have the basic information like name of work, agreement No., Agency, Location, etc. on their covers / first page.

SN	NAME OF THE RECORD	TO BE MAINTAINED FOR
1	Site order book	All works.
2	Daily progress register	
3	Hindrance register	
4	Technical register	
5	Material Passing register	
6	Cement consumption register	all cement involving works
7	Reinforcement steel accountal register	All RCC/PSC works and MCC works with temperature reinforcement
8	Reinforcement steel consumption	
9	Field tests for sand	all cement involving works
10	Field tests for C A	all concrete involving works
11	Field test for cement	all cement involving works
12	Field test for steel	all steel involving works
13	Slump test	all concrete involving works
14	Concrete cube testing register	all concrete involving works
15	Pile passing register	for buildings and structures with pile founds
16	Shuttering passing register	all concrete involving works
17	Permeability of concrete	major bridges
18	Stressing record of PSC girder	PSC girder bridges

19	Record of grouting of cable ducts	PSC girder bridges
20	Level books	Earthwork in formation/projects
21	Soil test reports for fill materials	
22	Soil test reports for blanketing materials	
23	Earthwork compaction register	
24	CBR test reports	Earthwork in formation (for 25t+ axle load only) and road works as per agreement
25	Ballast Register	Ballast supply
26	Stressing Register	PSC work
27	Cable profile Register	
28	Structural Steel Register	Steel Structure Work
29	Rivet, HSFG check register	
30	Camber register	
31	Metalizing and painting Register	
32	Inspection Note and Compliance register	All works

- 4.0 The tests required to be conducted outside the Site established laboratory shall be got done through NABL accredited lab, Central /state govt approved or owned laboratory /Test house / Government Engineering college/Govt. Polytechnic college only. The contractor shall inform regarding the name, details, and accreditation documents of the particular laboratory in writing and seek approval of the Engineer in charge of work, well in advance. Engineer in charge shall accord approval of the particular laboratory lab, after ensuring testing equipment, records keeping, competency of staff etc. of the laboratory

IMPORTANT CODAL PROVISIONS**1.0 Earthwork**

Not required for S&T works hence deleted

2.0 Cement Concrete work

Not required for S&T works hence deleted

3.0 REINFORCED CEMENTCONCRETE

Not required for S&T works hence deleted.

4.0 Bridge Works: Super Structure-Concrete

Not required for S&T works hence deleted.

5.0 Bridge Works: Superstructure-Steel

Not required for S&T works hence deleted.

6.0 Bridge Works-Miscellaneous

Not required for S&T works hence deleted.

7.0 SPECIFICATIONS FOR SUPPLYING AND STACKING STONE BALLAST

Not required for S&T works hence deleted.

8.0 Training of Personnel Railways & Contractors Engineers (Applicable for Tenders costing above Rs.20 Cr.):

To achieve good quality work, a good working knowledge and experience is required. Practical training in important field of work covering major items included in scope of work in the subject tender (such as concreting, steel fabrication, earthwork as per GE-0014 specification etc.) should be imparted by the contractor at his own cost through trainer duly approved by concerned CSTE/C to all engineers i.e. Contractor's and Railways. What constitutes the major items of the work will be decided by the Engineer in Charge in consultation with the contractor. No extra payment will be made to the contractor on this account.

ANNEXURE-I

(Para 16.1(a) of General Instructions) & clause No. 14 (i), (ii) Part-I of GCC-2022,
with up to date correction slip)

1.	Full name of the firm	
2.	Registered Head Office Address	
3.	Branch Office in India (If any)	
4.	Constitution of firm (whether Sole proprietorship firm/Partnership firm/ Limited Company/Joint Venture (JV)/ Registered Society/ Registered Trust /LLP/HUF etc.)	
5.	Bank account details of the firm i.e. Account No., name of bank and bank specific code number (MICR & IFSC) to facilitate electronic payment.	
6.	Detail of PAN of the firm	
7.	E Mail ID	

NOTES:-

1. Tender document has to be signed by such persons as may be legally competent to sign on behalf of the firm, company, association, JV, HUF, LLP, trust or society as the case may be.
2. **If tenderer is JV then the Annexure-I shall be submitted by the Joint Venture only.**
3. **If the tenderer does not submit Annexure-I, their offer will summarily be rejected.**

Date:

Signature of Tenderer/s

With Seal

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-II

Reference -Para 6.1 of ITT of GCC 2022

FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER ALONGWITH THE TENDER DOCUMENTS

I.....(*Name and designation*)**appointed as the attorney/authorized signatory of the tenderer, M/s_____ (hereinafter called the tenderer) for the purpose of the Tender documents for the work of _____ as per the tender No._____ of _____(*Railway*)**, do hereby solemnly affirm and state on the behalf of the tenderer including its constituents as under:

1. I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2. I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3. I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. **I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.**
6. **I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.**
7. I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8. I/we understand that if the contents of the certificate submitted by us are found to be forged/false or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we (*insert name of the tenderer*) **_____ and all my/our constituents understand that my/our offer shall be summarily rejected.
9. I/we also understand that if the contents of the certificate submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10. I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfill all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

SEAL AND SIGNATURE
OF THE TENDERER

Place:

Dated:

**The contents in Italics are only for guidance purpose. Details as appropriate are to be filled in suitably by tenderer.

Note:- If tenderer is JV then the Annexure-II shall be submitted by the Joint Venture bidder only,

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-II(A)**Reference Para 6.1 of ITT**

(This certificate is to be given by attorney/ authorized signatory/ each member of Partnership firm/ Joint Venture (JV)/ Hindu Undivided Family (HUF)/ Limited Liability Partnership (LLP) etc.)

I/we (Name), attorney/ authorized signatory of the
(Constituent firm/ constituent partner) and member/ partner of the (Tendering firm)
hereby solemnly affirm and state as under:-

1. I/ we certify that (constituent firm/ constituent partner) is/are not blacklisted or
debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date
of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/ LLP/ JV/ Society /
Trust.

1. I/ We have read the clause regarding restriction on procurement from a bidder of a country which
shares a land border with India and certify that I am / We are not from such a country or, if from such a country, have
been registered with the competent Authority. I/We hereby certify that I/we fulfill all the requirements in this regard
and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed).

SEAL AND SIGNATURE
OF THE CONSTITUENT FIRM/ CONSTITUENT PARTNER

Place :

Dated :

Note: This annexure shall be submitted by each (and all) member(s) of Partnership firm/ Joint Venture (JV)/ Hindu Undivided Family (HUF)/ Limited Liability Partnership (LLP) etc.

“ANNEXURE -III”

(Para 16.0(c)(i) of General Instructions) & Clause No. 10.1(a) and explanation to clause 10 – Part-I of GCC-2022

Details of works of similar nature physically completed/substantially completed in all respect as per contract agreement during last seven years, ending last day of month previous to the one in which tender is invited.

NAME OF BIDDER / JV PARTNER:-

SN	Name of work	Name of organization for whom work physically completed/ substantially completed	Type of organization for whom work executed.	Contract Agreement No. & Date	Original value of contract agreement	Final value of contract as completed /substantially completed	Payment received under this tender till ending last day of month previous to the one in which tender is invited.	Time taken for completion of work		Principal feature of the work in brief
								Date of award of contract	Date of actual completion	
1	2	3	4	5	6	7	8	9	10	11

Dated: -

Signature of Tenderer/s with seal

Note :-

(i)	Above detail should be given only for works which have been physically completed in all respects, for the similar nature work defined in clause 15.5 above.
(ii)	Certificate from Private individual for whom such works are executed shall not be considered for eligibility of tenderers.
(iii)	The tenderers should attach self-attested copy of certificate issued by the organizations for whom the work was carried out in the Performa as per Annexure-IV-A, IV-B, IV-C as applicable.
(iv)	In column 4 type of organization is to be mentioned viz. Central/ State Governments /Public Sector Undertaking/Public Funded Institutions/Municipal Bodies /Railways Siding owners / Public listed company.
(v)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10% of advertised value of the tender (for works without composite components).
(vi)	No technical and financial credentials are required for tenders having value up to Rs.50 lakhs.
(vii)	In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
(viii)	If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
(ix)	If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.(Except for substantially completed works)
(x)	In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
(xi)	For col. no 7, the value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work.
(xii)	In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the details of successfully completed works of similar nature (that defined for the Secondary Component), executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above Performa.
(xiii)	Attested copy of Completion Certificate of works mentioned in Para (c) above from (xiii) the Organizations with whom they worked as per Performa given in Annexure-IVA or IV-B or IV-C as applicable.
(xiv)	Meaning of substantially completed:- Substantially completed work means an ongoing work in which payment equal to or more than 90% of the present contract value(excluding the payment made for adjustment of Price variation (PVC) if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender.

Signature of Tenderer

Dy. CSTE/C/AII

Annexure III- A

As per clause No. 16.1(c) (ii) of General Instruction above, Clause No. 10.1b(ii), and explanation to clause 10 of Part-I of GCC-2022

FOR COMPOSITE TENDERS

(A tender having combination of two or more different nature works i.e formation work , bridge work , building work , s & t work, OHE work etc .)

NAME OF BIDDER/JV PARTNER:-

SN	Name of work in which component work is executed.	Name of organization for whom work physically completed/ substantially completed.	Type of organization for whom work executed.	Contract Agreement No. & Date	Original value of contract agreement	Final value of contract as completed /substantially completed	Payment received under these components till ending last day of month previous to the one in which tender is invited.	Time taken for completion of work		Principal feature of the work in brief
								Date of award of contract	Date of actual completion	
1	2	3	4	5	6	7	8	9	10	11
Component A										
Component B										
Component C										

Dated:-

Signature of Tenderer/s with Seal.

Note :-

(i)	Component wise details mentioned above for the similar nature work defined for the various components in clause 15.5 above, should be supported by completion certificate submitted under Annexure- IV-A, IV-B, IV-C. In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
(ii)	No technical and financial credentials are required for tenders having value up to Rs. 50 lakhs
(iii)	In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
(iv)	If a work is physically completed/ substantially completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
(v)	If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials. (Except for substantially completed works)
(vi)	In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
(vii)	For col. 5 - The value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work.
(viii)	In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the details of successfully completed works of similar nature (that defined for the Secondary Component), executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above Performa.
(ix)	Attested copy of Completion Certificate of works mentioned in Para (c) above from the Organizations with whom they worked as per Performa given in Annexure-IV-A or IV-B or IV-C as applicable.
	Note : Components to be filled as per STD clause 15.5 (to be defined by tenderer)

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-IV(A)

(Para 16.1 (d) and Note to Para-15 Note No.(ii)(b) of General Instructions)
 Clause No. 11(i), and explanation to clause 10 of Part-I of GCC-2022

COMPLETION CERTIFICATE

Name of Organization

Postal address,.....

Phone No..... Email ID..... Fax No.....Letter

No..... Date:-.....

1.	Name of work	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor.	
6.	Original value of contract agreement.	
7.	Completion Cost of Work	
7.1	In case final payments have been made- Contract Cost in last approved variation statement plus PVC amount paid	
7.2	In case final bill is pending -	
(i)	The contract cost in last approved variation statement plus PVC amount paid	
(ii)	Cumulative amount paid up to last on-account bill including PVC amount and statutory deductions	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes / No)
10.(i)	If yes, then actual date of physical completion	
(ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of inviting of present tender along with financial year –wise break-up	
12.	In case of composite work: Payment made for relevant distinct component of the work, out of total payment made under Sr. No. 7 above.	
12.1	In case final payments for the component have been made- Cost of component in contract in last approved variation statement plus PVC amount paid	
12.2	In case final bill is pending -	
(i)	The Cost of component in contract in last approved variation statement plus PVC amount paid	
(ii)	Cumulative amount paid for the component up to last on account bill including PVC amount and statutory deductions	
13.	Performance of Contractor (Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement.
 Performance of the contractor while executing the work had been satisfactory.

Date-.....

(Signature)

Name and Designation of officer

Mobile No. of officer Seal of officer

Signature of Tenderer

Dy. CSTE/C/AII

Note:-

(i)	Submission of false certificates by tenderer shall lead to, forfeiture of EMD (if applicable), and other action including penal action (Annexure-II).
(ii)	Copy of certificate duly self-attested shall be submitted along with tender document
(iii)	Payment made as indicated in above certificate (At Sr. No. 11/ Sr. No. 12) will be considered as value of completed work for the purpose of eligibility under special technical criteria.
(iv)	Above format is for guidance only. Any certificate containing information asked for shall be considered.
(v)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
(vi)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
(vii)	Only those works will be treated as composite works which consist of more than one distinct component of work such as Civil Engg. Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender documents.
(viii)	No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.
(ix)	In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
(x)	If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials
(xi)	If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.(Except for substantially completed works)
(xii)	In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
(xiii)	For Col. 7 & 12 -The value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work/ component.
(xiv)	In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above performa.
(xv)	For bidders submitting credentials of work which is composite in nature, shall mandatorily bifurcate the components for verifying their technical eligibility in accordance to similar nature defined in the tender document.

ANNEXURE-IV-(B)

(Para 16.1(d) and Note to Para 15 Note No. (iii) (b) of General Instructions) & Clause No. 11 (i), and explanation to clause 10 of Part-I of GCC-2022

SUBSTANTIALLY COMPLETION CERTIFICATE

(Declaration below the table by certificate issuing authority is mandatory)

Name of Organization

Postal address,.....

Phone No..... Email ID..... Fax No.....Letter No..... Date:-.....

1.	Name of work	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor.	
6.	Original value of contract agreement.	
	Value of last sanctioned	
7.	(i) Cost of work substantially Completed – (Note–Issuer of this certificate shall certify that the work has been completed 90 % of its intended scope). (Mandatory)	
7.1	Payments done so far - (i) Contractual	
	(ii) PVC	
8.	Date of award of contract-	
9.	Has the work physically been completed 90% or more in all respect as per contract agreement?	(Yes / No)
10. (ii)	Whether extension to DOC given with penalty or without penalty	(Yes/No)
11.	Total payment made in above contract till the date of inviting of present tender along with financial year –wise break-up	
12.	In case of composite work Payment made for relevant distinct component of the work, out of total payment made under Sr. No. 7 above.	
12.1	Payments for the component have been made- Cost of component in contract in last approved variation statement plus PVC amount paid	
13.	Performance of Contractor (Satisfactory/Unsatisfactory)	

***I hereby certify that above mentioned work has been substantially completed (90% or more than contract including updated cost) in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.**

Date-.....

(Signature)

Name and Designation of officer
Mobile No. of officer Seal of officer

Signature of Tenderer

Dy. CSTE/C/AII

Note:-

(i)	Submission of false certificates by tenderer shall lead to, forfeiture of Bid security (if applicable), and other action including penal action (Annexure-II).
(ii)	Copy of certificate duly self-attested shall be submitted along with tender document
(iii)	Payment made as indicated in above certificate (At Sr. No. 11/ Sr. No. 12) will be considered as value of completed work for the purpose of eligibility under special technical criteria.
(iv)	Above format is for guidance only. Substantially completed work certificate containing information asked for shall be considered.
(v)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
(vi)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
(vii)	Only those works will be treated as composite works which consist of more than one distinct component of work such as Civil Engg. Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct component in the tender documents.
(viii)	No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.
(ix)	In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
(xi)	If a part or a component of work is completed but the 90% intended scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.
(xii)	In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
(xiii)	For Col. 7 & 12 -The value of updated bill including PVC amount-if paid, shall be considered as the substantial completion cost of work/ component.
(xiv)	In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of substantially Completed work Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above Performa.
(xv)	The credential certificate for substantially completed work should have been issued not prior to 60 days of date of invitation of present tender.
(xvi)	For bidders submitting credentials of work which is composite in nature, shall mandatorily bifurcate the components for verifying their technical eligibility in accordance to similar nature defined in the tender document.

ANNEXURE-IV-(C)

(Para 16.1 (d) and Note to Para 15 Note No.(iii)(c) of General Instructions)

Clause No. 11(i), and explanation to clause 10 of Part- I of GCC 2022

COMPLETION CERTIFICATE

(If the work is awarded by Public Listed Company)

Name of Concessionaire :-

Address :-

Contract details i.e. Phone No.:-Fax-----e-mail Id.....

Letter No..... Date:-

1.1	Name of work /Project	
1.2	Name and Address of the Public Listed Company	
1.3	Number as incorporated/ registered in the National stock exchange or Bombay stock exchange	
1.4	Date of getting listed in NSE/BSE (document to be attached as per note (vi) below).	
1.5	Average Annual turnover of the public listed company in last three financial years excluding current financial year. (details to be attached as per proforma in annexure VIII as per note (vii) below)	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company /Joint Venture firm/Registered Society /registered Trust etc.)	
5.(i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7.	Completion Cost of Work	
7.1	In case final payments have been made- Contract Cost in last approved variation statement plus PVC amount paid	
7.2	In case final bill is pending -	
(i)	The contract cost in last approved variation statement plus PVC amount paid	
(ii)	Cumulative amount paid up to last on-account bill including PVC amount and statutory deductions	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes/No)
10.(i)	If yes, then actual date of physical completion.	
(ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of opening of present tender along with financial year –wise break-up	
12.	In case of composite work: Payment made for relevant distinct component of the work, out of total payment made under Sr. No. 7 above.	
12.1	In case final payments for the component have been made – Cost of component in contract in last approved variation statement plus PVC amount paid.	
12.2	In case final bill is pending -	
(i)	The Cost of component in contract in last approved variation statement plus PVC amount paid	
(ii)	Cumulative amount paid for the component up to last on account bill including PVC amount and statutory deductions	
13.	Performance of Contractor (Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.

Signature & Name of Authorized Person
of the Concessionaire with Seal and
Mobile No. of Issuing Person

Signature of Tenderer

Dy. CSTE/C/AII

Note:-

Following documents regarding the Public listed company are required to be submitted along with the certificate **(Mandatory)**

1.	Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII.
2.	The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested.
3.	The copy of the document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of closing of tender), duly self-attested.
4.	The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested.
5.	The relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.
(i)	The certificate shall not be taken into consideration if any of the above conditions, prerequisites is not fulfilled or required supporting mandatory documents are found deficient.
(ii)	Submission of false certificates by tenderer shall lead to, forfeiture of Bid security (if submitted as per para 5.1.2 above) and other action including penal action (Annexure-II).
(iii)	Above format is for guidance only. Any certificate containing required information asked for shall be considered
(iv)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
(v)	In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
(vi)	Only those works will be treated as composite works which consist of more than one distinct component such as Civil Engg, Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender document
(vii)	In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
(viii)	If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
(ix)	If a part or a component of work is completed but the overall scope of contract is not completed, this work shall not be considered for fulfillment of technical credentials even if the cost of part completed work/component is more than required for fulfillment of credentials.(Except for substantially completed works)
(x)	In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost of that work including PVC amount if any shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
(xi)	For Col 7 & 12 -The value of final bill including PVC amount-if paid, or otherwise in case final bill is pending the contract cost in last approved variation statement plus PVC amount paid or cumulative amount paid up to last on-account bill including PVC amount and statutory deductions whichever is less, shall be considered as the completion cost of work/ component.
(xii)	In case, the Secondary Component(s) has/ have been defined in clause 15.5 above, the Attested copy of Completion Certificate of works executed by tenderer himself / the subcontractor (fully by any one or jointly i.e. partly by tenderer and remaining through subcontractor) during last five years, shall also be submitted in above performa.
(xiii)	For bidders submitting credentials of work which is composite in nature , shall mandatorily bifurcate the components for verifying their technical eligibility in accordance to similar nature defined in the tender document .

ANNEXURE-V

(Para 16.1 (e) of General Instructions) (Clause No.10.3 and explanation to clause 10 of Part-I of GCC-2022, with up to date correction slip)

**LIST OF AWARDED WORKS UNDER EXECUTION AND/OR WORK AWARDED BUT NOT YET
STARTED TILL DATE OF INVITING OF TENDER**

(Mandatory for tenders more than Rs. 20 Cr value wherein eligibility criteria includes Bid Capacity also, to evaluate Bid Capacity of tenderer)

NAME OF BIDDER/JV PARTNER:-

Sr. No	Name & place of work	Organization for whom work is being carried out	Date of award of contract, Contract Agreement No. & Date	Original cost of work /Revised Cost (up to latest corrigendum)	Date of Completion (Original/ Extended)	Payment Received Till Date of opening of present tender	Balance amount of the work to be executed	Balance period of work to be executed	B' Value of work to be done in 'N' years (See note below)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8) (5)– (7)	(9)	(10)
1									
2									
								Total	

Date :-

(Signature of Chartered Accountant)

Name of CA: _____

Registration No: _____

UDIN Number _____

(Seal)

Signature of Tenderer/s with seal

NOTE to Annexure - V :-

(a)	This statement should be submitted duly verified by Chartered Accountant and it shall bear UDIN number also.
(b)	In case of no works in hand, a 'NIL' statement should be furnished duly verified by chartered Accountant.
(c)	In case of JV firm, the details of works with each member of JV is required to be submitted duly verified by Chartered Accountant.
(d)	In case, the tenderer/s failed to submit the above statement along with offer or if the submitted statement is without verification of chartered accountant or without UDIN number, their/his offer shall be considered as incomplete and will be rejected summarily.
(e)	N for column 10 –Number of years prescribed for completion of work for which bids has been invited.
(f)	'B' is the Value of existing commitments and balance amount of ongoing works with the tenderer as per the prescribed Performa of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender .
(g)	For N equal or more than column (9) , Value of 'B' will be same as column (8)
(h)	For contracts not having any defined part financial /physical completion stages /milestones, and $N < \text{column (9)}$ then the value of 'B' will be as per formula $B = (8) * N / (9)$
(i)	In case part financial / physical completion stages / milestone is defined in the contract's value of 'B' shall be calculated accordingly.
(j)	No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-VI**(Para 16.1 (g) of General Instructions)****Clause No.11(iii) Annex.I of Part-I of GCC-2022 , with up to date correction slip.****LIST OF PLANTS & MACHINERY AVAILABLE ON HAND AND PROPOSED TO BE INDUCTED (OWN AND HIRED TO BE GIVEN SEPARATELY) FOR SUBJECT WORK**

Sr. No	Particulars of Plants/Machinery	No. of Unit	Kind and make	Capacity	Age & Conditions	Owned by firm	Proposed to be purchased	
							Date of placing order	Likely date of receipt
1								
2								
3								
4								
5								
6								
7								

Note:-

- (a) Indicate clearly, whether (i) Owned by firm, or (ii) To be purchased by firm giving date of placing order and likely date of receipt.
- (b) Optimum Plants and Machineries required to be deployed during execution of work.
- (i) Earthwork in formation of New Line / Doubling/ Gauge Conversion Project: Poclain, JCB, Vibratory Roller, Grader, Dumpers, Tractors, Water tank etc.
- (ii) Concreting work for bridge work: Concrete pump, Transit mixer as per requirement, Batching plant of suitable capacity, JCB, Needle vibrator 60/40mm etc.

Signature of Tenderer/s**Dated :.....**

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-VII

**(Para 16.1 (h) of General Instructions) Clause No.11 (iii) Annexure-I of Part-I of GCC-2022,
with up to date correction slip.**

**LIST OF PERSONNEL ORGANIZATION AVAILABLE ON HAND
AND PROPOSED TO BE ENGAGED FOR THE SUBJECT WORK**

Sr. No.	Name & Designation	Qualification	Professional experience	Remarks
1.	2.	3.	4.	5.
1				
2				
3				
4				
5				
6				
7				
8				
9				

Signature of Tenderer/s

Dated :-.....

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-VIII

Reference -Para 10.2 & 17.15.2 of Tender Form (Second Sheet) of Annexure I of ITT of GCC 2022

Each Bidder or each member of a JV must fill in this form separately:**NAME OF BIDDER/JV PARTNER:**

Annual Contractual Turnover Data for the Previous 3/4 Years (Contractual Payment only)			
Year	Amount Currency	Exchange Rate	Indian National Rupees Equivalent
Average Annual Contractual Turnover for last 3 years			

1. The average annual contractual turnover shall be calculated as an average of “total contractual payments” in the previous three financial years. However, in case balance sheet of the previous year is yet to be prepared/audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.
2. The information supplied shall be substantiated by data in the audited balance sheets and profit and loss accounts for the relevant years in respect of the bidder or all members constituting the bidder.
3. Contents of this form should be certified by a Chartered Accountant duly supported by Audited Balance Sheet duly certified by the Chartered Accountant.
4. Any certificate issued by Statutory auditor/ CA to include Unique Document Identification Number (UDIN).

SEAL AND SIGNATURE OF THE BIDDER

Certified that all figures and facts submitted in this form have been furnished after full consideration of all observations/notes in Auditor's reports. _____

(Signature of Chartered Accountant)**Name of CA:** _____**Registration No:** _____**UDIN Number** _____***(Seal)***

ANNEXURE-IX

(Para 9.0 (ii) of General Instructions)

AFFIDAVIT

(For sole proprietorship firm / Sole proprietorship firm participating as member of JV)

I..... (Indicate Name of Sole prop) S/o Age.....Sole Proprietor (Full address of Sole prop) of M/s..... (Indicate Name of Proprietary concern) situated at (Full address of Sole prop firm) do hereby solemnly affirm & declare as under:-

1. The firm working in the name & style of M/saddress.....(Indicate name – sole Proprietary firm) is a Sole proprietary concern, and

2. I.....(Name) am , who is signing this affidavit , is Sole proprietor of this concern.

Deponent

Signature and Seal

VERIFICATION

I, the above named deponent do hereby solemnly affirm & verify that the contents of my above affidavit are true & correct. Nothing has been concealed and no part of it is false.

Deponent

Signature and Seal

Place:-

Date:-

Note: - The stamp duty shall be governed by the provision of the Law relating to stamp in Force in that State at the time when such AFFIDAVIT is being executed. Affidavit shall be affirmed before the Notary Public.

ANNEXURE-X

(Para 16.2.6 (a) of General Instructions) Clause No. 17.6 of Annex.I Part-I of GCC-2022, with up to date correction slip)

MEMORANDUM OF UNDERSTANDING FOR JV

(The Memorandum of Understanding shall be submitted in following format on the non-judicial stamp of Rs.500/- duly notarized by Notary Public)

NOW THIS Memorandum of Understanding is executed at (Name of Place) on this date (DD/MM/YY) between M/s (Name of first constituent and address) as the first party represented by Shri and M/s..... (Name of 2nd constituent and address) represented by Shri As the second party and so on 3rd, 4th.&5th subsequent parties. (The expression and words of first and second and other shall mean and include their heir's successors, assigns, nominees, execution, administrators and legal representatives respectively).

WHEREAS all the parties are engaged mainly in the business of execution of Civil Engineering and general contracts for various Government Departments and Organizations.

AND WHEREAS the parties herein above mentioned are desirous of entering into a joint venture for carrying out Civil Engineering and/or contract works in connection with Tender No. (Name of work) "As mutually decided between members of Joint Venture Agreement.

1. That we M/s..... (JV firm) on behalf of all members of this joint venture agreement agreed that M/s..... will be "Lead Partner" of this Joint Venture.
2. That under this MOU, the work will be done jointly by M/s The first party and M/s the second and so onin the name and style of (Name)(Joint venture firm).
3. That we JV firm M/s on behalf of all the members of JV firm shall be legally liable, severally and jointly responsible/ liable for the satisfactory/ successful execution/ completion of the works including maintenance period in all respects and in accordance with terms and conditions of the contract.
4. That we M/s JV firm On behalf of all the members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (Railways) for execution of the project in accordance with General and Special Conditions of the Contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof.
5. M/s(Name of Lead Firm) of JV firm shall be the lead member of the JV firm who shall have a majority% share of interest in the JV firm. The other (One/Two) members shall have following share:
M/s (Name of Second Firm) have % and M/s (Name of Third Firm if any) have% share of interest in the JV Firm.
6. That this JV shall be valid during the entire currency of the contract including the period of extension, if any, and the maintenance period after the work is completed.
7. That we all the Joint Venture members authorize Mr./Ms.....one of the members on behalf of the JV firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/ correspondence with respect to the contract would be sent to this authorized member(Lead member) (Address) of the JV firm. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
8. That no member of the JV shall have the right to assign or transfer the interest right or Liability in the contract without the written consent of the other members and that of the employer (Railways) in respect of the said tender/contract.
9. That we all the members of the JV certify that we have not been black listed or debarred by Railways or any other Ministry/Department /PSU (Public Sector Undertaking) of the Govt. of India/ State Govt. from participation in tenders/contract in the past either in our individual capacity or as a member of the JV firm or partnership firm in which they were members/partners.. I/ We are aware that concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.

Signature of Tenderer

Dy. CSTE/C/AII

10. That this Joint Venture MOU shall in all respect be governed by and interpreted in accordance with Indian Laws.

Now the parties have joined hands to form this MOU on this date (DD/MM/YY) with reference to and in confirmation of their discussions and understanding brought on record on date..... (DD /MM /YY).

In witness thereof all/both the above named parties have set their respective hands on this MOU on the day, month and year first above mentioned, in the presence of the following witnesses:-

1. First party (authorized signatory)
2. Second party (authorized signatory)
3. Third party (if any) (authorized signatory)

With Seal of parties Witnesses with name & full address:- 1.....

2.....

Date.....

Place.....

NOTE: - Should MOU be in more than one separate page, each page shall be Signed by the authorized signatory.

In para no 7 of the Authorised member of the JV shall be as per clause no.18.13 of tender document (Clause No.17.12 of GCC2022)

Annexure-XI

(Para 16.2.6.2(b) of General Instructions) Clause No. 17.14.1 of Annex. I Part-I GCC 2022)

“LETTER OF CONSENT”

(To be submitted by Partnership Firm participating as member of JV)

We the following partners of M/s (Indicate name of firm)
 1).....(2).....(3).....(4).....(5).....
(6).....having its office athereby
 give our consent on behalf of M/s..... (Indicate name of firm) in favour of Mr
 (Indicate name of Partner), whose specimen signature are appended below, for
 entering into Joint Venture Agreement with M/s..... (Indicate name of other firm's)
 having office at in connection with T. No
 Name of work to sign & execute the MOU, JV agreement and all
 other required documents pertaining to above said tender on behalf of firm.

We have read the contents of this letter of consent & accept the same and we hereby agree to and ratify
 all acts, deeds & things of them or any documents executed by the said partner in the scope of this letter of consent on
 behalf of firm.

This letter of consent is made at on

Name & Signature of Partner/s (Signature of Sh)

DATE.....

1.....
 2.....
 3.....
 4.....
 5.....
 6.....

Place:-.....

Seal of the Firm

Note:- The stamp duty of Rs. 500/- or shall be governed by the provision of the Law relating to stamp in force in
 that State at the time.

Annexure-XII

(Para 10.2 of General Instructions) & clause No. 17.15 and second sheet of Annex I Part-I of GCC-2022, with up to date correction slip

POWER OF ATTORNEY

(To be submitted by Private/Limited Companies, Society/Trust, Sole Proprietor or HUF participating as member of JV)

BE IT KNOWN to all that I (Indicate name of Director/Sole Prop.) at the Company/Proprietary firm/HUF/Society/Trust (Indicate Name of Company / Sole Proprietary firm/HUF/Society/Trust) having its office at do hereby for and on behalf of the said Company/Proprietary firm/HUF/Society/trust appoint Sh.....S/o Shriage..... (Indicate Name of Nominee with full address) of the Company/Prop. Firm/HUF/Society/trust

as our Attorney, whose specimen signature are appended below to execute the MOU/ JV Agreement & all other required documents with M/s (Indicate Name of other Co. /Prop. firm)..... Situated at in connection with the following tender invited by North Western Railway:-
“T.No.....Name of work.....”

We/ I have read the content of this Special Power of Attorney & accept the same, and we/ I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

In witness where of I..... (Indicate name of Director/ Sole Prop/ Karta.) Of M/s..... (Indicate name of Co. / Prop. Firm/HUF) the above named Director / Proprietor has executed this Power of Attorney.

For M/s.....

(Sign. of Shri.....)

(Sign & Seal)

Place.....

Date:-.....

The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

(For sole proprietor firm/HUF as member of JV- Not required if MOU/JV agreement is signed by the proprietor of the sole proprietor firm/ karta of HUF himself)

Annexure-XIII

(Para 16.2.2 (b) of General Instructions) & clause No.18.10(ii), 15 Annex I Part-I of GCC-2022, with up to date correction slip.

POWER OF ATTORNEY

(For Partnership Firms only)

BE IT KNOWN to all that we (1) (2).....
 (3).....(4).....(5)..... all the partners of the
 firm..... having its registered office at do hereby, for and on behalf
 of the said firm appoint Shri..... (Name& designation) Special Attorney of the said firm and
 authorize the said Shri..... (name), whose specimen signature are appended below, to do all or
 any of the following acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the
 tender No (Name of work) invited by North
 Western Railway.

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm.
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We/ I have read the content of this Special Power of Attorney & accept the same and We/I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

Executants Partner

(Signature of Sri.....)

(Name & signature)

DATE:-

1.....

2.....

3.....

Place :-.....

4.....

Seal of Firm

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

Signature of Tenderer

Dy. CSTE/C/AII

Annexure-XIV

(Para 16.2.1 (b) of General Instructions) & clause No. 15 Annex- I
Part-I of GCC-2022, with up to date correction slip

POWER OF ATTORNEY

(For Sole Proprietor Firm only)

BE IT KNOWN to all that I Sole Proprietor of the firm having its registered office at do hereby, for and on behalf of the said firm appoint Shri..... (Name & designation with full address) Special Attorney of the said firm and authorize the said Shri..... (name) whose specimen signature are appended below, to do all or any of the following acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender No..... (Name of work)..... invited by North Western Railway.

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to Arbitration Tribunal.

I have read the content of this Special Power of Attorney & accept the same and I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Sign. with name of Power Attorney Holder)

(Name & sign. of Sole Proprietor)

Dated

Place

(Seal of Firm)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. (Not required if tender is uploaded by Proprietor himself)

Annexure-XV

(Para 16.2.3 (c) of General Instructions) & clause No. 14(e) (ii) and
15 of Part-I of GCC-2022, with up to date correction slip.

POWER OF ATTORNEY
(For Private/Limited companies only)

BE IT KNOWN To all that (Name of firm) having its registered office at do hereby, for and on behalf of the firm appoint Shri..... (Name & designation) Special Attorney of the said firm and authorize the said Shri..... (name) whose specimen signatures are appended below, to do all or any of the following acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender No..... (Name of work)..... invited by North Western Railway

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of Company
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of Company.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We have read the content of this Special Power of Attorney & accept the same and we hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Signature of Shri)
Authorized signatory of the firm

Dated.....

Place

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

ANNEXURE-XVI**MODEL FORM OF BANK GUARANTEE BOND FOR PG**

To,

FA & CAO/CONSTRUCTION,
North Western Railway, Jaipur (Raj.)

1. In consideration of the President of India acting through (indicate designation of concerned CE/Dy. CE) (hereinafter called "the Government") having agreed to exempt – (Name & address) ----- (hereinafter called "the said Contractor(s)" from the demand, under the terms and conditions of an Agreement dated ----- made between ----- and ----- for ----- (hereinafter called "the said Agreement"), of Performance Guarantee for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a bank Guarantee for Rs.----- (Rupees ----- only) we, ----- (hereinafter referred to as "the Bank" at the request of ----- (contractor(s) do hereby undertake to pay to the Government an amount not exceeding Rs. ----- against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We ----- (indicate the name of the bank) and our local branch at Jaipur i.e. (name, address and branch code of local branch at Jaipur) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the terms of conditions contained in the said Agreement or by reason of the contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. -----
3. We undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier (s) in any suite or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.
4. We..... (Indicate the name of bank) and our local branch at Jaipur i.e. (name, address and branch code of local branch at Jaipur) further agreed with the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance/of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till ----- (office/Department) Ministry of----- certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on in writing on or before the ----- we shall be discharged from all liability under this guarantee thereafter.
5. We..... (Indicate the name of bank) and our local branch at Jaipur i.e. (name, address and branch code of local branch at Jaipur) further agree with the government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to post opens for any time or from time to time any of the powers exercisable by the Government against the said, Contractor(s) and to further or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the Government or any indulgence by the Government to the said Contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the bank or the contractor(s)/Supplier(s).
7. We ----- (indicate the name of bank) and our local branch at Jaipur i.e. (Name, address and branch code of local branch at Jaipur) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing.

Dated the..... day of 2023

For (indicate the name of bank) and our local branch at Jaipur i.e.
(Name, address and branch code of local branch at Jaipur).

ANNEXURE-XVII

(Para 16.2.6.3 (b) of General Instructions & Clause No. 17.14.3 (i) of Annex.I Part-I of GCC-2022, with up to date correction slip)

**SPECIMEN BOARD'S RESOLUTION OF A PRIVATE/LIMITED COMPANY
FORENTERING INTO JV WITH OTHER ENTITIES**

Extract from the minutes of meeting of Board of Directors of the company held on(Date) at the office of the company situated at (Address of the company).

RESOLVED THAT (Name of the company) have decided to participate for the said tender for the work of (Name of the work) in joint venture with M/s..... (Name of the other Firm/Firms or company/companies with addresses) in name and style of the JV firm(Name of the Joint Venture firm).

FURTHER RESOLVED THAT Shri (Name and designation of authorized person of the company) is hereby authorized to execute & sign all necessary documents for submission of tender documents, JV Agreement and any documents in connection with present tender on behalf of company etc. For the above mentioned work on behalf of the company.

Signed by Managing Director/

Director/ Company Secretary Of the Company

Note:-

1. Stipulations in the above specimen Board's Resolution are for guidance only. Companies can incorporate other stipulation /stipulations relevant with the tender and formation of JV, if required.
2. The above Annexure should be executed on the Letter Head of the company.

Annexure-XVIII

Clause No. 16.2.6.2(c) of General Instructions & Clause No. 17.14.1 (c) and 15 of Annex.I Part-I of GCC-2022, with up to date correction slip.

POWER OF ATTORNEY

(For Partnership Firms participating as a member of JV only)

We the following partners of M/s (Indicate name of firm)
 (1).....(2).....
 (3).....(4).....
 (5).....(6).....having its office at
hereby give our consent on behalf of M/s.....(Indicate name of firm)
 in favour of Mr (Indicate name of Partner), whose specimen signature are
 appended below, for entering into Joint Venture Agreement with M/s.....
 (Indicate name of other firm's) having office at in
 connection with T. No Name of work to sign & execute the
 MOU, JV agreement and all other required documents pertaining to above said tender.

We have read the content of this Special Power of Attorney & accept the same and we hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

Executants Partner

(Signature of Sri.....)

(Name & signature)

Date

1.....

Place

2.....

3.....

4.....

(Seal of Firm)

(Seal of Firm)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

ANNEXURE-XIX

Clause No. 16.1(f) of General Instructions & Clause No. 10.3 Annex.I Part-I of GCC-2022, with up to date correction slip

It is to certify that construction works executed and payment received through construction works of M/s..... (Name of firm) in any one of the previous three financial years or the current financial year (up to date of inviting tender), as extracted from, Balance sheet/ certificate issued by the employer/ client, Form 16 , Form 26AS etc. are as under :-

Sr. No	Financial year	Work executed And Payment received through construction works.
1.	Current year (Say A)	
2.	A-1	
3.	A-2	
4.	A-3	

Yours sincerely,

Date: ...

(Name & Sign. Of Chartered Accountant

Registration No:-

E-Mail:-

UDIN number-

Note:-

(a) In case of JV firm details of construction works executed by each member of JV is required to be submitted

b. In case, the tenderer/s failed to submit the above statement duly verified from Chartered accountant (for tenders valuing more than 20 Cr) along with offer, their/his offer shall be considered as incomplete and will be rejected summarily.

c. Any certificate issued by statutory Auditor/CA to include Unique Document identification Number (UDIN)

Annexure –XX

Clause No. 16.2.4(d) of General Instructions & Clause No. 14(f)(ii) and 15 of Annex.-I
Part-I of GCC-2022, with up to date correction slip

POWER-OF-ATTORNEY

(For LLP Firm incorporated under LLP Act)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/s (Name of LLP & LLPIN number) is a LLP Firm registered under the LLP Act, 2008, and having its registered office at (hereinafter called the 'LLP').

AND WHEREAS by its resolution No passed in the meeting held on..... of the Partners of the LLP (LLP name) have decided to participate in the tender No. invited by Northwestern Railway for the work namely “.....”

I..... (name and designation) the authorized representative of M/s (name of LLP) duly authorized in this behalf by aforesaid resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms..... (designation)..... (address)..... & Mr./ Ms./Mr./Ms..... (designation)..... (address)..... who is/are presently holding the above mentioned position in the LLP as our true and lawful attorney (hereinafter referred to as “Attorney”) of the LLP to jointly or severally exercise all or any of the following powers for and on behalf of M/s (name of LLP & LLPIN number) in respect of the aforesaid tender invited by the North-Western Railway .

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of Firm.
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of Firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

The LLP agrees and undertakes that in the event of any change in the constitution of the LLP, the rights and obligations of the LLP shall continue to be in full force without any effect thereof. The LLP undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of Northern Western Railway.

AND the LLP hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the LLP and the LLP hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by Sh.....

WITNESSES:

Signature.....
Name:
Address :.....

Signatures of authorized representative
& Seal of LLP

Name of (Executants).....
Designation :.....
Signature Name :.....
Address :.....

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1) NameSignature.....

(2) Name.....Signature.....

Executed and Signed before me on this.....day of At (place).

(Seal and signature of Notary Public)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. Required even if tender documents are submitted by the authorized/ power of attorney holder himself as per resolution passed by Partners of the LLP

Signature of Tenderer

Dy. CSTE/C/AII

Annexure – XXI

Clause No. 16.2.5(c) of General Instructions & Clause No. 14(e)(iii) and 15
Of Annex.I Part-I of GCC-2022, with up to date correction slip.

POWER-OF-ATTORNEY

(For Registered Society & Registered Trust)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/s (Name of Registered Society / Registered Trust) is a Registered Society / Registered Trust registered under the Act (Name of the act vide which registered), and having its registered office at (hereinafter called the 'Registered Society / Registered Trust').

AND WHEREAS by its resolution No..... passed in the meeting held on.....of the Executive Member of the Registered Society / Registered Trust the Registered Society / Registered Trust (Registered Society / Registered Trust name) have decided to participate in the tender No. invited by North-Western Railway for the work namely “.....”

I (name and designation) the authorized representative of M/s(name of Registered Society / Registered Trust) duly authorized in this behalf by aforesaid resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms..... (designation) (address).....& Mr./ Ms..... Mr./Ms..... (designation)..... (address) who is/are presently holding the above mentioned position in the Registered Society / Registered Trust as our true and lawful attorney (hereinafter referred to as “Attorney”) of the Registered Society / Registered Trust to jointly or severally exercise all or any of the following powers for and on behalf of M/s (name of Registered Society / Registered Trust) in respect of the aforesaid tender Invited by the North-Western Railway :

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway
5. To sign the agreement and all other required documents & receive payment.
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of Registered Trust/Society.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration

The Registered Society / Registered Trust agrees and undertakes that in the event of any change in the constitution of the **Registered Society / Registered Trust**, the rights and obligations of the **Registered Society / Registered Trust** shall continue to be in full force without any effect thereof.

The Registered Society / Registered Trust undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North Western Railway.

AND the **Registered Society / Registered Trust** hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the **Registered Society / Registered Trust** and the Registered Society / Registered Trust hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by Shri.....(name and designation), on this..... day of 20...., in presence of:

WITNESSES:

Signature Name:
Address:

Signatures of authorized representative
& Seal of Registered Society / Registered Trust

Name of authorized Rep.
(Executants):.....

Signature of Tenderer

Dy. CSTE/C/AII

Designation:.....

Signature Name:

Address:

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1) Name.....Signature.....

(2) Name.....Signature.....

Executed and Signed before me on this.....day of At
(place).

(Seal and signature of Notary Public)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized:-

Annexure-XXII

Information and particulars in terms of Para 11(a) (b) & (c) of General Instructions and Clause No. 16 of Annexure-I Part-I of GCC-2022, with up to date correction slip

Name of the Firm.....

- (a) Information and particulars regarding employed retired Railway Engineer (s)/ Officer(s) of the Gazetted rank.

Sr. No.	Name of retired Gazette Officer / Engineer with Designation	Date of Retirement	Details of Permission obtained (wherever applicable)
1.			
2.			

- (b) Information and particulars regarding retired Railway Engineer (s)/ Officer(s) of the Gazetted rank being Director in the company.

Sr. No.	Name of retired Gazette Officer / Engineer with Designation	Date of Retirement	Details of Permission obtained (wherever applicable)
1.			
2.			

- (c) Information and particulars regarding retired Railway Engineer (s)/ Officer(s) of the Gazetted rank being one of the partner in the partnership Firm/ Joint Venture/ Registered Society/ Registered Firm/ LLP etc.

Sr. No.	Name of retired Gazette Officer / Engineer with Designation	Date of Retirement	Details of Permission obtained (wherever applicable)
1.			
2.			

- (d) Information and particulars in terms of Para 11(b) of General instructions regarding Relative(s) employed in gazette capacity on North Western Railway.

Sr. No.	Name of the relative who is employed in gazette capacity on North Western Railway with Designation	Relation
1.		
2.		

Note:-

- Details as per the above format shall be furnished by the tenderer. The format should not be left blank. In case of there being no such retired Gazetted Railway Officer/ Engineer/relative, Nil to be furnished in the format.
- In case above details are not submitted in terms of Para 11(a), (b) and (c) by the tenderer, their offer shall be summarily rejected.
- Also submit the document of permission from the President of India or any officer, duly authorized by him in this behalf, in case (i) where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender (ii) where such Engineer or officer is a partner or director as the case, in partnership firm or an incorporated company.
- If tenderer is JV then the Annexure-XXII shall be submitted by the Joint Venture bidder.

Signature of the tenderer.....

Name.....

Signature of Tenderer

Dy. CSTE/C/AII

Annexure-XXIII

Clause No. 17.14.4 (iii) of General Instructions

Partner's Resolution of LLP Firm for entering into Joint Venture

(To be printed on LLP Firm's letter head)

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS OF
 (LLP Name) having LLPIN..... of 20)
 (hereinafter referred to as LLP) HELD ON (Date)..... AT
 (Address).....

WHEREAS the Partners have been described about NIT No..... issued by
 North-Western Railway for the work namely
 “.....”. Partners discussed the matter and after
 discussion following resolution was passed:

RESOLVED THAT the LLP..... (LLP name) shall participate in the above
 tender in Joint Venture and for the purpose the LLP shall enter into and execute joint venture agreement,
 with M/s..... & M/s(name of other constituent(s) of joint
 venture).

Resolved further that the LLP/Partners authorize(s), Mr./Ms.....&
 Mr./Ms..... (name and designation) of the LLP, to jointly or severally, sign
 joint venture agreement, and to sign such other documents and to do any other act and complete requisite
 formalities on behalf of the LLP in connection with completion of aforesaid tender work and to enter into
 liability against the LLP.

Resolved further that LLP/Partners authorize(s) Mr./Ms..... (name and
 designation) of the LLP to execute Power of Attorney in terms of this resolution in favour of
 Mr./Ms..... Mr./Ms..... the person(s) above named.

The acts done and documents executed by such above named authorized person(s) shall be binding on the
 LLP.

For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person:

Place:.....

Dated:.....

Designation:.....

Executed and Signed before me on this.....day of At
 (Place).

(Seal and signature of Notary Public)

Annexure :XXIV

Clause No. 17.14.4 (iv) of General Instructions

POWER-OF-ATTORNEY BY ALLP Firm (incorporated under LLP Act) for entering into JOINT VENTURE AGREEMENT
(to be executed non judicial stamp paper of appropriate value as per law of state concerned Non Judicial stamp paper should be purchased in the name of the LLP)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/s..... (name of LLP & LLPIN number) is a LLP registered under the LLP Act, 2008, and having its registered office at (Hereinafter called the 'LLP'). AND WHEREAS by its resolution No..... passed in the meeting held on.....of the Partners of the LLP, the LLP..... (LLP name) has decided to participate in the tender No. issued by North-Western Railway for the work namely "....." in Joint Venture and for the purpose the LLP shall enter into and execute joint venture agreement with M/s.....& M/s..... (name of other constituent(s) of joint venture) AND THAT M/s..... (name of the lead member of joint venture) shall act as the lead member of above mentioned joint venture.

I (name and designation) the authorised representative of M/s..... (name of LLP) duly authorized in this behalf by aforesaid resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms..... (designation)(address) & Mr./ Ms..... Mr./ Ms. (designation) (address) who is/are presently holding the above-mentioned position in the LLP as our true and lawful attorney (hereinafter referred to as "Attorney") of the LLP to jointly or severally exercise all or any of the following powers for and on behalf of M/s..... Name of LLP & LLPIN number) in connection with aforesaid bid:

1. To enter into and execute and sign JOINT VENTURE agreement, draft of which has been approved by the LLP, on behalf of the LLP with above named constituents for participating in the aforesaid bid of the North Western Railway on behalf of the LLP.
2. To sign and submit all the necessary papers, letters, forms, quotes, bids etc.
3. To do any other act and complete requisite formalities on behalf of the LLP in connection with completion of aforesaid tender work and to enter into liability against the LLP.
4. And generally to do all such acts, deeds or things as may be necessary or proper for the purposes mentioned above.

The LLP agrees and undertakes that in the event of any change in the constitution of the LLP, the rights and obligations of the LLP shall continue to be in full force without any effect thereof.

The LLP undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North-Western Railway.

AND the LLP hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the LLP and the LLP hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by Shri.....(name and designation), on this..... day of 20... , in presence of:

WITNESSES:

Signature Name:

Address:

Signatures of authorized representative & Seal of LLP:

Name of authorized representative: Designation:

Signature Name:

Address:

Specimen Signatures of Attorney Holder in token of acceptance:

(1) NameSignature.....

(2) NameSignature.....

Executed and Signed before me on this.....day of At(place).

(Seal and signature of Notary Public)

Note:-The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. Required even if tender documents are submitted by the authorized/ power of attorney holder of the LLP firm himself.

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-XXV**NORTH-WESTERN RAILWAY CONTRACT AGREEMENT OF WORKS****(charged to EBR(IF))****CONTRACT AGREEMENT NO. -----DATED-----**

ARTICLE OF AGREEMENT made on this day in the year Two Thousand and between the President of India, acting through the (North Western Railway) Administration having its office at Jaipur hereinafter called the 'Railway' of the first and part and ----- Name of Contractor ----- hereinafter called the 'Contractor' of the second part and Indian Railway Finance Corporation Limited hereinafter called the 'IRFC' of the third part having its office at ----- with GSTIN ----- (GSTIN of billing unit, IRFC).

First part, second part and third part collectively hereinafter called the 'Parties'.

WHEREAS the contractor has agreed with the Railway for performance of the works----- set forth in the schedule hereto annexed upon the Standard General Condition of Contract corrected up to latest correction slips and the Specifications of the ----- Railway corrected up to latest correction slips and the Specifications of the ----- Railway, corrected up to latest correction slips and the Special Condition and Specifications, if any, and in conformity with the Drawings here-into annexed AND WHEREAS the performance of the said works is an act in which the public are interested.

NOW THIS INDENTURE WITNESSETH that in consideration to payments to be made by the Railways, the Contractor will duly perform the said works in the said schedule set forth and shall execute the same with great promptness, care and accuracy in a workman like manner to the satisfaction of the railway and will complete the same in accordance with the said specifications and said drawings and said conditions of contracts on or before the --- ----- day of -----20--- and will maintain the said work for a period of ----- calendar months from the certified date of their completion and will observe, fulfill and keep all the conditions there is mentioned (which shall be deemed and taken to be part of this contract as if the same have been fully set forth herein) AND the Railway both hereby agree that if the Contractor shall duly perform the said works in the manner aforesaid and observe and keep the said terms and conditions, the Railway will pay or cause to be paid to the contractor for the said works on the final completion thereof the amount due in respect thereof at the rates specified in the Schedule hereto annexed.

It is agreed by and between the parties that Railway shall continue to be held responsible for all obligations, risk and liabilities, whatsoever, arising out of or in connection with the Contract Agreement and this Novation Agreement, whether during the progress of the work or after its completion.

It is further agreed and understood by and between the parties that IRFC shall be the owner of assets, if any, arising out of execution of works as defined in the Contract Agreement, except the land whose ownership shall continue with Railway. Accordingly, the invoices shall be issued by capturing GSTIN of contractor (as the supplier) and GSTIN of IRFC (as the bill-to party). Also, the contractor shall submit the invoice, issued in the name of IRFC, to Railway for processing payment by Railway to Contractor subject to applicable TDS under the Income Tax, GST or any other applicable laws.

It is further agreed by and between the parties that IRFC shall be responsible to comply with Income Tax and GST laws in relation to filling of returns.

All the communication in relation to the Contract Agreement would only be between Party hereto of first part and second part.

For and on behalf of the President of India

Witness of the Signature

1..... 2.....

Address :

Signature of Contractor

Name of Authorized Signatory

Witnesses of the Signature

1..... 2.....

Address:.....

For and on behalf of the Indian Railway Finance Corporation

Witness of the Signature

1..... 2.....

Address :.....

Signature of Tenderer

Dy. CSTE/C/AII

ANNEXURE-XXVI

(Clause 14(ii) (b) of the GCC 2022)

CERTIFICATE

(For HUF (Hindu Undivided Family / for JV having HUF as member)

I..... (Indicate Name of Karta) S/o (Full address of HUF) Karta of M/s (Indicate Name of HUF) situated at (Full address of HUF) do hereby solemnly affirm & declare as under:-

1. That I, who is submitting the tender on behalf of the HUF is in the position of Karta of the HUF, working in the name & style of (Indicate Name – HUF) at

2. That, I (Indicate Name of Karta) has the authority, power and consent given by other members to act on behalf of..... (name of HUF).

S.No.	Name of Coparceners	Name of Father	Address
1.			
2.			
3.			
4.			
5.			

Deponent

Signature and Seal

VERIFICATION

I, the above named deponent do hereby solemnly affirm & verify that the contents of my above affidavit are true & correct. Nothing has been concealed and no part of it is false.

Deponent

Signature and Seal

Place:-

Date:-

Note: - The stamp duty shall be governed by the provision of the Law relating to stamp in Force in that State at the time when such AFFIDAVIT is being executed. Affidavit shall be affirmed before the Notary Public.

Annexure-XXVII

(Clause 14 (ii) (b) and clause 15 of the GCC 2022)

POWER OF ATTORNEY

(For HUF / Hindu Undivided Family)

BE IT KNOWN to all that we (1) (2).....
 (3).....(4).....(5)..... all the members of the
 HUF..... having its registered office at do hereby, for and on behalf of the said
 firm appoint Shri (Name & designation) Special Attorney of the said HUF and
 authorize the said Shri (name), whose specimen signature are appended below,
 to do all or any of the following acts deeds and/or things on behalf of the said firm and to represent the
 firm in respect for the tender No..... (Name of
 work)..... invited by North Western Railway.

1.	To appear before office of North Western Railway related to the process of tendering for the above said tender.
2.	To procure/download the tender documents for the above said tender.
3.	To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
4.	To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5.	To sign the agreement and other relevant documents & receive payment on behalf of firm,
6.	To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7.	To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We/ I have read the content of this Special Power of Attorney & accept the same and We/I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

Members of the HUF

(Signature of Sri.....)

(Name & signature)

DATE

1.....

2.....

Place

3.....

4.....

Seal of Firm

Seal of Firm

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized. (Not required if tender documents are uploaded by Karta himself).

Annexure-XXVIII

(Explanation for clause 10 – eligibility criteria, of the GCC 2022)

DECLARATION BY NEWLY FORMED PARTNERSHIP FIRM/ LLP FIRM**(Mandatory if tenderer is Newly Formed Partnership Firm/ LLP Firm)**

I..... S/o Shri, the authorized signatory of partnership firm/ LLP Firm M/sdo hereby solemnly affirm and declare as under :

1. That, we are the newly formed partnership firm/ LLP Firm in the name and style of M/s Registered with registrar of firm vide Registration No..... dated.....
2. In this newly formed Partnership Firm/ LLP Firm, we are No. of partners. The details of the previous proprietary firm or previous dissolved partnership firm/ LLP Firm or previous splitted partnership firm (s) / LLP Firm wherein any of the partners of the present firm was a proprietor / Partner and proposed to use credentials obtained in such previous propriety firm (s)/Partnership firm(s) / LLP Firm is as under :-

S.N.	Name of person in the newly formed partnership firm	Details of Previous proprietary/ Partnership Firm/ LLP Firm	Share in newly formed partnership firm	Share in previous partnership firm/ LLP Firm	Remarks
1					
2					

3. That, following relevant documents are Annexed with bid –
 - (i) Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I
 - (ii) A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Certificate as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).
 - (iii) Copy of previous LLP agreement and certificate of incorporation.
 - (iv) Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)
 - (v) Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)
 - (vi) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c) (d), (f), (g), (k) above.

Declaration by the Tenderer

We/ I have read the content of this declaration & respective conditions of the GCC regarding assessment of the eligibility of our partnership firm/ LLP firm and have/ has enclosed all the required mandatory documents accordingly. We/I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

Name and Signature of Tenderer along with Seal

Note:

1. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of $0.3 \times 0.2 \times \text{value}$ of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
2. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
3. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
4. In a partnership firm “AB” of A&B partners, in case A also works as propriety firm “P” or partner in some other partnership firm “AX”, credentials of A in propriety firm “P” or in other partnership firm “AX” earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
5. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.

Signature of Tenderer

Dy. CSTE/C/AII

Annexure-XXIX

(Explanation for clause 10 – eligibility criteria, of the GCC 2022)

DECLARATION BY AN EXISTING PARTNERSHIP FIRM/ LLP FIRM

(Mandatory if tenderer is an Existing Partnership Firm/ LLP Firm)

(Fill the relevant para (1.1, 1.2 & 1.3) and strike off the para which is not relevant under Partnership Firm)

I S/o Shri....., the authorized signatory of Partnership Firm/ LLP Firm M/s do hereby solemnly affirm and declare as under :

- 1.1 That, we are an existing Partnership Firm/ LLP Firm in the name and style of M/s....., since..... (MM/YY), having GST Registration No....., PAN/TAN No There has been no change in the Partner(s) of our firm during last 07 (seven) years ending last day of the month previous to the one in which tender is invited.

OR

- 1.2 That, we are an existing Partnership Firm/ LLP Firm in the name and style of M/s.....Since..... (MM/YY), having GST Registration No....., PAN / TAN No. Following of our partner(s) has/have quit the Partnership firm/ LLP Firm during last 07 (seven) years ending last day of the month previous to the one in which tender is invited, with details as under:

S. No.	Name of quitting Partner(s)	Share of Partner(s) who has/have quitted.	Date of quitting (MM/YY)

AND / OR

- 1.3 That, we are an existing Partnership Firm/ LLP Firm in the name and style of M/s....., since..... (MM/YY), having GST Registration No....., PAN/TAN No Following partner(s) has/have joined our Partnership Firm/ LLP Firm during last 07 (seven) years ending last day of the month previous to the one in which tender is invited, with details as under :-

S. No.	Name of Joining Partner(s)	Share of Joining Partners (s)	
		In the present firm	In the previous firm from where he/they has/have quit and joined the present firm

In case of Para 1.2 and 1.3, following documents as applicable are required to be submitted along with bid:-

- Details of previous Propriety firm / Partnership Firm/ LLP firm as per annexure I.
- A copy of previous partnership Firm (Notarized or duly registered with the Registrar) (3) Certificate as per proforma given of Annexure –IX for previous Propriety firm (duly executed on stamp paper and notarized).
- Copy of previous LLP agreement and certificate of incorporation.
- Dissolution deed/ splitting deed of the previous partnership deed or LLP agreement (in case of dissolution of previous partnership firm/ LLP firm)
- Proof of surrender of previous PAN no (in case of dissolution of previous partnership firm, LLP firm or propriety firm)
- Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such partner(s) joining the new/ existing partnership firm, as per para 16.1 (c), (d), (f), (g), (k) above.

Declaration by the Tenderer

We/ I have read the content of this declaration & respective conditions of the GCC regarding assessment of the eligibility of our partnership firm/ LLP firm and have/ has enclosed all the required mandatory documents accordingly. We/I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

Name and Signature of Tenderer alongwith seal.

- In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A,

Signature of Tenderer

Dy. CSTE/C/AII

B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.

2. In case of existing partnership firm if any other partner(s) joins the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
3. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
4. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
5. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.
6. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
7. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.

Annexure -XXX**(Explanation for clause 10 – eligibility criteria, of the GCC 2022)****DECLARATION REGARDING CONSTITUTION OF EXISTING/ NEW COMPANY/ This annexure is mandatory, if the company is merged)**

(Fill the relevant para (1.1, 1.2 & 1.3) and strike off the para which is not relevant)

- 1.1) I S/o Shri, the authorized signatory of the Company M/s do hereby solemnly affirm and declare as under: That, we are an existing Company working in the name and style of Registration No....., PAN/TAN No There has been no change in the constitution of our Company during last 07 (seven) years ending last day of the month previous to the one in which tender is invited.

OR

- 1.2) That, we are an existing Company working in the name and style of Registration No....., PAN / TAN No. Following Company (ies) merged in the Company during last 07 (seven) years ending last day of the month previous to the one in which tender is invited, with details as under:

S. No.	Name of merging company(ies)	Share of company(ies) who has /have merged.	Date of merger (MM/YY)

In case of Para 1.2, following documents as applicable are required to be submitted along with bid:-

- (1) Details of company getting merged as per Annexure-I
- (2) Copy of Memorandum of Association/ Articles of Association of the Company getting merged
- (3) Copy of certificate of incorporation of previous company getting Merged.
- (4) Resolution by the Board of Directors for the Merger of the company(s) with the tenderer (5) Proof of surrender of previous PAN no
- (6) Documents for the technical, financial criteria, bid capacity as claimed w.r.t. such Company(s) joining the new/ existing Company, as per para 16.1 (c), (d), (f), (g), (k) above.

Declaration by the Tenderer

We/ I have read the content of this declaration & respective conditions of the GCC regarding assessment of the eligibility of our company(ies) and have/ has enclosed all the required mandatory documents accordingly. We/I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

Name and Signature of Tenderer
alongwith seal.

- Notes:** 1) In case company A is merged with company B, then company B would get the credentials of company A also.
2) **This annexure is mandatory, if the company is merged.**

Annexure-XXXI

(Clause 10.1 (b) (iii) of part I and clause 7 of Part II of the GCC 2022)

NORTH-WESTERN RAILWAY**CONTRACT AGREEMENT OF SECONDARY COMPONENT OF THE WORKS****CONTRACT AGREEMENT NO. -----DATED-----**

ARTICLE OF AGREEMENT made on this day in the year... between the(the tenderer), having its office at ----- submitting offer for the tender no.....for the work hereinafter called the 'Main Contractor' of the first and part and ----- Name of Sub Contractor ----- hereinafter called the '**Sub Contractor**' of the second part having its office at with **GSTIN** First part, second part collectively hereinafter called the 'Parties'.

WHEREAS the contractor has agreed with the Railway for performance of the works----- set forth in for the componentdetailed in schedulefor the total cost of Rs.....of the tender schedule of the tender no..... The Standard General Condition of Contract corrected up to latest correction slips and the Specifications of the -----Railway corrected up to latest correction slips and the Specifications of the ----- Railway, corrected up to latest correction slips and the Special Condition and Specifications, if any, and in conformity with the Drawings here-into annexed and whereas the performance of the said works is an act in which the public are interested.

NOW THIS INDENTURE WITNESSETH that in consideration to payments to be made by the Railways, the Contractor will duly perform the said works in the said schedule set forth and shall execute the same with great promptness, care and accuracy in a workman like manner to the satisfaction of the railway and will complete the same in accordance with the said specifications and said drawings and said conditions of contracts on or before the --- day of -----20--- and will maintain the said work for a period of ----- calendar months from the certified date of their completion and will observe, fulfill and keep all the conditions there is mentioned (which shall be deemed and taken to be part of this contract as if the same have been fully set forth herein) AND the Railway both hereby agree that if the Contractor shall duly perform the said works in the manner aforesaid and observe and keep the said terms and conditions, the Railway will pay or cause to be paid to the contractor for the said works on the final completion thereof the amount due in respect thereof at the rates specified in the Schedule hereto annexed.

All the communication in relation to the Contract Agreement would only be between Party hereto of first part and second part. No claim of Contractor, whatsoever on this account shall be entertained by the Railway and this shall be deemed as 'excepted matter' (matter not arbitrable).The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the Railway and shall not relieve the Contractor of any responsibility under the Contract. The Contractor shall indemnify Railway against any claim of subcontractor. The Contractor shall endeavor to resolve all matters and payments amicably and speedily with the subcontractor

On receipt of approval from Chief Engineer, Contractor shall enter into a formal agreement legally enforceable in Court of Law with subcontractor and submit a copy of the same to the Engineer.

In addition to issuance of work experience certificate to Contractor, the Engineer, when, based on documents, is satisfied that subcontracted work has been carried out by subcontractor, shall issue work experience certificate to the subcontractor also for the portion of work subcontracted and successfully completed by the sub-contractor

The responsibility of successful completion of work by subcontractor shall lie with Contractor. Subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the Contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to Engineer. Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of Railway, with prior intimation to Chief Engineer.

For and on behalf of the Contractor
Name of Authorized Signatory

Witness of the Signature

1..... 2.....
Address :.....

Signature of Sub Contractor

Name of Authorized Signatory

Witnesses of the Signature

1..... 2.....
Address:.....

(Seal and signature of Notary Public)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Agreement is being executed. The Power of Attorney shall duly registered with registrar or notarized.

Signature of Tenderer

Dy. CSTE/C/AII

Annexure -XXXII

(Annexure –VIA Para 5 of the Instructions to Tenderers of GCC 2022)

(Bid Security)

Bank Guarantee Bond from any scheduled commercial bank of India
(On non-judicial stamp paper, which should be in the name of the Executing Bank)

Name of the Bank: -----

President of India,
Acting through.....
..... Railway,

Beneficiary:.....Railway

Date:.....

Bank Guarantee Bond No.:.....Date:-----

In consideration of the President of India acting through..... (***Designation & address of Contract Signing Authority***),.....Railway,, (hereinafter called "The Railway") having invited the bid for..... through Notice inviting tender (NIT) No....., We have been informed that
[Insert name of the Bidder]..... (***hereinafter called "the Bidder"***) intends to submit its bid (hereinafter called "the Bid") .

WHEREAS, the Bidder is required to furnish Bid Security for the sum of [Insert required Value of Bid Security], in the form of Bank Guarantee, according to conditions of Bid.

AND

WHEREAS,***[Insert Name of the Bank]***, with its Branch***[Insert Address]*** having its Headquarters office at..... ***[Insert Address]***, hereinafter called the Bank, acting through***[Insert Name and Designation of the authorised persons of the Bank]***, have, at the request of the Bidder, agreed to give guarantee for Bid Security as hereinafter contained, in favour of the Railway:

1. KNOW ALL MEN that by these present that I/We the undersigned ***[Insert name(s) of authorized representatives of the Bank]***, being fully authorized to sign and incur obligations for and on behalf of the Bank, confirm that the Bank, hereby, unconditionally and irrevocably guarantee to pay to the Railway full amount in the sum of [Insert required Value of Bid Security] as above stated.
2. The Bank undertakes to immediately pay on presentation of demand by the Railway any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the Railway on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/ pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.
3. The Bank shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the Bidder and without the Railway being required to show grounds or give reasons for its demand of the amount so demanded.
4. The guarantee hereinbefore shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.
5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any documents, which have been or may be made between the Railway and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by Railway at any time.
6. This guarantee will remain valid and effective from.....[insert date of issue]till***[insert date, which should be minimum 90 days beyond the expiry of validity of Bid]***. Any demand in respect of this Guarantee should reach the Bank within the validity period of Bid Security.
7. The Bank Guarantee is unconditional and irrevocable.
8. The expressions Bank and Railway herein before used shall include their respective successors and assigns.
9. The Bank hereby undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of the Railway. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.

Signature of Tenderer

Dy. CSTE/C/AII

10. The Bank hereby confirms that it is on the SFMS (Structured Financial Messaging System) and shall invariably send the advice of this Bank Guarantee to the following bank details –

IFSC CODE	SBIN000RAIL
IFSC TYPE	BRANCH
BANK NAME	STATE BANK OF INDIA
BRANCH NAME	RAIL
CITY NAME	NAVI MUMBAI
ADDRESS	SECTOR-11, CBD BELAPUR, NAVI MUMBAI
DISTRICT	NAVI MUMBAI
STATE	MAHARASHTRA
BG ENABLED	YES

11. The Guarantee shall be valid in addition to and without prejudice to any other security Guarantee(s) of Bidder in favour of the Railway. The Bank, under this Guarantee, shall be deemed as Principal Debtor of the Railway.

Date

Place.....

Bank's Seal and authorized signature(s)

[Name in Block letters]

[Designation with Code No.].....

[P/Attorney] No.....

Witness:

1. Signature, Name & Address & Seal

2 Signature, Name& address & Seal Bank's Seal

[P/Attorney] No.

Note: All italicized text is for guidance on how to prepare this bank guarantee and shall be deleted from the final document.
