

NOTICE INVITING EXPRESSION OF INTEREST (EOI)

EOI NO.: RCIL/NR/TM/JP/EOI/NWR/EI/NNL-KTWS/2023-24 DATED 22-JAN-2024

Expression of Interest (EOI) from RailTel's Empaneled Business Associate Partners for Selection of Implementation Partner for exclusive PRE-BID TEAMING ARRANGEMENT for "Automatic Block Signaling works in Narnaul- Kathuwas section of Jaipur division on North Western Railway".

Issued by:



RailTel Corporation of India Ltd

(A Mini-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.

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End Customer Tender Details

Tender Title	Design, manufacture, supply, installation, testing and commissioning of Microprocessor based Electronic Interlocking (EI) system in “Hot Stand By Mode” at Kathuwas (KTWS) (excl.), Ateli (AEL), Mirzapur Bachhod (MBV) and Narnaul (NNL) stations and Mid-Section Interlocked LC Gates for execution of indoor and outdoor Signalling and Telecomm works, which includes excavation of trench, laying of cables, casting of foundations of MACLS Signals & apparatus cases, erection/ installation of MACLS signals, fixing & wiring of track circuits & point machines, centralized operation of points & signals, installation of Telecomm Equipments and it also include provision of Automatic Block Signalling (ABS) with supervisory track section facility (software as well as hardware) etc as per RE standard in connection with Provision of Doubling work in phased manner of Narnaul-Kathuwas section of Jaipur division on North Western Railway”.
Tender No.	SNT-103
Date of Tender upload	05.01.2024
Floated on portal	www.ireps.gov.in


Indian Railways E-Procurement System


Search Tender
➔ 🔌

Active Tenders Closing Today
All Active Tenders
Recently Closed Tenders
Custom Search
Live & Upcoming e-RA
Closed e-RA

(Please choose one or more option for search, view & Downloading E-Tender Notices and Click 'Show results' to view Details of E-tenders)

Search Criteria: Tender Number Starting with Search For : SNT-103

Note:- Please enter minimum first 3 characters of Tender Number or PLNO (these are case sensitive) or any 3 consecutive characters of Tender title or item description.

Organization: Indian Railway

Railway/PU: North Western Railway

Unit: All

Tender Status: All

Bidding System: All



Work Area: All

Department: All

Tender Type: All

Select Date: Tender Closing Date From 19/01/2024 To 01/02/2024

Show Results

Deptt./Rly. Unit	Tender No	Tender Title	Status	Work Area	Due Date/Time	Due Days	Actions
DYCSFE-C-JP-S AND T/NORTH WESTERN RLY	SNT-103	Design, manufacture, supply, installation, testing and commi.....	Published	Works	30/01/2024 15:00	11	 

Print Results

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.

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EOI NOTICE

RailTel Corporation of India Limited, Territory office, Jaipur.

EOI NO.: RCIL/NR/TM/JP/EOI/NWR/EI/NNL-KTWS/2023-24 DATED 22-JAN-2024

RailTel Corporation of India Ltd., (here after referred to as “RailTel”) invites EOIs from RailTel’s Empaneled Business Associate Partners for Selection of Pre and Post Implementation Partner from RailTel Empaneled Business Associate for exclusive PRE-BID TEAMING ARRANGEMENT for “Automatic Block Signaling works in Narnaul- Kathuwas section of Jaipur division on North Western Railway”

The details are as under:

SCHEDULE OF EVENTS

1	Date of EOI Floating	22-JAN-2024
2	Last date for submission of Bids against EOI	27-JAN-2024 at 11:00 Hours
3	Opening of Bids received against EOI	27-JAN-2024 at 11:30 Hours
4	Number of copies to be submitted	Single Stage (Single Packet System)
5	EOI document cost inclusive tax (non-refundable)	Nil
6	EOI processing fee inclusive tax (non-refundable)	Rs. 8,850/-
7	Estimated amount of EOI	Rs. 25,92,74,498/- (inclusive of GST)
8	EMD for Pre-Bid Arrangement	Token EOI EMD for an amount of Rs. 5,00,000/- (Rs. Five Lakhs only) along with the EOI. Final EMD (to be submitted by selected bidder): <u>Rs.17,70,500/- before final bid proposal submission by RailTel against CoR RFP/Tender.</u> Token EOI EMD amount shall be adjusted accordingly.
9	Bid Submission Mode	Online on https://railtel.enivida.com

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

Initially while participating in EoI the bidder needs to submit EMD i.e. Token EOI EMD for an amount of Rs. 5,00,000/- (Rs. Five Lakhs only) along with the EOI. EMD can be paid as under:

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

Final EMD (to be submitted by selected bidder):

- **Rs.17,70,500/- before final bid proposal submission by RailTel against CoR RFP/Tender. Token EOI EMD amount shall be adjusted accordingly.**
- **The Final EMD has to be submitted by successful BA before bid proposal submission by RailTel against CoR RFP /Tender.**
- **Undertaking for balance EMD shall be deposited along with the EoI Bid Proposal by the bidder.**
- **Non-submission of remaining EMD as applicable will lead to forfeiture of token ‘EOI EMD’.**
- **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. Pankaj Singh, Sr. Manager/Technical

Email: psingh@railtelindia.com Contact: +91-7087039937

Level:2 Contact: Sh. R.P. Chandel, TM/Jaipur

Email: chandelp95@railtelindia.com Contact: +91-9498037985

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 pre-RFP partnership arrangement with empaneled business associate of RailTel for participating in the end customer RFP. Selected partner's authorised signatory has to give an undertaking they will not submit directly or indirectly their bids and techno-commercial solution/association with any other Organization once selected in this EOI for pre-bid teaming arrangement (before and after submission of bid to prospective customer Organization by RailTel). This undertaking has to be given with this EOI Response.
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.
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 also undertake to submit MAF of major items of the proposed solution and other documents required in the end Customer Organization's tender in favour of RailTel against the proposed products. The selected BA has to provide MAF from the OEM in the name of RailTel for bidding in the concerned tender of CoR, if their proposed solution is quoted to the customer.
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 submit Techno-Commercial offer to Customer of RailTel (CoR) in NWR (hereafter referred as ‘CoR’) and accordingly seeks to select a suitable partner for pre-bid arrangement.

RailTel intends to submit Techno-Commercial offer to Customer of RailTel (CoR) for Automatic Block Signaling works in Narnaul- Kathuwas section of Jaipur division on 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 submit best techno commercial proposal 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-103, dt.05.01.24

Special Note: RailTel may or may not retain some portion of the work mentioned in the EOI where RailTel has competence so that overall proposal becomes most winnable proposal.

Purpose of EOI

- 3.1 The intent of this EOI is to invite proposals from the prospective bidders for Automatic Block Signaling works in Narnaul- Kathuwas section of Jaipur division on North Western Railway.**
- 3.2 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.

3.3 Solution provider need to offer solution with no single point of failure in hardware 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.

3.4 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.

3.8. Interested partners may note that this is a Single stage Single Packet Bid.

3.9. Only those bids shall be opened, which have been submitted within the stipulated time as mentioned in this EOI document.

3.10. **Stage -I : Technical Bid contains following :-**

S.No.	Type	Eligibility Criteria	Documents Required
1	Existence/ Origin	The company 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	Turnover	The bidder must have 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 Balance Sheet and CA certificate
4	Net Worth	The bidder should have positive net worth as on 31-MAR-2023.	Audited Balance Sheet and CA certificate
5	Experience	The bidder must have successfully completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which EOI is invited, as 1. One similar work of 60% of estimated amount of EOI. OR	Copy of Purchase/ Work Order and completion/ satisfactory performance certificate issued by client. Work experience certificate issued by Govt. Organization or Public listed company (with minimum average annual turnover of

S.No.	Type	Eligibility Criteria	Documents Required
		<p>2. Two similar works each of 40% of estimated amount of EOI.</p> <p>OR</p> <p>3. Three similar works each of 30% of estimated amount of EOI.</p> <p>Definition of similar work: Similar work means “Any RRI/PI/EI/MACLS SITC Signalling work” OR “Any RRI/PI/EI/MACLS Alteration Signalling work” OR “Any CTC/TMS work”</p>	<p>Rs.500Cr and listed on National Stock exchange/Bombay stock exchange) shall only be considered.</p> <p>For ongoing works: Ongoing works will be considered for value of executed work (minimum 70% work executed) certified by PO issuing authority / customer mentioning completed work value on the certificate along with satisfactory completion certificate for work completed so far.</p>
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 authorised 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 checklist.
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	Pre-Bid Agreement	Bidder has to submit the acceptance of the pre-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	Bidder has to submit notarized affidavit as per the format enclosed along with the bid.

S.No.	Type	Eligibility Criteria	Documents Required
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.

3.11. Based on evaluation of outcome against 3.10, whoever may qualify as per 3.10 and further complying technical requirement with supporting documents of OEM MAF, 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.

3.12. Stage-II: Financial Bid:

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

3.13. 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.

3.14. 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 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.

3.15. 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 place best techno-commercial bid in response to the pertinent CoR's requirement. Further relationship with CSP will be based on the outcome of pertinent CoR's requirement.

3.16. 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.

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 tender.

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) 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 for bid process. 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 180 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 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. 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.

13. Performance Bank Guarantee (PBG) and Security Deposit

13.1. In case of successful participation by RailTel in the pertinent CoR's requirement and subsequent engagements with CSP, 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 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.

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 09 months with Maintenance period of One year, subject to successful participation of RailTel in the pertinent CoR's tender.** 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.

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 ForceMajeure 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 used 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,
General Manager (Mktg),
RailTel Corporation of India Limited.

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

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: _____ 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.

Annexure 4**Commercial Bid**

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

EoI Ref No.:

Date:

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

1. NIT HEADER

Name of Work	Automatic Block Signaling works in Narnaul- Kathuwas section of Jaipur division on North Western Railway
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2. Schedule

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-NS							140395429.61	
	NS	1.00	Station	6551384.00	6551384.00	AT Par	6551384.00	
1	<p>Description:- Addition, alternation and wiring in existing of Design, Manufacture & Supply of Electronic Interlocking (EI) System (with centralized arrangement) with I/O gathers for Mirzapur Bachhod 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 EI Cards & module, wires, cable and other material etc required for alteration. (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. 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</p>							

	NS	3.00	Per Goomty/IBH/ Auto Hut	2728182.40	8184547.20	AT Par	8184547.20	
2	<p>Description:- Design, Manufacture and Supply of Electronic Interlocking System (Hot Standby) equipments as per RDSO specification no. RDSO /SPN/192/2019 Ver 2.0 with latest amendments (I/O gatherer or object controller OC , CIU (if required)) for mid section Relay Huts/Goomties for Auto-Signalling EI working in conjunction and in tandem with Auto E.I. being provided at Stations in North Western Relay Room/End Goomties etc. (item wise break up cost and details to be supplied with unit, rate, quantity and brief description of their function should be listed by tenderer in Annexure). Rate for supply of essential spares to be quoted separately (item wise details to be supplied with unit, rate, quantity and brief description of their function should be listed by tenderer in (ANNEXURE-"F" as enclosed below) which consists circuits packs/ boards/terminals, power supply equipments, cards, ancillary equipments, interconnecting cables/couplers/ connectors of each type which may be lowest level field replaceable module/ assembly/ device. Itemwise details of essential spare minimum @ 10% of the quantities used in the equipment subject to minimum of one to be supplied as stipulated in the Para 10 of Special Condition of Contract of EI system at above station. Inspection: by RDSO. However, items not covered under RDSO inspection, will be inspected by the representative of CSTE/C/NWR as per RDSO acceptance test format. Drawing to be submitted in this cost - Supply of completion Drawing and Documents for approval, Technician/ Jr. Engg at installation and maintenance level - Manual for installation, testing, commissioning and maintenance of the system. 6 sets for each E.I. Supply of completion Drawing and Documents: c) Supply of completion drawing and documents: Completion documents- 6 Sets for each EI Station. Inspection: Representative of CSTE/C/NWR. The Input/output of Auto E.I. and other related informations shall be send/received to other adjacent Auto EI or Existing E.I. to take corresponding inputs/outputs wherever required for Indications/Interlocking processing purposes. or Existing E.I. to take corresponding Inputs/outputs wherever required for Indications/Interlocking processing purposes. Note:-- Unit of 1 Nos Auto Goomty will be treated as One(01) Nos "Station"</p>							
3	NS	6.00	Numbers	427030.25	2562181.49	AT Par	2562181.49	
	<p>Description:- Supply ,installation, wiring, testing and commissioning of embedded fanless PC based VDU control 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. (ii) One revolving chair should be supplied with control terminal. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply</p>							
4	NS	3.00	Numbers	411190.77	1233572.30	AT Par	1233572.30	
	<p>Description:- Supply ,installation, wiring, testing and commissioning 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: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply</p>							
5	NS	3.00	Numbers	8893.54	26680.61	AT Par	26680.61	
	<p>Description:- Change over switch 200 Amp. 3 Phase, 415VAC, 50Hz (Side Handle) four pole, Make Havel IHCFFE 200 or superior. Inspection: Consignee Inspection Charges:None "</p>							
6	NS	2000.00	Metre	23.50	47008.00	AT Par	47008.00	
	<p>Description:- Supply of 2.5 Sqmm (Red/Black) Multistrand copper wire for Track feed Charger and battery. Inspection: Consignee Inspection Charges:None</p>							
7	NS	3.00	Numbers	251204.88	753614.64	AT Par	753614.64	
	<p>Description:- Supply of Edge PC for Data receiving and routing to the central processing and storage system at Zonal HQ and Central cloud as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest</p>							
8	NS	6.00	Numbers	163566.34	981398.06	AT Par	981398.06	

	Description:- Supply of station Gateway equipment to receive the data from various IoT devices at field , relay room, equipment room as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest. Note: Necessary Public IP and its recurring charges should be borne by the railway.						
9	NS	192.00	Numbers	64704.52	12423267.84	AT Par	12423267.84
	Description:- Supply of IoT device for various S&T gears and transmit the data to the station gateway system as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest.						
10	NS	6.00	Numbers	164221.49	985328.93	AT Par	985328.93
	Description:- Supply of IoT device for sensing 110 V DC Battery Bank parameters and transmit the data to the station gateway system as per FRS Document No. RDSO/ RDPM/FRS/2021 dated 06.05.2021 or latest.						
11	NS	10.00	Numbers	23366.62	233666.24	AT Par	233666.24
	Description:- Supply of voice modem at station gateway to connect field IoT device to the station gateway via copper cable.						
12	NS	3.00	Numbers	38978.04	116934.12	AT Par	116934.12
	Description:- Supply of Dual serial to EI converter card to connect station gateway to Central system at Zonal HQ.						
13	NS	3.00	Numbers	130800	392400	AT Par	392400.00
	Description:- Supply of Microprocessor based interface for SSDAC/HASDAC/MSDAC to monitor upto 8 ports of DAC reset boxes in SM / Relay Room as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest.						
14	NS	1.00	Station	62317.6	62317.6	AT Par	62317.60
	Description:- Data Logger System and alternation work in the existing Data logger at MBV for Doubling with Auto signalling work						
15	NS	3.00	Station	240000	720000	AT Par	720000.00
	Description:- Supply of Data logger with 512 digital inputs and 32 Analog inputs as per RDSO spec No. IRS:S:99/2006 (Amendt.3) or latest. (Inspection RDSO)						
16	NS	650.00	Numbers	112.992	73444.8	AT Par	73444.80
	Description:- Supply of Cartridge fuse PPTC						
17	NS	3.00	Numbers	27809.6	83428.8	AT Par	83428.80
	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 on RE-KTWS section on jp division One no required per Data logger ,that converts Voice to E1 channel at Stations,24 for FEP in control room) (Inspection by RITES)						
18	NS	6.00	Numbers	28127.424	168764.544	AT Par	168764.54
	Description:- Supply of Dual channel serial optical fibre Media converter(data logger to Data logger NETWORKING VIA DUAL PATH)(Inspection by Consignee)						
19	NS	3.00	Numbers	107265.6	321796.8	AT Par	321796.80
	Description:- Supply of Data concentrator (Additional T port connectivity in between existing rings (Inspection by consignee)						
20	NS	3.00	Numbers	33200	99600	AT Par	99600.00
	Description:- Supply of Protocol converter (Inspection Consignee)						
21	NS	24.00	Pair	403.608	9686.592	AT Par	9686.59
	Description:- Rubber hand gloves suitable for 1500 Volts.ISI marked tested certificate to IS: 4770-1968-91 as per IS:13774-1993. make commander/ similar.						
22	NS	6.00	Set	4156.032	24936.192	AT Par	24936.19

	Description:- Tool kit for signal maintenance with following items (with small size canvas log) (i) Insulated combination plier of 8" = 1 no. (ii) Insulated long nose plier of (road wise) 6" = 1 no. (iii) Insulated wire stroppler plier of 6" = 1 no (iv) Insulated screw driver set (5 piece) = 1 set (v) Side cutting plier 6" = 1 no (vi) Hex with frawise 12" = 1 no (vii) Double end spanner set (6 to 32mm) = 1 set (viii) Adjustable spanner set 8" = 1 no (ix) Ball pin hammer 200 gm = 1 no (x) Soldering iron 25 watt = 1 no (xi) Torch cell LED (3 cell) eveready/jeep = 1 no (xii) Auto ranging digital multimeter (Branded) = 1 no (xiii) Crow bar steel/ tommy bar = 1 no						
23	NS	3.00	Numbers	59387.88	178163.64	AT Par	178163.64
	Description:- Supply & Installation of Solar Distilled water plant capable to produce minimum 50 Liter distile water per day complete assembly containing following components. (a) Interconnection & different valves for connection inlete, outlete tank, internal distribution system. Pipe should be 3/4" astrial make, incl. supply of pipe and accessories like valves, elbow, Tsocket joint etc. (min requirement 25 Mtrs approx). (b) Water pump 1 HP workable on 230 V AC with all accssories like 15 AMP plug, socket & cord etc. Same water pump will be unlisted for pumping water to inlete tank & recharging the resin cation / nion column by providing interconnection valves, sockets etc. (c) Water storage tank of 50 liter capacity, 02 nos of reputed make like Sintex for storing of inlet and outlet water by suitable pipe fitting. (d) Campers of 12 liter capacity-05 Nos. (e) Testing Kit or connectivity meter for online checking of the quality of water. Inspection: Consignee Inspection charges: None						
24	NS	100.00	Numbers	542.648	54264.8	AT Par	54264.80
	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.						
25	NS	300.00	Numbers	320575.536	96172660.8	AT Par	96172660.80
	Description:- Supply of Multi section digital axle counter complete set with all accessories consisting of complete indoor and outdoor equipment including including reset box, and monitoring console as per RDSO specification no.RDSO/SPN/176/2013 (ver. 3) with latest ammendmend/revision of required track section. It includes transportation to SSE depot and from SSE depot to site. Inspection by RDSO (1 Number = 1 DP). Note: 1. If any housing is required to keep outdoor equipment, it has to be supplied with the equipment with no extra cost. 2. Maintenance free earthing (supply and installation) for track device/mushroom housing to be done by the contractor if required by system design. No separate payment will be made. 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 to be provided for up and Dn line as well as at station or RH as decided by the site engineer. ABS scheme will be as per letter no. SG/42/NWR/HQ/Vol VII dtd. 31.05.2022						
26	NS	15.00	Numbers	16992	254880	AT Par	254880.00
	Description:- Supply of DC to DC Converter, 24-32 V/5Amp as per RDSO spec no. RDSO/SPN/165/2012 or latest						
27	NS	15.00	Numbers	17464	261960	AT Par	261960.00
	Description:- Supply of DC to DC Converter, 24-32 V/10Amp as per RDSO spec no. RDSO/SPN/165/2012 or latest						
28	NS	1.00	Numbers	59276.592	59276.592	AT Par	59276.59
	Description:- Supply of 1KVA inverter module as per RDSO spec no. RDSO/SPN/165/2012 or latest						
29	NS	1.00	Numbers	13254.704	13254.704	AT Par	13254.70
	Description:- Supply of 1KVA transformer module as per RDSO spec no. RDSO/SPN/165/2012 or latest						
30	NS	1000.00	Metre	360	360000	AT Par	360000.00
	Description:- Supply of HDPE pipe 4"/110mm for HDD crossing as per IS Spicification 4984: 2016 or latest						
31	NS	100.00	Sqm	1463.504	146350.4	AT Par	146350.40

	Description:- Supply of insulation mate, rubber mate for electrical purpose 2.5mm thick size 2m x1m suitable for 3.3KV to 11KV (class-B) confirming to IS 15652-2006.						
32	NS	20.00	Numbers	960	19200	AT Par	19200.00
	Description:- Supply of Smoke Detector Tester, Aerol 9980,117g						
33	NS	10.00	Numbers	2632	26320	AT Par	26320.00
	Description:- Supply of Heat Gun (2000W)						
34	NS	3.00	Numbers	52951.64	158854.92	AT Par	158854.92
	Description:- Supply of led indication system with indication, buzzer and acknowledgment button up to 6 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 by RITES.						
35	NS	8.00	Numbers	66848.92	534791.36	AT Par	534791.36
	Description:- Supply of way station control equipment as per RDSO specification No. RDSO/SPN/TC/66/2007 with amendment-2, including latest amendment with necessary mounting arrangement on composite rack or wall as decided by site engineer. It shall be 48V DC operated provide to give connect to atleast 4 stations telephone and have a facility to give more connections by using 3 way amplifier. Inspection: RDSO Inspection charges: Borne by Railways						
36	NS	15.00	Numbers	1411.088	21166.32	AT Par	21166.32
	Description:- Supply of push button telephone Pulse/Tone switchable telephone set with 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						
37	NS	15.00	Numbers	692.328	10384.92	AT Par	10384.92
	Description:- Push Button CLI Phone, Handfree Make Beetel or superiar. Inspection: Consignee Inspection Charges:None						
38	NS	4.00	Numbers	312589.552	1250358.208	AT Par	1250358.21
	Description:- Supply, Transportation & Testing of VHF based secured communication equipment consisting of microcontriller based equipment with built in Voice/Data storage facilites. 25 W VHF radio with talking instrument, power supply (12V DC/15Amp) sealed maintenance free battery bank 12V/120AH, Omni directional stacked dipole antena, 50 mtr length RG-217 cable, inclding portable programing and data back up terminal . Make -AE Telelink as per RDSO specification no. RDSO/SPN/TC/73/2008 with latest amenments.						
39	NS	2.00	Numbers	115886.864	231773.728	AT Par	231773.73
	Description:- Supply, installation,testing and commissioning of 24 port manageable Layer 3 switch with 4 nos. 10G SFP port (fully loaded) and 24 nos of GE port (Fully loaded with 12 opticle and 12 electrical SFP's with moudle) with all accessories as per RDSO/SPN/TC/83/2020 ver 2.0 or latest.						
40	NS	2000.00	Metre	18.68	37360	AT Par	37360.00
	Description:- Supply of PVC Conduit pipes 25 mm dia.ISI marked MS Series as per IS-9537 Part-III -1983 Sta standered or latest inspection by Consignee						
41	NS	90.00	Metre	166.096	14948.64	AT Par	14948.64
	Description:- Supply of RJ-45 Cat-6 Patch chord /LAN Cable length 1 mtr. Make of D-link, Amp/Tyco, DAX, Legrand, Molax or Similaror superior						
	NS	1.00	Set	164930.768	164930.768	AT Par	164930.77

42	Description:- Supply of maintenance tool kit as per technical specification as per Annexure 1.) Digital multimeter 4 1/2 digit with liquid crystal display 01 no. Fluke-287 or similar/Motwani/stenley (ii) Utility Knife-01 no.(iii) Cable splitter-1 no. (iv) Tubing cutter for cable armour-1 no.(v) Bare fiber adaptor -01 no. (vi) Miller high precision stripper for fiber buffer-1 No. (vii) Cleaver Fujikura make or similar-1 no. (viii) Mechanical splice joint set, 01 set consisting of 6 nos. (ix) ceramic scissor CSI -01 NO. (x) FC/PC Adaptor with ODB Loss 10 no.(xi) Optical fiber terminal block v groove-02 nos. (xii) Earth resistance measuring instrument with all accessories suitable for measuring earth resistance in range of 0.1 ohms to 10 ohms-01 no. (xiii) Megger-01 no.(xiv) laser distance meter PRO-L100-02 No.(xv) supply of digital multimeter 3 3/4 digit liquid crystal display type (Stenly or Motwane or similar) (xvi) supply of LPG Blow lamp -02 no. (for use in copper cable jointing) (xvii) supply of medium hammer set with chisel set with covered holder inspection by consinee							
43	NS	7.00	Numbers	250746.152	1755223.064	AT Par	1755223.06	
	Description:- Supply of standard 19" rack mountable LER ,IP-MPLS Router with redundant -48 VDC Power supply ,2x 10 G SFP + Port along with 2 Nos of 10 G SFP +MODULE(40 Kms),4x 1Gbe optical interface with 04 no. of 1Gbe SFP (10 Kms) module,4x iGbe copper WAN based interface and 16x E1 (G.703) Interface module ,with upgrade option as per Sn.B Item 3 of RDSO Document no: STT/TAN/IP-MPLS/2020 Version 1.0 or latest (inspection by RDSO)							
44	NS	14.00	Numbers	70177.44	982484.16	AT Par	982484.16	
	Description:- Supply of 16 port Channelised E-1 Interface card (including 120 ohms cable) suitable for the IP - MPLS router for Sr no. Inspection by RDSO							
45	NS	4.00	Numbers	74315.36	297261.44	AT Par	297261.44	
	Description:- Supply of 8x 10 Gbps WDM Interface module card or channelized STM-1/4 Card suitable for the above as per the site requirement and as instruction by site incharge inspection by RDSO.							
46	NS	7.00	Numbers	28390.136	198730.952	AT Par	198730.95	
	Description:- Supply of 8 port X1G E4FE/4 FX module card suitable for the IP MPLS Router for Sr.no. 38 inspection by RDSO							
47	NS	7.00	Numbers	24215.12	169505.84	AT Par	169505.84	
	Description:- Supply of 4 port x 10G SFP Module card suitable for IP MPLS Router for Sr.no.38 inspection by RDSO							
48	NS	4.00	Numbers	4466.536	17866.144	AT Par	17866.14	
	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 inspected by Consinee							
49	NS	4.00	Numbers	101979.04	407916.16	AT Par	407916.16	
	Description:- Supply of 2 LAN /(8X2) Mbps WAN Port router -48 volt DC Operated with required connecting cable and connector to connect the ethernet device and with rack mounting .make:- CISCO/HP/NORTEL/Or equivalent inspection consinee.							
50	NS	1.00	Numbers	453103.288	453103.288	AT Par	453103.29	
	Description:- Supply of Cable Fault locator as per specification attached Make:- Tempo/Stanlay Communication Model Sidekick Plus Kit Standard(1155-5001) or equivalent. Inspection by :RITES. I. Inspection by RITES.							
51	NS	10.00	Numbers	8648	86480	AT Par	86480.00	
	Description:- Supply of indoor PA counter communication system Ahuja CCS-2300/Herman/ Bosch/ similar or superior							

S.No	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-NS							19800929.22	
1	NS	3.00	Per Goomty/IBH/ Auto Hut	624714.48	1874143.44	AT Par	1874143.44	
	Description:- Transportation, Installation, Wiring, Testing and Commissioning of Electronic Interlocking System as per RDSO specification no. RDSO /SPN/192/2019 Ver 2.0 with latest with amendments supplied as per item No. 1 & 2 of schedule 'G-2' including transportation from consignee's Depot to the site of work for work at following station as indicated below. This includes installation of Class-A protection as per RDSO specs. It also covers interconnection of EI equipment with relay racks, IPS, Datalogger, Operator & maintenance VDU including fixing of VDU table and other equipments necessary to make the EI system functional for the station. This also includes FAT & SAT testing before NI as per the instruction of RDSO and site engineer. It also includes supply of square - sheet test report I-FAT, FAT & SAT reports, documents required for TSAA approval, etc. for station.							
2	NS	500.00	Numbers	7227.58	3613790.00	AT Par	3613790.00	
	Description:- Supply and installation of Earth Electrode including MS flate for Signalling Equipments as lever frames, aprpratus cases, signal, Relay Rack, Block Instrument etc. (Supply and fixing of each earth electrode as per drawing no. RE/S&T/DRG/Tender/SK/398/94 for apparatus cases, signal post and other equipment as per instruction on earthing of S&T equipment. Laying of earth lead mild steel flat of size 35 mm x 6 mm and fixing of lead M.S.flat to earth electrode and lever frame, signal post and 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'.) Inspection: Consignee Inspection charges: None							
3	NS	25.00	Per Telephone	2464.08	61602.00	AT Par	61602.00	
	Description:- Supply, installation,wiring, testing and commissioning of Magneto Telephone in ASM office, locations, Relay Room, Point location, siding point control location , LC gates or at any other location as per instructions issued by site engineer incharge . Contractor has to supply magneto telephone as per RDSO Specn.No.IRS:TC-79/2000 (Amnd.2) or latest.							
4	NS	110.00	Numbers	2633.39	289672.90	AT Par	289672.90	
	Description:- Shifting and installation of Apparatus Cases on CC foundation on grouted bolts. The item includes fitting of E Type locks and fabrication of slotted angle frame and fixing it inside location box. Railway will supply only location boxes. Apparatus Case Single (Full)							
5	NS	60.00	Numbers	1737.03	104221.80	AT Par	104221.80	
	Description:- Shifting and installation of Apparatus Cases on CC foundation on grouted bolts. The item includes fitting of E Type locks and fabrication of slotted angle frame and fixing it inside location box. Railway will supply only location boxes. Apparatus Case (Half)							
6	NS	3.00	cum	64737.49	194212.47	AT Par	194212.47	
	Description:- Supply and fixing of teakwood planks 25 mm thick duly varnished for keeping batteries, power supply equipment etc. Required size (i.e. length & breadth) will be decided by Engineer at site as per requirement. This item also includes supply and fixing of material like nuts, bolts, screws, nails etc.							

7	NS	200.00	Per Relay	716.65	143330.00	AT Par	143330.00	
	Description:- Addition/Alteration and Fixing of relays in outdoor. It includes supply and fixing of all type of material like relay frame, nut bolts , and PVC wires as per instructions of engineer incharge. All wiring will be done as per standard practice of North Western Railway with neat dressing & threading. . This also includes supply of PVC insulated jumper wires of multi strand 16/.2 mm, tinned in all colours as per RDSO Specn.No.IRS-S-76/89(Amnd.2 or latest). Relays will be supplied by Railways. Inspection: Consignee Inspection charges: None							
8	NS	80.00	Numbers	3775.06	302004.80	AT Par	302004.80	
	Description:- Modification/Alteration of existing DC track circuits covering 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. 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. Inspection: Consignee Inspection charges: None							
9	NS	30.00	Month	19400.00	582000.00	AT Par	582000.00	
	Description:- Provision of fully furnished Camp office at site for SSE/JE for keeping documents, drawing, tool etc and supervision of work.							
10	NS	3.00	Numbers	25000.00	75000.00	AT Par	75000.00	
	Description:- Testing and commissioning of Data logger with 512 digital inputs and 32 Analog inputs as per RDSO Spec No: IRS:S:99/2006 (Amendt.3) or latest							
11	NS	10.00	Numbers	31892.93	318929.30	AT Par	318929.30	
	Description:- Shifting of existing colour light signal with foundation along the track to meet the schedule of dimension required in connection with RE modification							
12	NS	192.00	Numbers	1187.44	227988.48	AT Par	227988.48	
	Description:- Configuration and mapping of gear wise signaling information in remote diagnostic software, testing and Commissioning as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest							
13	NS	192.00	Numbers	5920.14	1136666.88	AT Par	1136666.88	
	Description:- Installation, testing & commissioning of IoT Devices as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest.							
14	NS	6.00	Numbers	29600.68	177604.08	AT Par	177604.08	
	Description:- Installation, testing & commissioning of IoT Devices for IPS Battery Bank as per FRS Document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or							
15	NS	6.00	Numbers	48599.72	291598.32	AT Par	291598.32	
	Description:- Installation of Gateway at station as per FRS document No. RDSO/RDPM/FRS/2021 dated 06.05.2021 or latest.							
16	NS	9.00	Per Unit	8313.50	74821.50	AT Par	74821.50	
	Description:- Dismantling and Re-installation of Track Devices of Digital Axle Counter Coil at Site for Engineering Work like Packing, Rail Changing. Etc. after Installation of Digital Axle Counter at Site by OEM to avoid Damage. (Here per Unit means per DP)							
17	NS	3.00	Numbers	368192.00	1104576.00	AT Par	1104576.00	
	Description:- MTC Networking Software with HASP							

18	NS	3.00	Numbers	250000.00	750000.00	AT Par	750000.00	
	Description:- MTC Networking design, Installation, testing & commissioning							
19	NS	3.00	Numbers	187440.00	562320.00	AT Par	562320.00	
	Description:- Communication Device to suit railway STM availability/OFC Communication							
20	NS	3.00	Numbers	13808.00	41424.00	AT Par	41424.00	
	Description:- Ethernet LAN Cable-CAT 5e/6e (Coils of 90 Mtr)							
21	NS	3.00	Numbers	58904.00	176712.00	AT Par	176712.00	
	Description:- DC-DC Converter (230V/24V) Inspection Agency:-Consignee							
22	NS	48.00	Month	54000.00	2592000.00	AT Par	2592000.00	
	Description:- Monthly Basis Cab & Taxi Hiring Services- MUV:- 2500 Km							
23	NS	72000.00	Kilometre	8.64	622080.00	AT Par	622080.00	
	Description:- Extra per KM charge							
24	NS	2.00	Numbers	298462.02	596924.04	AT Par	596924.04	
	Description:- Supply, Fabrication, Installation and Fixing of panel operator console with arrangement to fix upto 55" VDUs- 02 nos, reset boxes and other S&T gadgets, This shall be made of not less than 18mm thick plywood/ novapan of better material (as per requirement of Railways) with storage facility of approved colours with contractors material, lead, lift and manpower as per instructions of engineer incharge and as per enclosed drawing, Modification in size & layout is permissible as per site & room requirement. Finishing work to be done as per instruction of engineer incharge. Inspection:- Consignee							
25	NS	3.00	Numbers	15000.00	45000.00	AT Par	45000.00	
	Description:- Installation, Testing and commissioning of Data concentrator							
26	NS	100.00	Running Metre	21.62	2162.00	AT Par	2162.00	
	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.							
27	NS	500.00	Square Foot	70.00	35000.00	AT Par	35000.00	
	Description:- Preparation, supply and fixing of flex banner board on iron frame for displacing Do & Don't. Yard layout at a glance etc. in SM room, battery room, IPS room, maintenance room etc.							
28	NS	270.00	Numbers	13992.16	3777883.20	AT Par	3777883.20	
	Description:- Installation, Testing and Commissioning of Multi Section Digital Axle Counter (MSDAC) Complete set with all accessories Consisting of complete indoor and outdoor equipment including reset box and monitoring console as per RDSO Specification No. RDSO/SPN/176/2013 (ver. 3) with latest ammendmend/revision of required track section. It includes transportation to SSE depot and from SSE depot to site (1 Number = 1 DP). Note: It includes supply of HDPE pipe for laying of transmitter and receiver cable, digging of trench under track upto location/mushroom housing. All other accessories required for commissioning will be provided by the contractor. ABS scheme will be as per letter no. SG/42/NWR/HQ/Vol VII dtd. 31.05.2022							
29	NS	2.00	Station	616645.59	1233291.18	AT Par	1233291.18	
	Description:- Re-designing of EI program, testing and commissioning in connction with Phase work of Double line.							
30	NS	3.00	Numbers	8495.54	25486.62	AT Par	25486.62	
	Description:- Testing and commissioning of led indication system with indication, buzzer and acknowledgment button up to 6 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 by Consignee.							

31	NS	3000.00	Metre	178.18	534540.00	AT Par	534540.00	
	Description:- Supply and transportation of self lubricated HDPE pipe of 50 mm inner dia and 63 mm outer dia .							
32	NS	6.00	Numbers	20890.29	125341.74	AT Par	125341.74	
	Description:- Installation, Wiring, Testing and commissioning of way station station control equipment as per RDSO specification No. RDSO/SPN/TC/66/2007 with amendment-2, including latest amendment with necessary mounting arrangement on composite rack or wall as decided by site engineer. It shall be 48V DC operated provide to give connect to atleast 4 stations telephone and have a facility to give more connections by using 3 way amplifier.(Installation, Wiring, Testing and commissioning of way side equipments on the rack or wall as per station wise. (This includes supply of all materials for execution of work except way side equipment which will be procured by Railway against other item.) Inspection: Consignee Inspection charges: None							
33	NS	30.00	Numbers	440.96	13228.80	AT Par	13228.80	
	Description:- Installation of push button telephone Pulse/Tone switchable telephone set with redial, mute, pause, flash tone, pulse facility as per TEC spec No. GR/TEL-02/04 Sept 02 with amendment 2, including latest amendment.(Installation of DTMF/way side telephone in all stations or advice by site engineer. This includes supply and fixing of DP, PVC channel, telephone bracket and laying/termination of switch board cable.) Inspection: Consignee Inspection charges: None							
34	NS	22.00	Numbers	44310.09	974821.98	AT Par	974821.98	
	Description:- Supply ,installation ,Testing & Commissioning of 4K UHD Bullet type IP Camera along with the mount .all the accessories and fixing material including mount required for this installation are to be supplied by contractor within the same cost as per RDSO SPEC. NO. RDSO/SPN/TC/65/2021/Version 6.0 or latest.							
35	NS	3.00	Numbers	49902.06	149706.18	AT Par	149706.18	
	Description:- Supply installation ,testing, wiring and commissioning of Full HD Resolution large format display LED Monitor Screen size 55" (inch) or large as per RDSO specification no.RDSO/SPN/TC/65/2021/Version 6.0 or latest.							
36	NS	6.00	Numbers	18856.92	113141.52	AT Par	113141.52	
	Description:- Supply and Installation Surveillance Hard Disc of surveillance harddisk drive of 6 TB Capacity with 64 MB cach and SATA 6 Gb/s interface for DVR/NVR Of standered make like WD or superior 6TB. Inspection: Consignee Inspection charges: Nil							
37	NS	3.00	Numbers	55542.11	166626.33	AT Par	166626.33	
	Description:- Supply, Installation, Testing & commissioning of 32 Channel NVR with 4K Support and 4HDD 32 IP Channel input ; HDMI,I/I Audio I/O and 2/I Alarm I/O; 12 MP,8 MP,5MP,3MP,2MP,1080 P,DI & CIF Recording Resolution ; 5x4K/16X 3MP/24X1080P/54X720 64XD1 Decoding ; 4 SATA HDD Support (10 TB Capacity per slot,Hard disk not include); save storage space with adaptive recording & camera wise recording retention ; SMS & Email notification /calling from mobile application ; 512 mbps throughput-256 uplink,256 Down link cascading : built in CMS to monitor manage multiple NVRS; ONVIF and major camera brand support Slot64 IP Channel Inputs: Inspection: Consignee Inspection charges: Nil							
38	NS	4.00	Numbers	15813.89	63255.56	AT Par	63255.56	
	Description:- Supply,installation,testing and commissioning of modem E-1G 703 and V-35 as per RDSO Specification RDSO/SPN/TC/80/2008,Rev.0.0 or latest,of Dax Networks/signus make or similar or reputed make.							
39	NS	2000.00	Metre	8.50	17000.00	AT Par	17000.00	
	Description:- Fixing of PVC Conduit pipes 25 mm dia with all required fixing accessories (such as bends,metal clamp,fixture etc as per instruction by consignee.							

	NS	8000.00	Metre	23.27	186160.00	AT Par	186160.00	
40	Description:- Laying of OFC/Power cable/CAT-6 cable through HDPE pipe/casing capping/fall ceiling with laying/fixing of HDPE pipe/casing capping for IP Based video surveillance system and for connecting/interfaces various components and system integration. All materials for jointing and termination of power cable/CAT-6 cable as per site requirement are to be supplied by contractor. This item also include supply of RJ-45 connector with cap for terminating CAT-6 cable and supply and installation of power board with 4 points (3 nos 5 amp sockets and 1 nos 50 amp socket)as per site requirement.							
41	NS	8.00	Numbers	5074.99	40599.92	AT Par	40599.92	
	Description:- Installation,Testing,and commissioning of 8/ 24 port layer-3/Layer-2 switch Payment Term-100% after execution							
42	NS	6.00	Numbers	24632.62	147795.72	AT Par	147795.72	
	Description:- Installation of IP MPLS Router and switches,with power distribution panel and all accessories in the rack 19 inch 42 u,DDF ,Aluminium runway ladder,patch chord etc.and their testing and commissioning.this include all E1s on DDF,Connection of pigtails,optical patch chord and 48 volt equipments confirming with the approved system design including end to end testing for realization of optical fiber system.this also include supply of all as made document for the entire section (six copies)plus technical maintainance and installation manual for IP MPLS ,NMS ,Charger and power supply unit with OEM Certificate.per station							
43	NS	10.00	Man-Week	18474.46	184744.60	AT Par	184744.60	
	Description:- Training of railway staff and officers at the factory premises/Rly site of manufactureer of IP MPLS Document or at a reputed training instition as approved by railway executive incharge.(travel expenses will be born by the railway)							
44	NS	3.00	Numbers	1467.52	4402.56	AT Par	4402.56	
	Description:- Writing work of cable termination details of 6 Quad,OFC,PIJF Cables and Equipment details at OFC Room/Cable hut and station building and wherever necessary as per direction of engineer in charge per station.							
45	NS	40.00	Numbers	12752.20	510088.00	AT Par	510088.00	
	Description:- Supply, preparation, splicing and installation of straight joint for 48 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC No. TEC/GR/TX/FTP-01/03/May-2010 or latest. Splice losses in no case should be more than 0.1 dB.							
46	NS	20.00	Numbers	24363.18	487263.60	AT Par	487263.60	
	Description:- Supply, installation and complete wiring 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. TEC/GR/TX/FTP- 01/03/May-2010 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. This items includes patch chord as per site requirement.							
S.No	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit

Schedule SOR-Items							123847674.15	
	01010200	1.00	Station	9648353.38	9648353.38	AT Par	12060441.72	
1	<p>Description:- Design, Manufacture & Supply of Electronic Interlocking (EI) System (with centralized arrangement) for 4 (FOUR) Line stations 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. 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 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</p>							
	01010300	1.00	Station	11552759.86	11552759.86	AT Par	14440949.82	
2	<p>Description:- Design, Manufacture & Supply of Electronic Interlocking (EI) System (with centralized arrangement) for 5 Line (five line) stations 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. 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</p>							
	01010500	2.00	Station	499771.58	999543.17	AT Par	1249428.96	
3	<p>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</p>							
	01010600	2.00	Lot	4283162.94	8566325.87	AT Par	10707907.34	
4	<p>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.</p>							
5	01010900	2.00	Station	69514.18	139028.37	AT Par	173785.46	

	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						
6	01011500	2.00	Numbers	327871.36	655742.72	AT Par	819678.40
	Description:- Supply of embedded fanless PC based VDU control 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 42 inch. Note: (i) Technical requirements shall be mentioned in the tender document. (ii) One revolving chair should be supplied with control terminal. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply.						
7	01011600	2.00	Numbers	81967.84	163935.68	AT Par	204919.60
	Description:- Installation, wiring, testing and commissioning of embedded fanless PC based VDU control 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 . Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
8	01011700	1.00	Numbers	308619.55	308619.55	AT Par	385774.44
	Description:- Supply 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 42 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: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
9	01011800	1.00	Numbers	77154.89	77154.89	AT Par	96443.61
	Description:- Installation, wiring, testing and commissioning 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 . Note: (i) Technical requirements shall be mentioned in the tender document. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
10	01011900	11.00	Numbers	16685.73	183543.01	AT Par	229428.76
	Description:- Supply of offline domestic sine wave type inverter of 1000VA or above with suitable rating tubular batteries and UPS make of Su-KAM, Luminous, Microtek or other reputed brand for the backup of VDUs of EI. Inspection: Consignee Inspection charges: None Payment terms:100% after Supply.						
11	01012000	11.00	Numbers	4171.43	45885.75	AT Par	57357.19
	Description:- Installation, testing and commissioning of offline domestic sine wave type inverter of 1000VA or above with suitable rating tubular batteries and UPS make of Su-KAM, Luminous, Microtek or other reputed brand for the backup of VDUs of EI. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
12	01012100	5.00	Station	2878.90	14394.48	AT Par	17993.10
	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.						
13	01012200	5.00	Station	3582.54	17912.72	AT Par	22390.90

	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.							
14	01012300	50.00	Set	142.82	7140.80	AT Par	8926.00	
	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.							
15	01011100	2.00	Set	100598.94	201197.87	AT Par	251497.34	
	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							
16	01013000	300.00	Per Relay	419.28	125784.00	AT Par	157230.00	
	Description:- Addition/alteration in existing relay room wiring. It includes supply of PVC insulated indoor Railway signalling cable @ 40<45@Core/40-Core) of (1/0.6) sqmm as per RDSO Spec.No.IRS/S-76/89 (Amnd.2 or latest) for wiring between relay room and SM's/Panel room & Relay room to DP in SM office for block working. This also includes supply of PVC insulated jumper wires of multi strand 16/.2 mm, tinned in all colours as per RDSO Specn.No.IRS-S-76/89(Amnd.2 or latest). This item will include bringing all the power supplies from power room to respective bus bars on relay racks by using 10/6 sqmm copper flexible wire as per instructions of engineer incharge. This will include wiring between control panel and relay room if required. All wiring will be done as per standard practice of North Western Railway with neat dressing & threading. The item includes supply & wiring of tag block, fuse with bases(G-Type and ND Type) and all other related material required for complete indoor wiring in relay room. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.							

17	01011200	60.00	Man-Days	884.98	53099.04	AT Par	66373.80	
	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							
18	01012400	7.00	Set	18389.50	128726.53	AT Par	160908.16	
	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.							
19	01011300	4.00	Station	140773.88	563095.52	AT Par	703869.40	
	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 incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). The technical specifications are as per ANNEXURE 1.13 of SOR. Inspection: Consignee Inspection charges: None Payment terms: 100% after execution							
20	02010200	2.00	Numbers	388787.90	777575.81	AT Par	971969.76	
	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	2.00	Numbers	97196.98	194393.95	AT Par	242992.44	

21	<p>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</p>							
22	0201100 0	3.00	Set	31297.94	93893.81	AT Par	117367.26	
	<p>Description:- Supply of Failure Analysis & Fault Diagnostic software for data logger upto 4096 digital inputs at a station. Inspection: Consignee, Inspection charges: None Payment terms:100% after supply.</p>							
23	0201110 0	3.00	Set	7824.48	23473.44	AT Par	29341.80	
	<p>Description:- Installation and commissioning of Failure Analysis & Fault Diagnostic software for data logger upto 4096 digital inputs. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning</p>							
24	0201140 0	3.00	Numbers	131167.50	393502.49	AT Par	491878.11	
	<p>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</p>							
25	0201150 0	2.00	Numbers	32791.87	65583.74	AT Par	81979.68	
	<p>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</p>							
26	0201200 0	2.00	Numbers	21000.00	42000.00	AT Par	52500.00	
	<p>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.</p>							
27	0101140 0	20.00	Man-Days	877.70	17554.08	AT Par	21942.60	
	<p>Description:- Training of Officers 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</p>							
28	0301140 0	6.00	Kg	140.22	841.30	AT Par	1051.62	

	Description:- Supply of Sealing wire used for sealing of signaling relays & equipments. Inspection authority:- Consignee Inspection charges:-None Payment Terms:- 100% after supply.						
	04010100	5.00	Kilometre	4650.61	23253.04	AT Par	29066.30
29	Description:- Supply of PVC insulated multi strand, single core copper conductor of size 16/0.2 mm (0.5sqmm) as per IS 694:2010 and RDSO Specn.No.IRS:S-76/89 (Amnd-3) or latest. Each coil should be of 100/200/500 meters length. Colour of the wire which is required will be specified by the Engineer incharge. 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						
	04010200	500.00	Metre	29.10	14548.00	AT Par	18185.00
30	Description:- Supply of 1 x 6 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 84 conductor each dia 0.30 +/- 0.01 with insulation thickness of 0.8 mm and nominal conductor resistance of 3.3 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. 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						
	04010300	500.00	Metre	46.02	23012.00	AT Par	28765.00
31	Description:- Supply of 1 x 10 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 140 conductor each dia 0.30 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.91 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. 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						
	04010400	500.00	Metre	79.56	39780.00	AT Par	49725.00
32	Description:- Supply of 1 x 16 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 127 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.21 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. 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						
	04010500	500.00	Metre	124.23	62116.00	AT Par	77645.00
33	Description:- Supply of 1 x 25 Sqmm (Red/Black) multi strand copper power wire as per IS:694:2010 or latest, 197 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.78 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. 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						
34	04010600	500.00	Metre	141.54	70772.00	AT Par	88465.00

	Description:- Supply of 1 x 35 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 277 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.554 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. 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						
	0401070 0	6.00	Station	30505.72	183034.32	AT Par	228792.90
35	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/IEI 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						
	0401110 0	7.00	Numbers	37115.23	259806.62	AT Par	324758.28
36	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						
	0401120 0	7.00	Numbers	9278.81	64951.66	AT Par	81189.57
37	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						
	0401130 0	12.00	Numbers	18185.93	218231.14	AT Par	272788.92
38	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						
39	0401140 0	12.00	Numbers	6949.70	83396.35	AT Par	104245.44

	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.							
40	04011500	40000.00	Numbers	69.93	2797120.00	AT Par	3496400.00	
	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.							
41	04011600	900.00	Numbers	122.38	110145.60	AT Par	137682.00	
	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.							
42	04011701	300.00	Numbers	48.89	14666.40	AT Par	18333.00	
	Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 0.6 A							
43	04011702	300.00	Numbers	51.53	15458.40	AT Par	19323.00	
	Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 1.6 A							
44	04011801	400.00	Numbers	16.18	6473.60	AT Par	8092.00	
	Description:- Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 0.6 A							
45	04011802	400.00	Numbers	14.58	5830.40	AT Par	7288.00	
	Description:- Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 1.6 A							
46	04011900	1000.00	Numbers	43.71	43712.00	AT Par	54640.00	
	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.							
47	04012400	3.00	Kilometre	123554.86	370664.59	AT Par	463330.74	
	Description:- Supply of PVC insulated Railway Signaling multi-core Indoor Cable 60core (0.6mm dia) conforming to IRS:76/89(Amd3) 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							

	0401250 0	40000.00	Per Conductor	6.77	270720.00	AT Par	338400.00	
48	Description:- Termination of Outdoor Cables (Main Cables /tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engg. incharge of the work. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution							
49	0401280 1	9500.00	Numbers	43.70	415188.00	AT Par	518985.00	
	0401280 2	9500.00	Numbers	8.19	77824.00	AT Par	97280.00	
50	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.							
	0401280 3	1000.00	Numbers	8.19	8192.00	AT Par	10240.00	
51	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.							
	0401280 4	150.00	Metre	85.58	12837.60	AT Par	16047.00	
52	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.							
	0401280 5	9500.00	Numbers	12.74	121068.00	AT Par	151335.00	
53	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							
54	0401290 0	200.00	Numbers	40.06	8012.80	AT Par	10016.00	

	Description:- Supply of Indicative type Fuse base/ holder with cap, suitable to G type fuse of capacity 0.63A - 3.0A. (System, Rapid, Malnad or RBCO make or similar). Inspection: Consignee Inspection Charges: None Payment Terms: 100% on Supply							
55	0401300	200.00	Numbers	14.57	2913.60	AT Par	3642.00	
	Description:- Supply of Indicative type Fuse suitable to G type fuse base/holder of capacity 0.63 A - 3.0 A (System, Rapid, Malnad or RBCO make or similar). Inspection: Consignee Inspection Charges: None Payment Terms: 100% on Supply							
56	0401310	200.00	Numbers	27.31	5462.40	AT Par	6828.00	
	Description:- Supply of Indicative type Fuse Without holder 6A (System, Rapid or Malnad or RBCO make or similar) as per IRS:S-80/92 Inspection: Consignee Inspection Charges: None Payment Terms: 100% on Supply							
57	0401340	40.00	Per Unit	23422.10	936883.84	AT Par	1171104.80	
	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)							
58	0401350	10.00	Per Unit	38628.02	386280.24	AT Par	482850.30	
	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)							
59	0401360	50.00	Per Unit	708.35	35417.60	AT Par	44272.00	
	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)							
60	0501140	2.00	Numbers	82759.90	165519.81	AT Par	206899.76	

	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							
61	05012400	2.00	Numbers	97877.032	195754.064	AT Par	244692.58	
	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							
62	05012601	500.00	Numbers	1654.344	827172	AT Par	1033965.00	
	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							
63	05012701	450.00	Numbers	296.816	133567.2	AT Par	166959.00	
	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							
64	05011402	3.00	Numbers	29273.752	87821.256	AT Par	109776.57	
	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							
65	05015700	6.00	Numbers	1912.512	11475.072	AT Par	14343.84	
	Description:- Supply of maintenance stand for relay room / battery room as per samples as per samples /drawings approved by the site engineer incharge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply.							
66	05014500	15.00	Numbers	1834.616	27519.24	AT Par	34399.05	

	Description:- Supply of Class 'C' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V AC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
67	05014600	15.00	Numbers	3870.448	58056.72	AT Par	72570.90
	Description:- Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
68	05014800	15.00	Numbers	4331.152	64967.28	AT Par	81209.10
	Description:- Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 24V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
69	05015000	45.00	Numbers	196.664	8849.88	AT Par	11062.35
	Description:- Installation and commissioning of various classes of lightening cum surge protection device as decided by site engineer. This include supply and fixing of any other material required to complete the installation & commissioning of lightening cum surge protection device. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
70	05015800	5.00	Numbers	53593.68	267968.4	AT Par	334960.50
	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.						
71	06010300	60.00	Numbers	22068.808	1324128.48	AT Par	1655160.60

	<p>Description:- Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used. Item includes fixing 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 : (i) Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box / cable hut as per extent practice on NWR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point layout i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.</p>							
72	06010400	20.00	Set	1032.488	20649.76	AT Par	25812.20	
	<p>Description:- Supply of Point insulation Complete set as per RDSO/SPN/168/2005 for 1. Switch bracket 'D' bracket insulation for IRS point machine - One set comprises of (a) Side plate LH to Drg.No.S-3266 - 1 No. (b) Side plate RH to Drg.No.S-3265 - 1 No. (c) Insulating bush to Drg.No.S-3199 - 4 Nos. (d) Insulating washer to Drg.No.S-8640 - 4 Nos., 2. Split-Stretcher bar 2.1 Insulation for Leading stretcher bars (BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leading insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO Drg.No.T-10371 - 6 Nos. 2.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No.T-10368 - 6 Nos. (c) Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos & 3. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as per RDSO drg.No.T-10371 - 6 Nos. 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</p>							
73	06010500	20.00	Set	925.048	18500.96	AT Par	23126.20	
	<p>Description:- Supply of Gauge Tie plate insulation as per RDSO/SPN/168/2005 as per RDSO drg No: T-10372Alt2, T-10368, T-10371Alt2, T-15083/88/Alt2 & T-11690/Alt2 and as per RDSO/SPN/168/2005 with latest amendments as applicable. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as per RDSO drg.No.T-10371 - 6 Nos. 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</p>							
74	06010600	10.00	Set	5463.792	54637.92	AT Par	68297.40	
	<p>Description:- Supply of Ground connections, complete set suitable for IRS type / approved point Machine for ordinary turnout with tongue attachment insulation and other insulation as per RDSO Drg. S/3361@ 47>47@ 63 (for IRS type point machine) or RDSO Drg No.SA-9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after confirmation from Railway engineer as per site condition /type of machine/turnout. 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</p>							
75	06010700	5.00	Set	4678.048	23390.24	AT Par	29237.80	

	Description:- Supply of Ground connections, complete set suitable for IRS type/approved point Machine for derail switch with tongue attachment insulation as per RDSO Drg. S/3361@ 47>47?40@for IRS type point machine) or RDSO Drg No. SA 9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after Confirmation from Railway engineer as per latest site condition /type of machine/turnout. 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							
76	06011400	20.00	Set	308.904	6178.08	AT Par	7722.60	
	Description:- Supply of William Stretcher Insulation Set (complete) as per RDSO/SPN/168/2005 with insulating bush and washer to suit point layout and conforming to RDSO Drg.No.T-10372 or latest, T-10368 or latest and T- 10371 or latest. 1.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leadingg insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 1.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos 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							
77	07010100	135.00	Numbers	3604.096	486552.96	AT Par	608191.20	
	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.							
78	07010200	135.00	Numbers	1151.336	155430.36	AT Par	194287.95	
	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.							
79	07010300	135.00	Per Track Circuit	5083.208	686233.08	AT Par	857791.35	
	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	135.00	Per Track Circuit	6362.32	858913.2	AT Par	1073641.50	

80	<p>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 supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs Installation 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. Along with 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 along with 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.</p>							
81	07010500	750.00	Numbers	1422.72	1067040	AT Par	1333800.00	
82	07010600	750.00	Numbers	1052.512	789384	AT Par	986730.00	

	Description:- Erection, Fitting and Rail connection of Track Lead Junction Box on two supports (FRP stumps) with contractor's fixing material .This will include drilling of holes for track lead/side connections on rail. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.							
83	07010700	300.00	Numbers	3279.152	983745.6	AT Par	1229682.00	
	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.							
84	07010800	1500.00	Numbers	4.552	6828	AT Par	8535.00	
	Description:- Supply of Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.							
85	07011100	20.00	Numbers	205.768	4115.36	AT Par	5144.20	
	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.							
86	07013000	1.00	Set	101494.848	101494.848	AT Par	126868.56	
	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.							
87	07013300	1.00	Numbers	27912.512	27912.512	AT Par	34890.64	
	Description:- Supply of Automatic Media changeover system of Modem working on redundant channel for data transmission on OFC/Quad/ microwave radio, for seamless operation of UFSBI over multiple media. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
88	07012302	1.00	Set	70597.712	70597.712	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.							
89	08010400	300.00	Numbers	143.112	42933.6	AT Par	53667.00	
	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.							
90	08010500	85.00	Numbers	8633.168	733819.28	AT Par	917274.10	

	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							
91	08010600	18.00	Numbers	3569.992	64259.856	AT Par	80324.82	
	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							
92	08010700	5.00	Numbers	3468.928	17344.64	AT Par	21680.80	
	Description:- Supply of Offset brackets for Shunt Signal, made of tubular steel, outer diameter 89 mm, thickness of pipe 4.5 mm. horizontal length of pipe 324 mm & vertical length of pipe 324 mm with fixing arrangement on Shunt Signal post as per Drawing No SW/354/I 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							
93	08010801	18.00	Numbers	2582.12	46478.16	AT Par	58097.70	
	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.							
94	08010802	67.00	Numbers	1749.944	117246.248	AT Par	146557.81	
	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.							
	08010900	24.00	Numbers	21414.488	513947.712	AT Par	642434.64	

95	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							
96	08011000	10.00	Numbers	22434.224	224342.24	AT Par	280427.80	
	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							
97	08011100	60.00	Numbers	23963.832	1437829.92	AT Par	1797287.40	
	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signalling suitable for RE area FOUR Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. 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							
98	08011200	20.00	Set	3437.976	68759.52	AT Par	85949.40	
	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							
99	08011300	20.00	Numbers	1423.992	28479.84	AT Par	35599.80	
	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.							

100	08011400	30.00	Numbers	2686.824	80604.72	AT Par	100755.90	
	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							
101	08011500	30.00	Numbers	1574.216	47226.48	AT Par	59033.10	
	Description:- Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.							
102	08011600	3.00	Numbers	15868.752	47606.256	AT Par	59507.82	
	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							
103	08011700	3.00	Numbers	16392.28	49176.84	AT Par	61471.05	
	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							
104	08011800	5.00	Numbers	19241.176	96205.88	AT Par	120257.35	
	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							
105	08011900	2.00	Numbers	22090.064	44180.128	AT Par	55225.16	
	Description:- Supply of Junction route indicator unit 4 way (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							
106	08012300	13.00	Numbers	472.536	6142.968	AT Par	7678.71	
	Description:- Fixing of Junction type Route Indication 1-Way/2-Way/3-Way/4-Way/5-Way/6-Way on the top of the signal post. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.							
107	08012400	8.00	Numbers	2040.384	16323.072	AT Par	20403.84	

	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						
108	08012600	50.00	Numbers	1860.112	93005.6	AT Par	116257.00
	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 contactor. 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.						
109	08012700	3.00	Numbers	1715.344	5146.032	AT Par	6432.54
	Description:- Supply of Stop Board as per RDSO Drg No 7235/B / Block Section Limit Board/Shunting Limit Board as per RDSO Drg. No. SA2375 (Adv.) . This includes Painting and retro reflective arrangement should be as per SEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
110	08012800	8.00	Numbers	3710.208	29681.664	AT Par	37102.08
	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.						
111	08012900	11.00	Numbers	267.68	2944.48	AT Par	3680.60
	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.						
112	08013000	90.00	Numbers	978.768	88089.12	AT Par	110111.40
	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.						
113	08013100	10.00	Numbers	4070.12	40701.2	AT Par	50876.50
	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.						
114	08013200	90.00	Numbers	7489.2	674028	AT Par	842535.00

	<p>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.</p> <p>Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.</p>							
115	08013300	50.00	Numbers	5048.208	252410.4	AT Par	315513.00	
	<p>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.</p> <p>Inspection: Consignee</p> <p>Inspection Charges: None. Payment Terms: 100% after installation. ."</p>							
116	09010300	5.00	Set	1365.72	6828.6	AT Par	8535.75	
	<p>Description:- Supply of Yellow Retro reflective sheet for LC Boom prismatic grade reflective sheets of size 305 x 290 mm one set consist 18 pieces. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% on Supply</p>							
117	10011500	2.00	Numbers	27648.544	55297.088	AT Par	69121.36	
	<p>Description:- Supply of Panel cum Block Instrument table complete as per approved drawing . It includes any modification to it if required by Engineer-in-charge at site. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>							
118	10011700	5.00	Numbers	40133.08	200665.4	AT Par	250831.75	
	<p>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</p> <p>Inspection: RDSO Inspection</p> <p>Charges:Borne by Railways Payment Terms: 100% after Supply.</p>							
119	10011800	5.00	Numbers	10033.272	50166.36	AT Par	62707.95	
	<p>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</p> <p>Inspection Charges: None Payment Terms: 100% after commissioning.</p>							
120	10012100	60.00	Numbers	2189.96	131397.6	AT Par	164247.00	

	<p>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.</p> <p>Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.</p>							
121	1001220	60.00	Numbers	547.488	32849.28	AT Par	41061.60	
	<p>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</p>							
122	1001230	10.00	Numbers	2292.352	22923.52	AT Par	28654.40	
	<p>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.</p>							
123	1001240	10.00	Numbers	573.088	5730.88	AT Par	7163.60	
	<p>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</p>							
124	1001270	750.00	Metre	479.408	359556	AT Par	449445.00	
	<p>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.</p>							
125	1001280	750.00	Metre	119.856	89892	AT Par	112365.00	
	<p>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.</p>							
126	1001290	10.00	Numbers	20151.872	201518.72	AT Par	251898.40	
	<p>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.</p>							
127	1001300	10.00	Numbers	5037.968	50379.68	AT Par	62974.60	
	<p>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.</p>							
128	1001310	5.00	Set	92188.64	460943.2	AT Par	576179.00	
	<p>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.</p>							
129	1001320	5.00	Set	23047.16	115235.8	AT Par	144044.75	

	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						
130	10013300	10.00	Numbers	5148.736	51487.36	AT Par	64359.20
	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.						
131	10013400	10.00	Numbers	1287.184	12871.84	AT Par	16089.80
	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.						
132	10013500	5.00	Lot	21859.488	109297.44	AT Par	136621.80
	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.						
133	10013600	5.00	Lot	5464.872	27324.36	AT Par	34155.45
	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.						
134	10013700	30.00	Numbers	4241.36	127240.8	AT Par	159051.00
	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.						
135	10010600	1.00	Numbers	45962.048	45962.048	AT Par	57452.56
	Description:- Supply of professional LED VDU monitor of display size 42 inch. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
136	10010700	1.00	Numbers	244425.6	244425.6	AT Par	305532.00
	Description:- Supply of commercial grade operator VDU of size 55" full HD, HDMI/DVI connectivity , inbuilt speaker etc.(for this item prior approval of engineer incharge required in written) Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
137	10011100	4.00	Numbers	2014.896	8059.584	AT Par	10074.48
	Description:- Supply of Office Chair make Godrej CH-7B or similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
138	10011200	4.00	Numbers	6144.832	24579.328	AT Par	30724.16
	Description:- Supply of Office Revolving Chair Godrej Make Model No.9u02r Bravo Or Similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						

139	10011300	3.00	Numbers	12030.176	36090.528	AT Par	45113.16	
	Description:- Supply of Office table with laminated top with three drawers on left hand side and one locker on the right hand side. Olive brown with duplicate keys.Make: Godrej Model T-9 (136.5 cmX68cmX 75cm)or Superior of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.							
140	10011400	9.00	Numbers	13017.136	117154.224	AT Par	146442.78	
	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.							
141	07012301	1.00	Set	83460.056	83460.056	AT Par	104325.07	
	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.							
142	08013400	20.00	cum	3459.08	69181.6	AT Par	86477.00	
	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)							
143	09010500	5.00	Set	20103.144	100515.72	AT Par	125644.65	
	Description:- Supply of (02) nos. electrical lifting barrier booms of 9.76 meter each as per DRG RDSO/S 11600 . The material will be as per RDSO Specn.No.RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Consignee subject to procurement from RDSO approved supplier. Inspection Charges: None. Payment Terms: 100% after Supply							
144	11010100	210.00	Numbers	11956.424	2510849.04	AT Par	3138561.30	
	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.							
145	11010200	210.00	Numbers	831.272	174567.12	AT Par	218208.90	
	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.							
146	11010300	90.00	Numbers	7551.52	679636.8	AT Par	849546.00	

	<p>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</p> <p>Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.</p>							
147	11010400	90.00	Numbers	506.224	45560.16	AT Par	56950.20	
	<p>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.</p>							
148	11010801	210.00	Numbers	5511.136	1157338.56	AT Par	1446673.20	
	<p>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</p>							
149	11010802	90.00	Numbers	4207.328	378659.52	AT Par	473324.40	
	<p>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</p>							
150	11010900	220.00	Numbers	7650.76	1683167.2	AT Par	2103959.00	
	<p>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.</p>							
151	11011100	12.00	Numbers	3718.4	44620.8	AT Par	44620.8	
	<p>Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. 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.</p>							
152	11011201	220.00	Numbers	1875.592	412630.24	AT Par	412630.24	
	<p>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)</p>							

	1101120 2	65.00	Numbers	547.2	35568	AT Par	35568	
153	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)							
	1101130 0	40000.00	Numbers	10.016	400640	AT Par	400640	
154	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.							
	1101140 0	950.00	Numbers	47.344	44976.8	AT Par	44976.8	
155	Description:- Supply of Round head type non deteriorating type low voltage cartridge fuse as per Spec No IRS/S/78/92 with latest amendments 2A/4A/6A capacity. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after supply.							
	1101190 0	100.00	Numbers	1621.568	162156.8	AT Par	162156.8	
156	Description:- Supply of Miniature 'E' type lock complete with keys as per RDSO Drg. No. SA 3473, 3373 & spec. IRS(S) 30/64. Ward to be specified by Engineer - in - charge. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after supply.							
	1101200 0	30.00	Numbers	1754.56	52636.8	AT Par	52636.8	
157	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.							
	1201010 1	70.00	Numbers	2805.192	196363.44	AT Par	196363.44	
158	Description:- Supply of Rapid Joint LS3, suitable for cable Jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point more than 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply Cable Size 6C x 1.5 Sq. mm.							
	1201010 2	120.00	Numbers	3903.224	468386.88	AT Par	468386.88	
159	Description:- Supply of Rapid Joint LS3, suitable for cable Jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point more than 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply Cable Size 12C x 1.5 Sq. mm.							
160	1201010 4	4.00	Numbers	4160.896	16643.584	AT Par	16643.584	

	Description:- Supply of Rapid Joint LS3, suitable for cable Jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point more than 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply Tools for installation of Rapid Cable Joint kit.						
161	12010200	800.00	Metre	608.528	486822.4	AT Par	486822.4
	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.						
162	12010300	800.00	Metre	152.136	121708.8	AT Par	121708.8
	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.						
163	12010601	1000.00	Metre	11.84	11840	AT Par	11840
	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)						
164	12010602	1000.00	Metre	25.496	25496	AT Par	25496
	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)						
165	12010700	500.00	Numbers	1438.56	719280	AT Par	719280
	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						
166	12010800	500.00	Numbers	288.624	144312	AT Par	144312

	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 50 mm outer dia, & 38 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, vender 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						
167	12010900	1500.00	Metre	306.776	460164	AT Par	460164
	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						
168	12011600	7500.00	Metre	23.672	177540	AT Par	177540
	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.)						
169	12011700	100.00	Numbers	542.648	54264.8	AT Par	54264.8
	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.						
170	12011800	500.00	Numbers	266.768	133384	AT Par	133384
	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.						
171	12011900	1200.00	Metre	17.296	20755.2	AT Par	20755.2
	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)						
172	12012000	60.00	Numbers	1718.984	103139.04	AT Par	103139.04
	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						
173	12012100	250.00	Numbers	925.96	231490	AT Par	231490

	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						
174	12012200	2000.00	Metre	962.376	1924752	AT Par	1924752
	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.						
175	12012300	2000.00	Metre	98.192	196384	AT Par	196384
	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						
176	12012500	700.00	Numbers	262.944	184060.8	AT Par	184060.8
	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						
177	12012600	700.00	Numbers	65.736	46015.2	AT Par	46015.2
	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						
178	12012700	100.00	Numbers	193.024	19302.4	AT Par	19302.4
	Description:- Supply of galvanized cable markers as per Drg.No.CSTE/NWR/SOR/15. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
179	12012800	100.00	Numbers	48.256	4825.6	AT Par	4825.6
	Description:- Transportation at site and Fixing of galvanized cable markers as per Drg.No.CSTE/NWR/SOR/15. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
180	12012900	250.00	Metre	263.128	65782	AT Par	65782
	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)						
181	12013000	100.00	Numbers	74.656	7465.6	AT Par	7465.6
	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						

182	12013100	100.00	Kilometre	74.656	7465.6	AT Par	7465.6	
	Description:- Removal of PRC Sleeper in the way of cable route. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
183	12013200	250.00	Numbers	289.536	72384	AT Par	72384	
	Description:- Transferring of Signaling/Telecom cables from existing Location box to New Location box . The work include breaking/ Dismantling of Existing foundation of locations, excavating and removing / segregating coils of 2C/6C/12C/19C/24C/30C/Quad cables which may be about 10 mtrs. in length. These cables are to be disconnected and removed from the existing location one by one as per the instruction and under the supervision of Railway staff present at site. The cable is then to be inserted and terminated in new location box. The item includes neatly dressing of cable, making wiring tree etc.The material required to dressing /lacing will be arranged by contactor. The work is required to be done systematically and with due precaution during the block or disconnection within the time that may be allowed. The excavation work to be done carefully without damaging the cable to avoid undue failure. (Termination charges will be given separately). Note: Proportionate payment will be made if cable of other length. One No unit = One cable of 10 m length) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
184	12013300	45.00	Kilometre	5488.376	246976.92	AT Par	246976.92	
	Description:- Shifting of Exposed cables. The item includes Removal of exposed cable from existing trench & laying the same in new trenches. Digging, Placing of capping/Half round RCC pipe covered separately. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution							
185	12013400	200.00	cum	117.808	23561.6	AT Par	23561.6	
	Description:- Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetations growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. Taxes, Octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution (Unit is Cubic Meter)							
186	12013700	9500.00	cum	219.424	2084528	AT Par	2084528	
	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)							
187	12013900	250.00	cum	402.432	100608	AT Par	100608	

	<p>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)</p>							
188	12014000	5.00	Numbers	10005.264	50026.32	AT Par	50026.32	
	<p>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</p>							
189	12014100	505000.00	Metre	7.28	3676400	AT Par	3676400	
	<p>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)</p>							
190	12014300	100.00	cum	1592.432	159243.2	AT Par	159243.2	
	<p>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)</p>							
191	13010100	6.00	Numbers	126754.576	760527.456	AT Par	760527.46	
	<p>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.</p>							
192	13010200	6.00	Numbers	31688.648	190131.888	AT Par	190131.89	
	<p>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.</p>							
193	13010300	30.00	Lot	14024.584	420737.52	AT Par	420737.52	

	<p>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.</p>							
194	13010400	30.00	Set	6289.344	188680.32	AT Par	188680.32	
	<p>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 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: 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.</p>							
195	13010700	5.00	Station	121594.376	607971.88	AT Par	607971.88	
	<p>Description:- Provision of Ring Earth for EI system which includes supply of all componenents 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 t o 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.</p>							
	13010800	5.00	Station	30398.592	151992.96	AT Par	151992.96	

196	<p>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.</p>							
197	1301100	4.00	Numbers	35236.488	140945.952	AT Par	140945.95	
	<p>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.</p>							
198	1301110	4.00	Numbers	11157.024	44628.096	AT Par	44628.096	
	<p>Description:- Supply of Professional AC/DC clamp meter 3 ¾ digit , true RMS measurement, For Measurement of DC/AC currents up to 1000A, Voltage up to 600V, resistance up to 40 M and frequency up to 1 MHz with set of leads & carrying case. Model - DCM 39A or equivalent/ higher make Motwane/Stanlay/Fluke/Megger Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>							
199	1301120	4.00	Numbers	67883.568	271534.272	AT Par	271534.27	
	<p>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/Stanlay/Fluke/Megger. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>							
200	1301130	1.00	Numbers	333012.6	333012.6	AT Par	333012.6	
	<p>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.</p>							
201	1301150	4.00	Numbers	6951.536	27806.144	AT Par	27806.144	
	<p>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.</p>							
202	1301160	1.00	Numbers	14930.728	14930.728	AT Par	14930.728	
	<p>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.</p>							
203	1301170	2.00	Numbers	45784.376	91568.752	AT Par	91568.752	

	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.						
204	13011800	2.00	Numbers	7006.72	14013.44	AT Par	14013.44
	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 repudiated make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
205	13011900	1100.00	Numbers	2046.4	2251040	AT Par	2251040
	Description:- Supply and Installation of RFID based Electronic /Pipe marker for S&T Cable with programmable memory for saving the user specific data which can be burried up to depth of 1.5 Meter.make Stanley/3M or Similar Inspection: Consignee Inspection Charges:None Payment Terms:100% after installation.						
206	13012000	2.00	Numbers	304272.632	608545.264	AT Par	608545.26
	Description:- Supply of RFID marker locator with built in GPS module/system , 1.5 M depth range.make Stanley/3M or Similar Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
207	14010200	4.00	Numbers	842.264	3369.056	AT Par	3369.056
	Description:- Supply of seal plier as per sample got approved from site engineer incharge. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
208	14010300	5.00	Numbers	17875.976	89379.88	AT Par	89379.88
	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						
209	14010400	60.00	Numbers	89.552	5373.12	AT Par	5373.12
	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						
210	14010500	60.00	Numbers	275.472	16528.32	AT Par	16528.32
	Description:- Supply of hand cuff lock Godrej or Navtal make size as approved by site engineer. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
211	14010600	5.00	Numbers	1968.224	9841.12	AT Par	9841.12
	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						
212	14010801	80.00	Numbers	203.04	16243.2	AT Par	16243.2
	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways.NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974). Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Apparatus Case Full Size. (Outside & inside)						

	1401080 2	60.00	Numbers	183.92	11035.2	AT Par	11035.2	
213	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways.NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974). Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Apparatus case Half Size. (Outside & inside)							
	1401080 4	40.00	Numbers	280.424	11216.96	AT Par	11216.96	
214	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways.NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974). Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Main Signal Post with Signal Units, Surface base and complete fittings as per North Western Railways standard practice.							
	1401120 0	100.00	cum	467.984	46798.4	AT Par	46798.4	
215	Description:- Dismantling of Concrete foundation/ Demolishing RCC/CC/Stone work /Cutting Tarcarpenting/ CC Flooring/ Precast concrete slab/ Brick work including leading the debries inside Railway limit or outside Railway limit as directed by site in charge. This work to be done by contactors with his own vehicle and labour. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution (the unit is Cubic Meter)							
	1401130 0	2.00	Station	42601.376	85202.752	AT Par	85202.752	
216	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							
	1401170 0	3.00	Station	40501.352	121504.056	AT Par	121504.06	
217	Description:- Complete painting and varnishing work at a station (5/6 or more 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							
218	1401190 0	100.00	Hour	872.472	87247.2	AT Par	87247.2	

	<p>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.</p> <p>Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution</p>						
219	14012700	15.00	Numbers	1464.736	21971.04	AT Par	21971.04
	<p>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</p>						
220	14012800	15.00	Numbers	1377.976	20669.64	AT Par	20669.64
	<p>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</p>						
221	15010100	1525.00	Metre	14.992	22862.8	AT Par	22862.8
	<p>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.</p>						
222	15010200	5.00	Numbers	2653.384	13266.92	AT Par	13266.92
	<p>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.</p>						
223	15010300	5.00	Numbers	1121.12	5605.6	AT Par	5605.6
	<p>Description:- Supply of KRONE Punching tool, Krone or any reputed make only. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.</p>						
224	15010500	50.00	Numbers	757.688	37884.4	AT Par	37884.4
	<p>Description:- Supply of patch chord cable (10 meter long) with FC/PC connectors compatible with SDH equipments as per TEC Specn.No.GR/OFJ-02/01 May 2004 with latest Amendment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.</p>						
225	15011100	110.00	Kilometre	38650.608	4251566.88	AT Par	4251566.9
	<p>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</p>						
226	15011200	110.00	Kilometre	9662.648	1062891.28	AT Par	1062891.3

	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.							
227	15011300	110.00	Kilometre	8643.816	950819.76	AT Par	950819.76	
	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.							
228	15011400	30.00	Numbers	4211.096	126332.88	AT Par	126332.88	
	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.							
229	15011700	6.00	Numbers	5886.944	35321.664	AT Par	35321.664	
	Description:- Supply & Installation of Professional 19" Equipment Racks 12U for housing of network equipment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.							
230	15012000	7.00	Numbers	102011.312	714079.184	AT Par	714079.18	
	Description:- Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 25 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 50 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 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							
231	15012100	6.00	Numbers	2933.28	17599.68	AT Par	17599.68	
	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.							
232	15012300	7.00	Numbers	61622.376	431356.632	AT Par	431356.63	
	Description:- Supply of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.							
233	15012400	6.00	Numbers	15405.592	92433.552	AT Par	92433.552	
	Description:- Installation, wiring, testing & commissioning of 48Volt/200AH 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 Execution.							
234	15012700	4.00	Per Block Section	17056.672	68226.688	AT Par	68226.688	

	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.							
235	15013400	1.00	Numbers	204323.352	204323.352	AT Par	204323.35	
	Description:- Supply of OTDR 32 DB model JDSU MTS8126SR or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
236	15013500	1.00	Numbers	299964.264	299964.264	AT Par	299964.26	
	Description:- Supply of Fusion Splicing Machine model Fujikura FSM-60S or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
237	15013600	1.00	Numbers	139114.056	139114.056	AT Par	139114.06	
	Description:- Supply of Laser source and Power meter. FOD make (Source FOD 2107 and Power meter FOD 1202) or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
238	15013700	5.00	Numbers	986.136	4930.68	AT Par	4930.68	
	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.							
239	15013800	5.00	Numbers	246.536	1232.68	AT Par	1232.68	
	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.							
240	15013900	15.00	Numbers	1570.464	23556.96	AT Par	23556.96	
	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.							
241	15014000	15.00	Numbers	392.616	5889.24	AT Par	5889.24	
	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.							
242	15014500	50.00	Metre	523.816	26190.8	AT Par	26190.8	
	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.							
243	15014600	50.00	Metre	130.952	6547.6	AT Par	6547.6	
	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.							
244	15014700	50.00	Metre	88.696	4434.8	AT Par	4434.8	
	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.							

	15014800	50.00	Metre	22.176	1108.8	AT Par	1108.8	
245	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.							
	15014900	50.00	Numbers	457.568	22878.4	AT Par	22878.4	
246	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.							
	15015000	30.00	Numbers	114.392	3431.76	AT Par	3431.76	
247	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.							
	15015100	25.00	Kilometre	788.384	19709.6	AT Par	19709.6	
248	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.							
	15015400	6.00	Numbers	23498.504	140991.024	AT Par	140991.02	
249	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	6.00	Numbers	5874.624	35247.744	AT Par	35247.744	
250	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.							
	15015600	2.00	Numbers	42676.192	85352.384	AT Par	85352.384	
251	Description:- Supply 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 supply.							

	1501570	2.00	Lumpsum	7238.568	14477.136	AT Par	14477.136	
252	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.							
	1501580	2.00	Numbers	14316.064	28632.128	AT Par	28632.128	
253	Description:- Supply of E1 Optical Fibre TDM over Ethernet optical Multiplexer with 4 fibre ports supporting single mode Fibre on alternative path (Main & Hot standby); 100 Mbps ethernet port & 4 ITI G.203 Interfaces and supporting dual power supply from socket unit to be interoperable with Integrated Access Multiplexer similar to E1 optical Fabio Team engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
	1501590	2.00	Numbers	3579.016	7158.032	AT Par	7158.032	
254	Description:- Installation of E1 Optical Fibre TDM over Ethernet optical Multiplexer with 4 fibre ports supporting single mode Fibre on alternative path (Main & Hot standby); 100 Mbps ethernet port & 4 ITI G.203 Interfaces and supporting dual power supply from socket unit to be interoperable with Integrated Access Multiplexer similar to E1 optical Fabio Team engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
	1501630	2.00	Numbers	52402.856	104805.712	AT Par	104805.71	
255	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							
	1501640	1.00	Numbers	14663.32	14663.32	AT Par	14663.32	
256	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.							
	1501650	10.00	Numbers	4296.6	42966	AT Par	42966	
257	Description:- Supply of LC Gate Telephone(Slave Telephone) of Electronic LC gate telephone system as per RDSO specification No. RDSO/SPN/TC/51/2011Revision 3.0 or latest. This slave telephones are compatible/suitablefor existing Master Telephones installed in section. 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							
	1501660	25.00	Numbers	3491.856	87296.4	AT Par	87296.4	
258	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.							

	1501670 0	25.00	Numbers	1799.528	44988.2	AT Par	44988.2	
259	Description:- Fabrication and erection of emergency rail post along the side of Rly track as per the location given by site engineer. It includes supply, fixing and wiring of socket box on emergency rail post. It includes supply of all the items except the Rails and Cable which will be arranged/provided by Railway. The contractor will complete all related work along with excavation if required for erection/installation of emergency rail post. 6-Pin emergency socket will be supplied as per RDSO Specn.No.IRS:TC42/87. Each socket box should have inbuilt universal lock facility with key as per sample approved by site engineer. Note: Contractor will supply the emergency socket box only after sample got approved from site engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
	1501680 0	10.00	Numbers	1239.128	12391.28	AT Par	12391.28	
260	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.							
	1501690 0	25.00	Numbers	198.96	4974	AT Par	4974	
261	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.							
	1501700 0	25.00	Numbers	738.504	18462.6	AT Par	18462.6	
262	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.							
	1501710 0	1.00	Numbers	39259.064	39259.064	AT Par	39259.064	
263	Description:- Supply. installation, wiring, testing and commissioning of 4 Wire HQ Equipment which comprises control equipments as per RDSO Specn.No.IRS- TC@ 45<47@ 2007 or latest and emergency control equipments as per RDSO Specn.No.IRS: S-61/93 or latest. It includes supply, installation, wiring, testing and commissioning of HQ control equipments in test room and in control office as per arrangement decided by site engineer. This includes wiring in PVC channel of suitable size. installation and wiring of power supply unit, battery charger and batteries. Note: Power supply unit, battery charger and batteries of suitable ratings/capacities will also be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.							
	1501730 0	6.00	Numbers	21793.28	130759.68	AT Par	130759.68	
264	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.							
	1501750 0	4.00	Numbers	3558.736	14234.944	AT Par	14234.944	
265	Description:- Supply of Single Mode Single Fiber Optical Media Driver 20KM 10/100/1000(Giga) RJ-45 with inbuilt power supply 230VAC/-48VDC model Techroutes TD-FMC-20KM or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
266	1501910 0	10.00	Numbers	44501.624	445016.24	AT Par	445016.24	

	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						
267	15019200	8.00	Numbers	4946.776	39574.208	AT Par	39574.208
	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.						
268	15019300	8.00	Numbers	10565.688	84525.504	AT Par	84525.504
	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						
269	15019400	3000.00	Metre	26.416	79248	AT Par	79248
	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.						
270	15019500	100.00	Metre	42.272	4227.2	AT Par	4227.2
	Description:- Supply of screened 5 pair (10 core) color coded & twisted Data Communication Cable, each core made of Copper Conductor of 0.50mm diameter(7/0.20mm) ABC (Annealed Bare Copper) & Polyethylene Insulated having core outer diameter 1.3mm (wall thickness 0.25mm), such 2 core twisted in a pair and such 5 pair laid up & polyester taped, 0.6 mm ATC (Annealed Tinned Copper) Drain Wire, overlapped with Aluminium Foil for screening/shielded, polyester tape, grey color PVC outer sheath of wall thickness 1.3mm should be provided for the data communication wherever required. Tolerance in dimensions should be within ± 10. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
271	15019600	20.00	Numbers	1118	22360	AT Par	22360
	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.						
272	15019700	10.00	Numbers	1344.84	13448.4	AT Par	13448.4
	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.						
273	15019800	3.00	Numbers	1292.312	3876.936	AT Par	3876.936
	Description:- Supply and installation of Monitor speaker with volume control model WS-664T or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
274	15019900	2500.00	Metre	28.176	70440	AT Par	70440

	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.						
275	15020100	4.00	Numbers	14245.648	56982.592	AT Par	56982.592
	Description:- Supply & installation of Amplifier AHUJA TZA-4000EM or similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
276	15020200	4.00	Numbers	1315.352	5261.408	AT Par	5261.408
	Description:- Supply of Mike AHUJA ACM-66CH or superior make. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
277	15020300	3.00	Numbers	8639.512	25918.536	AT Par	25918.536
	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.						
278	15020400	3.00	Numbers	25400.2	76200.6	AT Par	76200.6
	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.						
279	15026500	15.00	Numbers	3734.12	56011.8	AT Par	56011.8
	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.						
280	14012000	5.00	Numbers	657360	3286800	AT Par	3286800
	Description:- Supply of Compact portable gasolin rail drill machine with belt cover (HM-36) drilling capacity 6 to 36 mm. Suitable for 52 Kg , 60 Kg. Tongue rail, point machine base plate .Weight :approx. 15Kg without attachment. Machine size(Max):HxLxW:480x350x260mm, Barrel dia:52+/-1 mm, drilling time 45 second, clamping 25 sec, declamping 15sec. Inspection:RITES Inspection Charges: None Payment Terms: 100% after Supply						
281	07012500	1.00	Set	690014.552	690014.552	AT Par	690014.55
	Description:- Supply of High Availability Single Section digital axle counters (HASSDAC) with Dual sensor system as per RDSO/SPN/177/2012 version 3 or latest. This includes the supply of High frequency web mounting type Tx coil/Rx coil, VR/PR Box duly wired, Vital relays, PR Relays, Clamp with deflector plates & hardware, Dual display reset box with auto resetting facility, Surge voltage protection devices and filter card to be mounted on din rail etc as per OEM for complete installation & testing & commissioning of (HASSDAC) system NOTE: One set of HASSDAC system will include equipment required to monitor One Up line or One Dn line of a full Block Section between two stations. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
282	07012600	1.00	Set	15999.864	15999.864	AT Par	15999.864
	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.						

Total Amount of BoQ = Rs. 25,92,74,498.1

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,
General Manager (Mktg),
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. (Rs Only) 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 or to postpone for any time 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 ___, 2023 (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:

Pre 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 Pre-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 participating in the tender issued 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 before final submission of the said bid to end customer. **(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 shall not bid individually for the said Project nor shall they enter into any arrangement with other parties for the purpose of bidding 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 pre-bid teaming agreement for requirement of submission of bid against the RFP floated by end customer for Implementation of Network Security System and Integration for 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.

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

For XXXX
Authorized Signatory

Name:

Name:

Designation:

Designation:

In Presence of witness:

Signature:

Signature:

Name:

Name:

Address:

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 RailTel 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

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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 an accessory to such offences.

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 the parties comply with the obligations under this agreement.
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 PRE-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. 100/-. 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: “Automatic Block Signaling works in Narnaul- Kathuwas section of Jaipur division on 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 Nine (09) 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 09 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-103).