

**RAILTEL CORPORATION OF INDIA LIMITED**  
**(A Govt. of India Undertaking)**

**Expression of Interest for Selection of Partner from Empanelled Business Associate for  
EXCLUSIVE PRE-BID TEAMING ARRANGEMENT**

**For**

**“Request for Proposal (RFP)**

**For**

**Additional works in (1) Providing CCTV & Biometric at signal workshop Sabarmati, (2)  
Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building.**

**EOI No: RCIL/WR/MUMBAI/Mktg/25-26/06 Dt: 19<sup>th</sup> May 2025**



**EOI NOTICE**  
**RailTel Corporation of India Ltd,**  
**Western Railway Microwave Complex, Senapati Bapat Marg,**  
**Mahalaxmi, Mumbai – 400013**

**EOI Notice No:** RCIL/WR/MUMBAI/Mktg/25-26/06 Dt: 19th May 2025

RailTel Corporation of India Ltd., (here after referred to as “RailTel”) invites EOIs from RailTel’s Empanelled Partners for the selection of suitable partner as Exclusive pre-bid teaming arrangement for Additional works in (1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building as per Western Railway Tender No. DRM-SnT-ADI-Tele01 of 2025-26 dated 24/04/2025 and any other addendums/ corrigendum’s/ documents contained within and related to the same.

The details are asunder:

1	Last date for submission of Technical Packet against EOIs by bidders	21st May 2025 10:00 hrs
2	Opening of Technical Bid of EOIs	21st May 2025 10:30 hrs
4	EOI fees inclusive tax (Non-refundable)	Rs. 10,000/- (Inclusive of 18% GST)
5	EMD for Pre-Bid Arrangement	Rs. 1,87,850/-

The Token EMD should be in the favor of RailTel Corporation of India Limited payable at Mumbai through online bank transfer only. Partner needs to share the online payment transfer details like UTR No, date of payment.

RailTel Bank Details: Union Bank of India, Account No. 317801010036605, IFSC Code - UBIN0531782.

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

**1. Level 1**

**Contact Name:** Mr. Saish Sankhe

**Designation:** Deputy Manager/ Marketing

**E-Mail Address:** saish.sankhe@railtelindia.com

**Mobile No:** +91- 8999292981

**2. Level 2**

**Contact Name:** Sh. Viplov Nath Mishra

**Designation:** Senior Deputy General Manager/ Marketing

**E-Mail Address:** viplovnmishra@railtelindia.com

**Mobile No:** +91- 9004444124

**Note:**

1. Empanelled partners are required to submit soft copy of technical & price packet through an e-mail at [eoi.wr@railtelindia.com](mailto:eoi.wr@railtelindia.com) duly signed by Authorized Signatories with Company seal and stamp.
2. The EOI response is invited from eligible **Empanelled Partners of RailTel only. The Empanelled partner has to submit its valid empanelment Letter of Intent along with his Bid.**
3. All the document must be submitted with **proper indexing and page no.**
4. This is an **exclusive pre-RFP partnership arrangement with empanelled business associate of RailTel for participating in the end customer RFP.** Selected partner's authorized 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 end customer organization by RailTel). This undertaking has to be given with this EOI Response.
5. Partner has to submit their response as an individual organization only. No consortium is allowed. The Bidder has to be an empanelled partner of RailTel.
6. **Transfer and Sub-letting.** The Business Associate has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contractor 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.
7. All Bidders to sign and stamp RailTel's EOI and its corrigendum's implying acceptance of all terms and conditions as mentioned and submit the same along with their Bids.
8. Any changes made by RailTel's end customer in Tender No. DRM-SnT-ADI-Tele01 of 2025-26 up to the last date of submission of the said tender by RailTel will be unquestionably & without any objection accommodated by the Bidders in their Technical & Price offer submitted against this EOI. Changes include all the technical, financial, format changes and any other changes as applicable and deemed applicable by RailTel.



## 1. As Introduction about RailTel

RailTel Corporation of India Limited (RailTel), an ISO-9001:2000 organization is a Mini Ratna Government of India undertaking under the Ministry of Railways. The Corporation was formed in Sept 2000 with the objectives to create nationwide Broadband Telecom and Multimedia Network in all parts of the country, to modernize Train Control Operation and Safety System of Indian Railways and to contribute to realization of goals and objective of national telecom policy 1999. RailTel is a wholly owned subsidiary of Indian Railways.

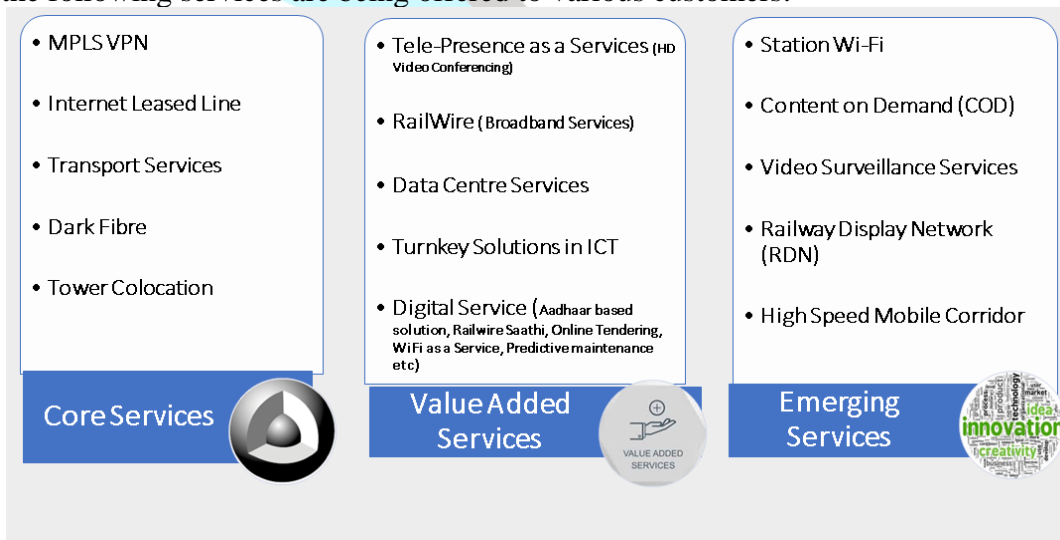
RailTel has approximately 60000 kms of OFC along the protected Railway tracks. The transport network is built on high capacity DWDM and an IP/ MPLS network over it to support mission critical communication requirements of Indian Railways and other customers. RailTel has Tier-III Data Center in Gurgaon and Secunderabad hosting / collocating critical applications. RailTel is also providing Telepresence as a Service (TPaaS), where a High-Definition Video Conference facility bundled with required BW is provided as a Service.

For ensuring efficient administration across India, country has been divided into four regions namely, Eastern, Northern, Southern & Western each headed by Executive Director and Headquartered at Kolkata, New Delhi, Secunderabad & Mumbai respectively. These regions are further divided into territories for efficient working. RailTel has territorial offices at Guwahati, & Bhubaneswar in East, Chandigarh, Jaipur, Lucknow in North, Chennai & Bangalore in South, Bhopal, and Pune & Ahmedabad in West. Various other territorial offices across the country are proposed to be created shortly.

RailTel's business service lines can be categorized into three heads namely B2G/B2B (Business to Government and Business to Business) and B2C (Business to customers):

### Licenses & Service portfolio:

Presently, RailTel holds Infrastructure Provider -1, National Long-Distance Operator, International Long-Distance Operator and Internet Service Provider (Class-A) licenses under which the following services are being offered to various customers:



#### a) Carrier Services

- National Long Distance: Carriage of Inter & Intra -circle Voice Traffic across India

using state of the art NGN based network through its Interconnection with all leading Telecom Operators

- Lease Line Services: Available for granularities from E1 to multiple of Gigabit bandwidth & above
- Dark Fiber/Lambda: Leasing to MSOs/Telco's along secured Right of Way of Railway tracks
- Co-location Services: Leasing of Space and 1000+ Towers for collocation of MSC/BSC/BTS of Telco's

**b) Enterprise Services**

- Managed Lease Line Services: Available for granularities from E1, DS-3, STM-1 & above
- MPLS VPN: Layer-2 & Layer-3 VPN available for granularities from 2 Mbps & above
- Dedicated Internet Bandwidth: Experience the "Always ON" internet connectivity at your fingertips in granularities 2 Mbps to several Gbps

**c) DATA CENTER**

- Infrastructure as a service (IaaS), Hosting as Services, Security operation Centre as a Service (SOCaaS): RailTel has MeitY empaneled two Tier-III data centres in Gurgaon & Secunderabad. Presently RailTel is hosting critical applications of Indian Railways, Central & State government/ PSUs applications. RailTel will facilitate Government's applications
- Hosting services including smooth transition to secured state owned RailTel's Data Centers and Disaster Recovery Centres. RailTel also offers SOC as a Service 'SOCaaS'. In addition, RailTel offers VPN client services so that employees can seamlessly access government's intranet, applications securely from anywhere without compromising security.

**d) National Long Distance:**

Carriage of Inter & Intra -circle Voice Traffic across India using state of the art NGN based network through its Interconnection with all leading Telecom Operators

- Lease Line Services: Available for granularities from E1 to multiple of Gigabit bandwidth & above
- Dark Fiber/Lambda: Leasing to MSOs/Telco's along secured Right of Way of Railway tracks
- Co-location Services: Leasing of Space and 1000+ Towers for collocation of MSC/BSC/BTS of Telco's

**e) High-Definition Video Conference:**

RailTel has unique service model of providing high -definition video conference bundled with Video Conference equipment, bandwidth and FMS services to provide end to end

seamless services on OPEX model connecting HQ with other critical offices. RailTel also offers application-based video conference solution for employees to be productive specially during this pandemic situation.

#### **f) Retail Services – RailWire**

RailWire: Triple Play Broadband Services for the Masses. RailTel has unique model of delivering broadband services, wherein local entrepreneurs are engaged in delivering & maintaining broadband services and up to 66% of the total revenues earned are shared to these local entrepreneurs in the state, generating jobs and revitalizing local economies. On date RailTel is serving approx. 4,68,000 subscribers on PAN Indian basis. RailTel can provide broadband service across– Government PSU or any organization's officers colonies and residences.

### **2. Project Background and Objective of EOI**

RailTel intends to participate in RFP floated by end Customer organization for (1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building. with Tender No. DRM-SnT-ADI-Tele01 of 2025-26.

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

### **3. Scope of Work**

The scope of work will be as mentioned in the end Customer Organization Tender for **Additonal works involved in (1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building.**with Tender No. **DRM-SnT-ADI-Tele01 of 2025-26** with latest amendment/ Corrigendum/ Clarifications uploaded upto the last date of submission of the aforesaid tender.

The broad scope of work is mentioned in end customer **Tender No. DRM-SnT-ADI-Tele01 of 2025-26** along with its latest amendments and clarifications

In case of any discrepancy or ambiguity in any clause / specification pertaining to scope of work area, the tender/RFP and corrigendum/addendum released by end customer organization shall supersede and will be considered sacrosanct. (All associated clarifications, response to queries, revisions, addendum, and corrigendum, associated prime service agreement PSA/MSA/SLA also included.)

Business associate can participate as a sole bidder only. No consortium is permitted. Bidder must be RailTel's empanelled partner and will be responsible for all the conditions mentioned in this and the end customer RFP.



**Special Note: RailTel may retain some portion of the work mentioned in the end organization RFP, where RailTel has competence so that overall proposal becomes most winnable proposal.**

#### **4. Response to EOI guidelines**

##### **4.1 Language of Proposals**

The proposal and all correspondence and documents shall be written in English in soft copy through an email.

##### **4.2 RailTel's Right to Accept/Reject responses**

RailTel reserves the right to accept or reject any response and annul the bidding process or even reject all responses at any time prior to selecting the partner, without thereby incurring any liability to the affected bidder or Business Associate or without any obligation to inform the affected bidder or bidders about the grounds for RailTel's action.

##### **4.3 EOI response Document**

The bidder is expected to examine all instructions, forms, terms and conditions and technical specifications in the bidding documents. Submission of bids, not substantially responsive to the bidding document in every aspect will be at the bidder's risk and may result in rejection of its bid without any further reference to the bidder.

All pages of the documents shall be signed by the bidder including the closing page in token of his having studied the EOI document and should be submitted along with the bid.

##### **4.4 Period of Validity of bids and Bid Currency**

Bids shall remain valid for a period of 180 days from the date of Bid submission issued by the end Customer organization for which bid is going to be submitted.

##### **4.5 Bid Earnest Money (EMD)**

**4.5.1** The Business Associate shall furnish a sum as given in EOI Notice via online transfer from any scheduled bank in India in favour of "RailTel Corporation of India Limited" along with the offer. This will be called as EOI/Token EMD.

**4.5.2** Offers not accompanied with valid Token Earnest Money Deposit shall be summarily rejected.

**4.5.3** In case if offer is selected for bidding, the partner has to furnish Earnest Money Deposit (for balance amount as mentioned in the customer's Bid or as per RailTel policy as applicable) for the bid to RailTel in the form of Online Transfer/BG/combination of both. The selected Business Associate shall have to submit EMD before submission of bid to end customer as applicable.

**4.5.4 Return of EMD for unsuccessful Business Associates:** EOI EMD of the unsuccessful Business Associate shall be returned without interest after completion of EOI process.

**4.5.5 Return of EMD for successful Business Associate:** EOI-EMD & Earnest Money Deposit (balance proportionate EMD) and Integrity Pact BG of the

successful bidder will be discharged / returned as promptly as possible after the receipt of RailTel's EMD/BG from the end Customer and or on receipt of Security Deposit Performance Bank Guarantee as applicable (clause no. 4.6) from Business Associate whichever is later.

**4.5.6 Forfeiture of EOI EMD or EOI EMD & balance EMD (balance proportionate EMD) and or Penal action asper EMD Declaration:**

**4.5.6.1** The EOI EMD will be forfeited if the Balance EMD is not paid before RailTel's bid submission in end customers Tender

**4.5.6.2** The EOI EMD & Balance EMD may be forfeited and or penal action shall be initiated if a Business Associate withdraws his offer or modifies the terms and conditions of the offer during validity period.

**4.5.6.3** In case of non-submission of SD/PBG (as per clause no. 4.6) lead to forfeiture of EOI EMD, EMD (balance proportionate EMD) if applicable and Integrity Pact and or suitable action as prescribed in the EMD Declaration shall be initiated as applicable.

**4.5.6.4** Having participated with another party/directly/through consortium apart from RailTel in RailTel's end customer Tender

**4.6 Security Deposit / Performance Bank Guarantee (PBG)**

**4.6.1** In case the bid is successful, the PBG of requisite amount proportionate to the agreed scope of the work will have to be submitted to RailTel.

**4.6.2** As per work share arrangements agreed between RailTel and Business Associate the PBG will be proportionately decided and submitted by the selected Business Associate.

**4.7 Last date & time for Submission of EOI response**

EOI response must be submitted to RailTel at the email address specified in the preamble not later than the specified date and time mentioned in the preamble.

**4.8 Modification and/or Withdrawal of EOI response**

EOI response once submitted will treated, as final and no modification will be permitted except with the consent of the RailTel.

No Business Associate shall be allowed to withdraw the response after the last date and time for submission.

The successful Business Associate will not be allowed to withdraw or back out from the response commitments. In case of withdrawal or back out by the successful business associate, the Earnest Money Deposit shall be forfeited, and all interests/claims of such Business Associate shall be deemed as foreclosed.

**4.9 Details of Financial bid for the above referred tender**

Business Associate meeting eligibility criteria and lowest price will be selected for exclusive pre-bid arrangement for optimizing technical and commercial solution so that most winnable solution is submitted to end customer.

In case if there are Two or more Business Associate meeting eligibility criteria and quoting same price, then negotiation will be conducted within these Sole partner in the second stage



for the given scope of the work and Sole bidder with overall lowest (L1) offer will be selected for exclusive pre bid arrangement for optimizing technical and commercial solution.

The final bid for the tender will be prepared jointly with the selected Business Associate so that the optimal bid can be put with a good chance of winning the Tender.

Also it may be noted that RailTel may choose multiple BAs for final bidding depending upon the lowest offer received so that a winning bid can be put forth.

The BA's will have to encompass RailTel margin over all components of the Price in end customer Tender/RFP.

Any Changes in the end customer Tender after the last date of submission of RailTel EoI shall be unquestionably & without any objection accommodated by the BA/BAs in their Technical & Price offer submitted against this EoI.

#### 4.10 Clarification of EOI Response

To assist in the examination, evaluation and comparison of bids the purchaser may, at its discretion, ask the Business Associate for clarification. The response should be in writing and no change in the price or substance of the EOI response shall be sought, offered or permitted.

#### 4.11 Period of Association/Validity of Agreement

RailTel will enter into a pre-bid agreement with selected bidder with detailed Terms and conditions.

### 5. Eligibility Criteria for Bidding Business Partner of RailTel

S No	Particulars	Criteria for Tender Package
		(Mandatory Compliance & Document Submission)
A)	<b>Financial Conditions</b>	
i)	The bidder should be registered under Companies Act, 1956 or Companies Act 2013 or as amended and should have at least 7 years of operations in India as on bid submission date.	1. Certificate of Incorporation 2. GST Registration 3. PAN Card
ii)	Average annual turnover of bidder should have at least 4 Crore INR during last 3 Financial Years (FY2024-25, FY2023-24, FY2022-23)	Copy of the audited Balance Sheet and Profit & Loss Statement of the company and/or Certificate from the Chartered Accountant clearly stating the average annual turnover during last 3 Financial Years ((FY2024-25, FY2023-24, FY2022-23) Only audited financial statements will be considered for evaluation purposes
iii)	The bidder should also have a positive net worth as of March 31 <sup>st</sup> & be profitable in each of the last 3 financial years (FY2024-25, FY2023-24, FY2022-23)	Audited balance sheet, profit & loss statement and Positive Net Worth & Profitability Certificate issued by the CA for the last three financial years (FY 24-25, 23-24, 22-23).

S No	Particulars	Criteria for Tender Package
		(Mandatory Compliance & Document Submission)
		Certificate should contain UDIN no. issued by ICAI.
<b>B)</b>	<b>Technical Conditions</b>	
iv)	<p>The participant must have successfully completed at least one work similar to work proposed in the tender in last 05 (five) years, ending last day of month previous to the one in which tender is invited, costing not less than 35% value of work mentioned in this EOI.</p> <p>One similar work each costing not less than the amount equal to 35% of advertised value of this EOI. Similar work means: "Any work in IT/ITES/ICT Domain"</p>	<p>Work order and Completion Certificate of the mentioned work.</p> <p>(In case of partial completion of work, a CA certificate will be required stating the amount received from the on-going project)</p>
v)	Certifications: 1) ISO 9001:2015	Copies of Certificates (priority will be given to higher level of certifications)

## 6. Bidder's Profile

The bidder shall provide the information in the below table:

S. No.	ITEM	Details
1.	Full name of bidder's firm	
2.	Full address, telephone numbers, fax numbers, and email address of the primary office of the organization / main / head / corporate office	
3.	Name, designation and full address of the Chief Executive Officer/Director of the bidder's organization as a whole, including contact numbers and emailAddress	
4.	Full address, telephone and fax numbers, and email addresses of the office of the organization dealing with this tender	
5.	Name, designation and full address of the person dealing with the tender to whom all reference shall be made regarding the tender enquiry. His/her telephone, mobile, Fax and email address	
6.	Bank Details (Bank Branch Name, IFSC Code, Account	

	number)	
7.	PAN, GST, TAN Registration numbers	

## 7. Evaluation Criteria

**7.1** The Business Associates are first evaluated on the basis of the Eligibility Criteria as per clause 5 above.

**7.2** The Business Associate qualifying the Eligibility criteria will be selected for exclusive pre-bid arrangement for optimizing technical and commercial solution so that most winnable solution is submitted to end customer.

**7.3** In case if there are two or more Sole Bidders meeting eligibility criteria then the price bids will be sought from these Sole Bidder in the second stage for the given scope of the work and Sole Bidder with overall lowest (L1) offer will be selected for exclusive pre-bid arrangement for optimizing technical and commercial solution.

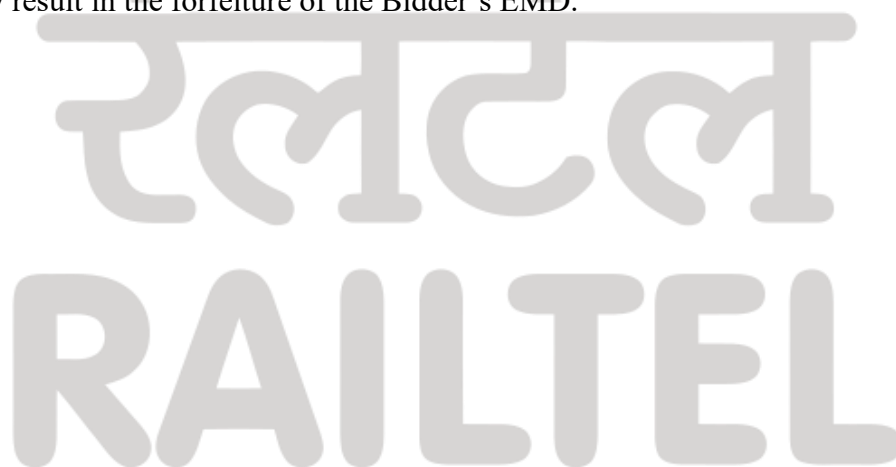
**7.4** RailTel reserves the right to accept or reject the response against this EOI, without assigning any reasons. The decision of RailTel is final and binding on the participants. The RailTel evaluation committee will determine whether the proposal/ information is complete in all respects and the decision of the evaluation committee shall be final. RailTel may at its discretion assign lead factor to the Business associate as per RailTel policy for shortlisting partner against this EOI.

**7.6** All General requirements mentioned in the Technical Specifications are required to be complied. The solution proposed should be robust and scalable.

## 8. Withdrawal of Bids

A Bidder wishing to withdraw its bid shall notify to RailTel by e-mail prior to the deadline prescribed for bid submission. The notice of withdrawal shall be addressed to RailTel at the address named in the Bid Data Sheet, and bear the Contract name, the <Title> and < Bid No.>, and the words “Bid Withdrawal Notice.” Bid withdrawal notices received after the bid submission deadline will be ignored, and the submitted bid will be deemed to be a valid submitted bid.

No bid can be withdrawn in the interval between the bid submission deadline and the expiration of the bid validity period specified in the Bid Data Sheet. Withdrawal of a bid during this interval may result in the forfeiture of the Bidder’s EMD.



## **9 Evaluation Process**

The evaluation process of the bid proposed to be adopted by RailTel is indicated in this section. The purpose of this section is to provide the Bidder an idea of the evaluation process that RailTel may adopt.

RailTel shall appoint a Bid Evaluation Committee (BEC) to scrutinize and evaluate the technical and commercial bids received. The BEC will examine the Bids to determine whether they are complete, responsive and whether the bid format conforms to the bid requirements. RailTel may waive any informality or non-conformity in a bid which does not constitute a material deviation according to RailTel.

The bid prices should not be mention in any part of the bid other than the Commercial Bid. Any attempt by a bidder to influence the bid evaluation process may result in the rejection of Bid and forfeiture of EMD.

## **10 Performance Bank Guarantee**

The Bidder shall at his own expense, deposit with RailTel, an unconditional and irrevocable Performance Bank Guarantee (PBG) from nationalized banks or scheduled banks excluding Co-operative banks as per the format given in this bid, payable on demand, for the due performance and fulfilment of the contract by the Bidder.

This Performance Bank Guarantee will be submitted within 25 days of the notification of award of the contract/ Letter of Acceptance (LOA) issuance whichever is earlier. If PBG is not submitted within this time frame a delayed PBG penalty will be attracted. Post 25 days and up to 50 days from date of notification of award of the contract/ Letter of Acceptance (LOA) issuance a penalty at 15% per annum interest of LOA amount will be levied as delayed PBG penalty and this penalty will be deducted from the Invoices & EMD of the Bidder. After these 50 days if PBG is not submitted then it will be assumed that the Bidder is not interested in submitting PBG and the Amount of PBG along with the delayed PBG penalty calculated will be retained from Invoices & EMD of the Bidder. Non-submission of PBG can also lead to cancellation of contract and the decision with respect to whether, to retain the PBG Amount and penalty from Invoices & EMD or cancellation of contract, will be at the sole discretion of RailTel. In the event of cancellation of contract EMD will be forfeited. If PBG is retained from Invoices & EMD then the PBG Amount only and not the penalty attracted will be paid to the Bidder in such a case post the contract period plus three months (expected PBG validity date) are over after deducting any applicable deductions (e.g.: Poor service, etc).

This Performance Bank Guarantee will be for an amount equivalent to a particular percentage of the total contract value or as specified in RailTel's end customers tender. All charges whatsoever such as premium, commission, stamp duties etc. with respect to the Performance Bank Guarantee shall be borne by the Bidder. The Performance Bank Guarantee format can be found in this document.

The Performance Bank Guarantee may be discharged/ returned by RailTel upon being satisfied that there has been due performance of the obligations of the Bidder under the contract. However, no interest shall be payable on the Performance Bank Guarantee.

In the event of the Bidder being unable to service the contract for whatever reason, RailTel would invoke the PBG. 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 Bidder's failure to complete its obligations under the Contract. RailTel shall notify the Bidder in writing of the exercise of its right to receive such compensation within 30 days, indicating the contractual obligation(s) for which the Bidder is in default.

The 30 days' notice period shall be considered as the 'Cure Period' to facilitate the Implementation Agency to cure the breach. The PBG shall be invoked only if the breach is solely attributable to the bidder and the bidder fails to rectify the breach within the 'Cure Period'.

RailTel shall also be entitled to make recoveries from the Bidder's bills, performance bank guarantee, or from any other amount due to the Bidder, the equivalent value of any payment made to the Bidder due to inadvertence, error, collusion, misconstruction or misstatement.

## **11 Rights to Terminate the Process**

RailTel may terminate the bid process at any time and without assigning any reason. RailTel makes no commitments, express or implied, that this process will result in a business transaction with anyone.

This bid document does not constitute an offer by RailTel. The Bidder's participation in this process may result in RailTel selecting the Bidder to engage in further discussions and negotiations towards 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.

## **12. Payment terms**

12.1 RailTel shall make payment to selected Business Associate after receiving payment from Customer for the agreed scope of work. In case of any penalty or deduction made by customer for the portion of work to be done by BA, same shall be passed on to Business Associate.

12.2 All payments by RailTel to the Partner will be made after the receipt of payment by RailTel from end customer organization and upon submission of correct Tax Invoices as per statutory norms.

12.3 The Payments received from end customer will be disbursed Scope wise to the selected BA.

12.4 Payments to selected BAs will be in Arrears only

## **13 SLA/Penalty/LD**

The selected bidder will be required to adhere to the SLA/Penalty/LD matrix as defined in the end Customer organization tender for his scope of work and the SLA/Penalty/LD breach penalty will be applicable proportionately on the selected bidder, as specified in the end Customer organization Tender. The SLA/Penalty/LD scoring and penalty deduction mechanism



for in-scope of work area shall be followed as specified in the Tender. All associated clarifications, responses to queries, revisions, addendum and corrigendum, associated Prime Services Agreement (PSA)/ MSA/ SLA also included. Any deduction by Customer from RailTel payments on account of SLA/Penalty/LD breach which is attributable to Partner and will be passed on to the Partner proportionately based on its scope of work.

#### **14 Duration of the Contract Period**

The contract shall remain in force for a minimum period of 1 year from the Commercial Operation Date (COD) which will be back to back as per end customer tender. The effective date will be the day when the Condition Precedents are met. After 1 year, RailTel may extend the agreement as per its end customers' requirements and performance.

**Note:**

- 1. Depending on RailTel's business strategy RailTel may choose to work with Partner who is most likely to support in submitting a winning bid**
- 2. All Documents and requirements like EMD, Tender Fees, PBG, Contract Agreement to be shared/executed Back to Back as per the end customer RFP/Tender with Tender No. DRM-SnT-ADI-Tele01 of 2025-26 In case of any discrepancy or ambiguity in any clause /specification pertaining to scope of work area, the RFP released by end customer organization shall supersede and will be considered sacrosanct. (All associated clarifications, response to queries, revisions, addendum and corrigendum, associated prime service agreement (PSA)/ MSA/ SLA also included.)**
- 3. All clauses such as cost involved, payment term, validity, lock in period, etc will be back to back as per customer tender**
- 4. All required MAFs and other OEM related documents along with end customer consortium partner related documents like Integrity pact, Manpower CVs, etc which are mandatory in RailTel's end customer tender is to be arranged by Selected Bidders before RailTel's submission of Bid in end customer tender.**



**Annexure 1: COVERING LETTER**

**(To be submitted by sole Bidder on Letter head)**

EoI Reference No: \_\_\_\_\_ Date: \_\_\_\_\_

To  
RailTel Corporation of India Ltd  
Western Railway Microwave Complex  
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

Dear Sir,

**SUB:** Participation in the EoI process

Having examined the Invitation for EoI document bearing the reference number \_\_\_\_\_ Dt. \_\_\_\_\_ released by your esteemed organization, we, undersigned, hereby acknowledge the receipt of the same and offer to participate in conformity with the said Invitation for EoI document.

If our application is accepted, we undertake to abide by all the terms and conditions mentioned in the said Invitation for EoI document.

We hereby declare that all the information and supporting documents furnished as a part of our response to the said Invitation for EoI document, are true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us, our EoI is liable to be rejected.

We hereby Submit EMD amount of Rs. \_\_\_\_\_ issued vide \_\_\_\_\_ from Bank \_\_\_\_\_.

**Authorized Signatory Name:**

**Designation:**

**Contact No:**

**E-Mail Address:**

**Signature:**

**Seal of the Organization:**

रेलटेल  
RAILTEL

**Annexure 2: Self-Certificate & Undertaking**  
**(To be submitted by sole Bidder on Letter Head)**

EOI Reference No: \_\_\_\_\_ Date: \_\_\_\_\_

To  
RailTel Corporation of India Ltd  
Western Railway Microwave Complex  
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

Dear Sir,

**Sub:** Self Certificate for Tender, Technical, Commercial & other compliances

1. Having examined the Technical specifications mentioned in this EOI & end customer tender, we hereby confirm that we meet all specification.
2. We agree to abide by all the technical, commercial & financial conditions of the end customer RFP for which EOI is submitted (except pricing, termination & risk purchase rights of the RailTel). We understand and agree that RailTel shall release the payment to selected sole partner/lead partner after the receipt of corresponding payment from end customer by RailTel. Further we understand that in case selected sole bidder fails to execute assigned portion of work, then the same shall be executed by RailTel through third party or departmentally at the risk and cost of selected sole partner bidder.
3. We agree to abide by all the technical, commercial & financial conditions of the end customer's RFP for the agreed scope of work for which this EOI is submitted.
4. We hereby 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. We are hereby enclosing the arrangement of OEMs against each of the BOQ item quoted as mentioned end customer's RFP. We also undertake to submit MAF and other documents required in the end Customer organization tender in favour of RailTel against the proposed products.
5. We hereby certify that any services, equipment and materials to be supplied are produced in eligible source country complying with OM/F. No. 6/18/2019 dated 23rd July 2020 issued by DoE, MoF.
6. We hereby undertake to work with RailTel as per end customer's RFP terms and conditions. We confirm to submit all the supporting documents constituting/ in compliance with the Criteria as required in the end customer's RFP terms and conditions like technical certificates, OEM compliance documents.
7. We understand and agree that RailTel is intending to select a sole bidder who is willing to accept all terms & conditions of end customer organization's RFP for the agreed scope of work. RailTel will strategies to retain scope of work where RailTel has competence.

8. We hereby agree to submit that in case of being selected by RailTel as sole bidder for the proposed project (for which EOI is submitted), we will submit all the forms, appendix, relevant documents etc. to RailTel that is required and desired by end Customer well before the bid submission date by end customer and as and when required.
9. We hereby undertake to sign Pre-Bid Agreement, Pre-Contract Integrity Pact and Non-Disclosure Agreement with RailTel on a non-judicial stamp paper of Rs. 500/- in the prescribed Format.
10. We undertake that we will not submit directly or indirectly out 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 end customer organization by RailTel)

**Authorized Signatory Name:**

**Designation:**

**Signature:**

**Seal of the Organization:**



**Annexure 3: Undertaking for not being Blacklisted/Debarred**  
**(To be submitted by sole bidder on Letter Head)**

EoI Reference No: \_\_\_\_\_ Date: \_\_\_\_\_

To  
RailTel Corporation of India Ltd  
Western Railway Microwave Complex  
Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013

Dear Sir,

**Subject:** Undertaking for not being Blacklisted/Debarred

We, <Company Name>, having its registered office at <Address> hereby declares that that the Company has not been blacklisted/debarred by any Governmental/ Non-Governmental organization in India for past 3 Years as on bid submission date.

**Authorized Signatory Name:**

**Designation:**

**Signature:**

**Seal of the Organization:**

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#### Annexure 4: Format of Affidavit

##### **FORMAT FOR AFFIDAVIT TO BE UPLOADED BY SOLE PARTNER ALONGWITH THE EOI DOCUMENTS**

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

I..... (Name and designation) \* appointed as the attorney/authorized signatory of the BA (including its constituents),

M/s \_\_\_\_\_ (hereinafter called the BA) for the purpose of the EOI documents for the work of \_\_\_\_\_ as per the EOI No. \_\_\_\_\_ Dt. \_\_\_\_\_ of (RailTel Corporation of India Ltd), 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](http://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 ADVOCATE

**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.**

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## **Annexure 5: Draft Non-Disclosure Agreement**

(To be submitted on a Rs. 500 Stamp Paper)

This Non-Disclosure Agreement (“Non-Disc”) is made and entered into \_\_\_\_\_ day of \_\_\_\_\_ month \_\_\_\_\_ year (effective date) by and between \_\_\_\_\_ (“Department”) and \_\_\_\_\_ (“Company”). Whereas, Department and Company have entered into an Agreement (“Agreement”) \_\_\_\_\_ effective \_\_\_\_\_ for \_\_\_\_\_ and

Whereas, each party desires to disclose to the other party certain information in oral or written form which is proprietary and confidential to the disclosing party, (“CONFIDENTIAL INFORMATION”).

NOW, THEREFORE, in consideration of the foregoing and the covenants and agreements contained herein, the parties agree as follows:

### **1. Definitions. As used herein:**

- a. The term “Confidential Information” shall include, without limitation, all information and materials, furnished by either Party to the other in connection with citizen/users/persons/customers data, products and/or services, including information transmitted in writing, orally, visually, (e.g. video terminal display) or on magnetic or optical media, and including all proprietary information, customer and prospect lists, trade secrets, trade names or proposed trade names, methods and procedures of operation, commercial or marketing plans, licensed document know-how, ideas, concepts, designs, drawings, flow charts, diagrams, quality manuals, checklists, guidelines, processes, formulae, source code materials, specifications, programs, software packages, codes and other intellectual property relating to the disclosing party’s data, computer database, products and/or services. Results of any tests, sample surveys, analytics, data mining exercises or usages etc. carried out by the receiving party in connection with the Department’s information including citizen/users/persons/customers personal or sensitive personal information as defined under any law for the time being in force shall also be considered Confidential Information.
- b. The term, “Department” shall include the officers, employees, agents, consultants, contractors and representatives of Department.
- c. The term, “Company” shall include the directors, officers, employees, agents, consultants, contractors and representatives of Company, including its applicable affiliates and subsidiary companies.

### **2. Protection of Confidential Information:** With respect to any Confidential Information disclosed to it or to which it has access, Company affirms that it shall:

- a. Use the Confidential Information as necessary only in connection with Project and in accordance with the terms and conditions contained herein;

- b. Maintain the Confidential Information in strict confidence and take all reasonable steps to enforce the confidentiality obligations imposed hereunder, but in no event take less care with the Confidential Information than the parties take to protect the confidentiality of its own proprietary and confidential information and that of its clients;
  - c. Not to make or retain copy of any commercial or marketing plans, citizen/users/persons/customers database, Bids developed by or originating from Department or any of the prospective clients of Department except as necessary, under prior written intimation from Department, in connection with the Project, and ensure that any such copy is immediately returned to Department even without express demand from Department to do so;
  - d. Not disclose or in any way assist or permit the disclosure of any Confidential Information to any other person or entity without the express written consent of the other party; and
  - e. Return to the other party, or destroy, at Department's discretion, any and all Confidential Information disclosed in a printed form or other permanent record, or in any other tangible form (including without limitation, all copies, notes, extracts, analyses, studies, summaries, records and reproductions thereof) immediately upon the earlier to occur of (i) expiration or termination of either party's engagement in the Project, or  
(ii) the request of the other party therefore.
  - f. Not to discuss with any member of public, media, press, any or any other person about the nature of arrangement entered between Department and Company or the nature of services to be provided by the Company to the Department.
- 3. Onus.** Company shall have the burden of proving that any disclosure or use inconsistent with the terms and conditions hereof falls within any of the foregoing exceptions.
- 4. Exceptions.** These restrictions as enumerated in section 1 of this Agreement shall not apply to any Confidential Information:
- a. Which is independently developed by Company or lawfully received from another source free of restriction and without breach of this Agreement; or
  - b. After it has become generally available to the public without breach of this Agreement by Company; or
  - c. Which at the time of disclosure to Company was known to such party free of restriction and evidenced by documentation in such party's possession; or
  - d. Which Department agrees in writing is free of such restrictions.
  - e. Which is received from a third party not subject to the obligation of confidentiality with respect to such Information;

- 5. Remedies.** Company acknowledges that
- (a) any actual or threatened disclosure or use of the Confidential Information by Company would be a breach of this agreement and may cause immediate and irreparable harm to Department;
  - (b) Company affirms that damages from such disclosure or use by it may be impossible to measure accurately; and
  - (c) injury sustained by Department may be impossible to calculate and remedy fully.
- Therefore, Company acknowledges that in the event of such a breach, Department shall be entitled to specific performance by Company of Company's obligations contained in this Agreement. In addition, Company shall indemnify Department of the actual and liquidated damages which may be demanded by Department. Moreover, Department shall be entitled to recover all costs (including reasonable attorneys' fees) which it or they may incur in connection with defending its interests and enforcement of legal rights arising due to a breach of this agreement by Company.
- 6. Need to Know.** Company shall restrict disclosure of such Confidential Information to its employees and/or consultants with a need to know (and advise such employees of the obligations assumed herein), shall use the Confidential Information only for the purposes set forth in the Agreement, and shall not disclose such Confidential Information to any affiliates, subsidiaries, associates and/or third party without prior written approval of the disclosing party.
- 7. Intellectual Property Rights Protection.** No license to a party, under any trademark, patent, copyright, design right, mask work protection right, or any other intellectual property right is either granted or implied by the conveying of Confidential Information to such party.
- 8. No Conflict.** The parties represent and warrant that the performance of its obligations hereunder does not and shall not conflict with any other agreement or obligation of the respective parties to which they are a party or by which the respective parties are bound.
- 9. Authority.** The parties represent and warrant that they have all necessary authority and power to enter into this Agreement and perform their obligations hereunder.
- 10. Dispute Resolution.** If any difference or dispute arises between the Department and the Company in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement, any such dispute shall be referred appropriately to RailTel/ stakeholders/ partners/ patrons
- a. The arbitration proceedings shall be conducted in accordance with the (Indian) Arbitration and Conciliation Act, 1996 and amendments thereof.
  - b. The place of arbitration shall be Mumbai.
  - c. The arbitrator's award shall be substantiated in writing and binding on the parties.
  - d. The proceedings of arbitration shall be conducted in English language.
  - e. The arbitration proceedings shall be completed within a period of 180 days from the date of reference of the dispute to arbitration.
- 11. Governing Law.** This Agreement shall be interpreted in accordance with and governed by



the substantive and procedural laws of India and the parties hereby consent to the exclusive jurisdiction of Courts and/or Forums situated at Mumbai, India only.

- 12. Entire Agreement.** This Agreement constitutes the entire understanding and agreement of the parties, and supersedes all previous or contemporaneous agreement or communications, both oral and written, representations and under standings among the parties with respect to the subject matter hereof.
- 13. Amendments.** No amendment, modification and/or discharge of this Agreement shall be valid or binding on the parties unless made in writing and signed on behalf of each of the parties by their respective duly authorized officers or representatives.
- 14. Binding Agreement.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.
- 15. Severability.** It is the intent of the parties that in case any one or more of the provisions contained in this Agreement shall be held to be invalid or unenforceable in any respect, such provision shall be modified to the extent necessary to render it, as modified, valid and enforceable under applicable laws, and such invalidity or unenforceability shall not affect the other provisions of this Agreement.
- 16. Waiver.** If either party should waive any breach of any provision of this Agreement, it shall not thereby be deemed to have waived any preceding or succeeding breach of the same or any other provision hereof.
- 17. Survival.** Both parties agree that all of their obligations undertaken herein with respect to Confidential Information received pursuant to this Agreement shall survive till perpetuity even after any expiration or termination of this Agreement.
- 18. Non-solicitation.** During the term of this Agreement and thereafter for a further period of two (2) years Company shall not solicit or attempt to solicit Department's employees and/or consultants, for the purpose of hiring/contract or to proceed to conduct operations/business similar to Department with any employee and/or consultant of the Department who has knowledge of the Confidential Information, without the prior written consent of Department. This section will survive irrespective of the fact whether there exists a commercial relationship between Company and Department.
- 19. Term.** Subject to aforesaid section 17, this Agreement shall remain valid up to \_\_\_\_\_ years from the "effective date".

IN WITNESS HEREOF, and intending to be legally bound, the parties have executed this Agreement to make it effective from the date and year first written above.

For Department

Name:

Title:

WITNESSES:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

For Company

Name:

Title:

WITNESSES:

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_

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## **Annexure 6: Integrity Pact**

(To be executed on Rs. 500/- Stamp Paper)

EoI Number: \_\_\_\_\_ Dated: \_\_\_\_\_

This Integrity Pact is made at on this \_\_\_\_\_ Day of \_\_\_\_\_ 2022

**BETWEEN**

RailTel Corporation of India Ltd (a Govt of India Enterprise under Ministry of Railways) having its registered office at Plate-A, 6th Floor, Office Block Tower-2, East Kidwai Nagar, New Delhi-110023 and Regional Office at Western Railway Microwave Complex, Senapati Bapat Marg, Mahalaxmi, Mumbai – 400013, hereinafter referred to as “The Principal”, which expression shall unless repugnant to the meaning or contract thereof include its successors and permitted assigns  
**AND**

<Bidder Name> having its registered office at <Bidders Registered and Branch Address (if any)> hereinafter referred to as “The Bidder/ Contractor/ Concessionaire/ Consultant” and which expression shall unless repugnant to be meaning or context thereof include its successors and permitted assigns.

### **Preamble**

Whereas, the Principal intends to award, under laid down organizational procedure’s contract/s for ‘ \_\_\_\_\_ ,

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

And whereas to meet the purpose aforesaid, both the parties have agreed to enter into this Integrity Pact (hereafter referred to as Integrity Pact) the terms and conditions of which shall also be read as integral part and parcel of the Tender documents and contract between the parties. Now, therefore, in consideration of mutual covenants stipulated in this pact, the parties hereby agree as follows and this pact witnessed as under: -

### **Article – 1: Commitments of the Principal**

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principle: -
  - 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 tender process or the contract execution.
  - c. The Principal will exclude all known prejudiced persons from the process.
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 any other Statutory Acts 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 as per its internal laid down Rules/ Regulations.

**Article – 2: Commitments of the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s)**

The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(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)/ Concessionaire(s)/ Consultant(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principals 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 of any kind whatsoever during the tender process or during the execution of the contract.
- b. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(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)/ Concessionaire(s)/ Consultant(s) will not commit any offence under the relevant IPC / PC. Act and other Statutory Acts; further the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not use improperly for purposes of completion 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)/ Concessionaire(s)/ Consultant(s) of foreign origin shall disclose the name and address of the Agents/ representatives in India. If any similarly the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) of Indian

Nationality shall furnish the name and address of the foreign principle, if any. Further details as mentioned in the 'Guidelines on Indian Agents of Foreign Suppliers' shall be disclosed by the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s). Further, all the payments made to the Indian Agent /Representative have to be Indian Rupees only.

- e. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(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. He shall also disclose the details of services agreed upon for such payments.
- f. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- g. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) will not bring any outside influence through any Govt. bodies/quarters directly or indirectly on the bidding process in furtherance of his bid.
- h. The Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) who have signed a Integrity pact shall not approach the court while representing the matter to IEMs and shall wait for their decision in the matter.

### **Article – 3: Disqualification from tender process and exclusion from future contracts**

1. If the Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s) before award or during execution has committed a transgression through a violation of any provision of Article-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)/ Concessionaire(s)/ Consultant(s) from the tender process.
2. If the Bidder/Contractor/Concessionaire/Consultant has committed a transgression through a violation of Article-2 such as to put his reliability or credibility into question, the Principal shall be entitled to exclude including blacklist and put on holiday the Bidder/Contractor/Concessionaire/Consultant for any future tenders/contract award process. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the Principal taking into consideration the full facts and circumstances of each case particularly taking into account the number of transgressions, the position of the transgressors within the company hierarchy of the Bidder/Contractor/Concessionaire/Consultant and the amount of the damage. The exclusion will be imposed for a maximum of 1 year.
3. A transgression is considered to have occurred if the Principal after due consideration of the available evidence concludes that “On the basis of facts available there are no material doubts”.



4. The Bidder/ Contractor/Concessionaire/Consultant will its free consent and without any influence agrees and undertakes to respect and uphold the Principal's absolute rights to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
5. The decision of the Principal to the effect that a breach of the provisions of this Integrity Pact has been committed by the Bidder/ Contractor/Concessionaire/Consultant shall be final and binding on the Bidder/ Contractor/Concessionaire/Consultant, however, the Bidder/ Contractor/ Concessionaire/ Consultant can approach IEM(s) appointed for the purpose of this Pact.
6. On occurrence of any sanctions/ disqualification etc. arising out from violation of integrity pact, Bidder/ Contractor/Concessionaire/Consultant shall not be entitled for any compensation on this account.
7. Subject to full satisfaction of the Principal, the exclusion of the Bidder/Contractor/Concessionaire/Consultant could be revoked by the Principal if the Bidder/ Contractor/Concessionaire/Consultant can prove that he has restored/recouped the damage caused by him and has installed a suitable corruption prevention system in his organization.

#### **Article – 4: Compensation for Damages**

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Article-3, the Principal shall be entitled to forfeit the Earnest Money Deposit/ Bid Security or demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security apart from any other legal right that may have accrued to the Principal.
2. In addition to above, the Principal shall be entitled to take recourse to the relevant provisions of the contract related to Termination of Contract due to Contractor/Concessionaire/Consultant's Default. In such case, the Principal shall be entitled to forfeit the Performance Bank Guarantee of the Contractor/ Concessionaire/ Consultant and/or demand and recover liquidated and all damages as per the provisions of the contract/Concession agreement against Termination.

#### **Article – 5: Previous Transgression**

1. The Bidder declares that no previous transgression occurred in the last 3 years immediately before signing of this integrity pact with any other Company in any country conforming to the anticorruption/Transparency International (TI) approach or with any other Public Sector Enterprise/Undertaking in India or any Government Department 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 or action for his exclusion can be taken as mentioned under Article-3 above for transgression of Article-2 and shall be liable for compensation for damages as per Article-4 above.

**Article – 6: Equal treatment of all Bidders/ Contractors/ Concessionaires/ Consultants/ Subcontractors**

1. The Bidder(s)/Contractor(s)/Concessionaire(s)/Consultant(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders/Contractors/Concessionaire/Consultant and Subcontractors.
3. The Principal will disqualify from the Tender process all Bidders who do not sign this Pact violate its provisions.

**Article – 7: Criminal charges against violating Bidder(s)/ Contractor(s)/ Concessionaire(s)/ Consultant(s)/ Sub-contractor(s)**

If the Principal obtains knowledge of conduct of a Bidder/ Contractor/ Concessionaire/ Consultant or Subcontractor, or of an employee or a representative or an associate of a Bidder/ Contractor/ Concessionaire/ Consultant 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.

**Article – 8: Independent External Monitor (IEM)**

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval from Central Vigilance Commission. The task of the Monitor 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/Contractor/Concessionaire/Consultant accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Bidder/ Contractor/ Concessionaire/ Consultant. The Bidder/ Contractor/ Concessionaire/ Consultant 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.
4. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractors(s) with confidentiality. The Monitor has also signed on 'Non-disclosure of Confidential Information' and of 'Absence of Conflict of

Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform CMD, RailTel and recuse himself/herself from that case.

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 Bidder/Contractor/Concessionaire/Consultant. The parties offer to the Monitor the option to participate in such meetings.
6. As soon as the Monitor notices, or believes to notice any transgression as given in Article- 2, he may request the Management of the Principal to take corrective action, or to take relevant action. The monitor can in this regard submit non-\*binding recommendations. 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.
7. The Monitor will submit a written report to the CMD, RailTel within 8-10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
8. If the Monitor has reported to the CMD, RailTel, a substantiated suspicion of an offence under relevant IPC/PC Act or any other Statutory Acts, and the CMD, RailTel has not, within the reasonable time taken visible action to proceed against such offence or reported it the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word 'Monitor' would include both singular and plural.

#### **Article – 9: Pact Duration**

This Pact begins when both parties have legally signed it. It expires for the Contractor/Consultant 12 months after his Defect Liability Period is over or 12 months after his last payment under the contract whichever is later and for all other unsuccessful Bidders, 6 months after this Contract has been awarded (In case of BOT projects). It expires for the concessionaire 24 months after his concession period is over and for all other unsuccessful Bidders 6 months after this Contract has been awarded. Any violation of the same would entail disqualification of the bidder and exclusion from future dealings.

If any claim is made/lodged 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.

#### **Article – 10: Other Provisions**

1. This pact 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 Bidder/Contractor/Concessionaire/Consultant is a partnership or a Joint Venture partner, this pact must be signed by all partners or members.

4. Should one or several provisions of this agreement turn out to be invalid, the reminder of this agreement remains valid, in this case, the parties will strive to come to an agreement to their original intentions.
5. Issue like warranty / Guarantee etc. shall be outside the purview of IEMs.
6. In the event of any contradiction between the Integrity Pact and its Annexure, the clause in Integrity Pact shall prevail.
7. Any dispute/differences arising between the parties with regard to term of this Pact, any action taken by the Principal in accordance with this Pact or interpretation thereof shall not be subject to any Arbitration.
8. The actions stipulated in the integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

In witness whereof, the parties have signed and executed this pact at the place and date first done mentioned in the presence of following witnesses: -

(For & On behalf of the (Principal)

(For & On behalf of Bidder/Contractor/  
Concessionaire/Consultant)

**Place:**

**Date:**

Witness 1:

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Witness 2:

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## **Annexure 7: Complete EoI Examination & Nil Deviation Certificate**

(To be submitted by Bidder)

To  
RailTel Corporation of India Ltd  
Western Railway Microwave Complex  
Senapati Bapat Marg, Near Railway Sports Ground  
Mahalaxmi, Mumbai – 400013

**Sub:** Complete EoI Examination & Nil Deviation Certificate

**Ref:** EoI Number: \_\_\_\_\_ Dated: \_\_\_\_\_

Dear Sir,

We <Bidder Name> having completely examined the referred EoI, its corrigendum and any other documents/its addendums/corrigendum referred in this EoI, conclude that we have understood the Terms & Conditions of the EoI and its subsequent addendums & corrigendum (if any) and any other documents/its addendums/corrigendum referred in this EoI. We declare that we have sought all clarifications for the same from RailTel or its end customer for anything contained in this EoI & any other documents/its addendums/ corrigendum referred in this EoI and have been satisfied with the clarifications to the fullest extent and there are no terms, clauses, conditions, etc which are ambiguous.

We also declare that there is no deviation from adhering to anything that is contained in this EoI and any other documents/its addendums/corrigendum referred in this EoI and that any deviation later raised by us shall lead to forfeiture of the Bid/Contract at complete discretion of RailTel.

Signature of Authorized Signatory (with official seal)

Name :  
Designation :  
Address :  
Telephone and Fax :  
E-mail address :

## **Annexure 8: Back to Back Compliance Certificate**

(To be submitted by Bidder)

To  
RailTel Corporation of India Ltd  
Western Railway Microwave Complex  
Senapati Bapat Marg, Near Railway Sports Ground  
Mahalaxmi, Mumbai – 400013

**Sub:** Complete back to back Compliance Certificate

**Ref:** 1) EoI Number: \_\_\_\_\_ Dated: \_\_\_\_\_

2) Tender Reference No DRM-SnT-ADI-Tele01 of 2025-26 and all of its addendums/  
corrigendum's & published documents

Dear Sir,

Considering reference 1 & 2 we would like to declare that we have read and understood the EoI, its corrigendum and any other documents/its addendums/corrigendum referred in this EoI thoroughly. We would like to give you our back to back compliance for all the tender terms and conditions, clauses, timelines, deliverables and anything explicitly mentioned in the EoI, its corrigendum and any other documents/its addendums/corrigendum referred in this EoI.

Signature of Authorized Signatory (with official seal)

Name :

Designation :

Address :

Telephone and Fax :

E-mail address :

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### **Annexure 9: Performance Bank Guarantee Format**

(For a sum of percentage of the value of the contract as per RailTel's end customer RFP/tender)  
(Stamp Duty to be confirmed by RailTel in co-ordination with RailTel's Legal Department)  
(Final Draft to be confirmed by RailTel Legal before BG issuance)

To  
RailTel Corporation of India Ltd  
Western Railway Microwave Complex  
Senapati Bapat Marg, Mahalaxmi  
Mumbai – 400013

WHEREAS:

\_\_\_\_\_name and address of Applicant] (hereinafter called “the Applicant”) and RailTel (the “Authority”) have entered into an agreement (the “Agreement”) for (1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building in the state of Maharashtra, subject to and in accordance with the provisions of the Agreement.

(A) The Agreement requires the Applicant to furnish a Performance Security for due and faithful performance of its obligations, under and in accordance with the Agreement, during the {Implementation Period/ Defects Liability Period and Maintenance Period} (as defined in the Agreement) in a sum of Rs \*\*\*\*\* Cr.

(B) We, ..... Through our branch at (The “Bank”) have agreed to furnish this bank guarantee (hereinafter called the “Guarantee”) by way of Performance Security. NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Applicant obligations during the {Implementation period /Defects Liability Period and maintenance period} under and in accordance with the Agreement, and agrees and undertakes to pay to the Authority, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Applicant, such sum or sums up to an aggregate sum of the Guarantee Amount as the Authority shall claim, without the Authority being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.
2. A letter from the Authority, under the hand of an officer not below the rank of General Manager in RailTel that the Applicant has committed default in the due and faithful

performance of all or any of its obligations under and in accordance with the Agreement shall be conclusive, final and binding on the Bank. The Bank further agrees that the Authority shall be the sole judge as to whether the Applicant is in default in due and faithful performance of its obligations during and under the Agreement and its decision that the Applicant is in default shall be final and binding on the Bank, notwithstanding any difference between the Authority and the Applicant, or any dispute between them pending before any court, tribunal, arbitrators or any other Authority or body, or by the discharge of the Applicant for any reason whatsoever.

3. In order to give effect to this Guarantee, the Authority shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Applicant and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Authority to proceed against the Applicant before presenting to the Bank its demand under this Guarantee.
5. The Authority shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Agreement or to extend the time or period for the compliance with, fulfilment and/or performance of all or any of the obligations of the Applicant contained in the Agreement or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Authority against the Applicant, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Agreement and/or the securities available to the Authority, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the Applicant or any other forbearance, indulgence, act or omission on the part of the Authority or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Authority in respect of or relating to the Agreement or for the fulfilment, compliance and/or performance of all or any of the obligations of the Applicant under the Agreement.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the guaranteed amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Authority on the Bank under this Guarantee all rights of the Authority under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on \*\*\*\*\*\$ unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.

9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Authority in writing and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Authority that the envelope was so posted shall be conclusive.
11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Authority pursuant to the provisions of the Agreement.

Signed and sealed this ..... day of ..... 20..... at ..... SIGNED, SEALED AND DELIVERED For and on behalf of the Bank by:  
(Signature) (Name) (Designation) (Code Number) (Address)

NOTES:

- a. The bank guarantee should contain the name, designation and code number of the officer(s) signing the guarantee.
- b. The address, telephone number and other details of the head office of the Bank as well as of issuing branch should be mentioned on the covering letter of issuing branch

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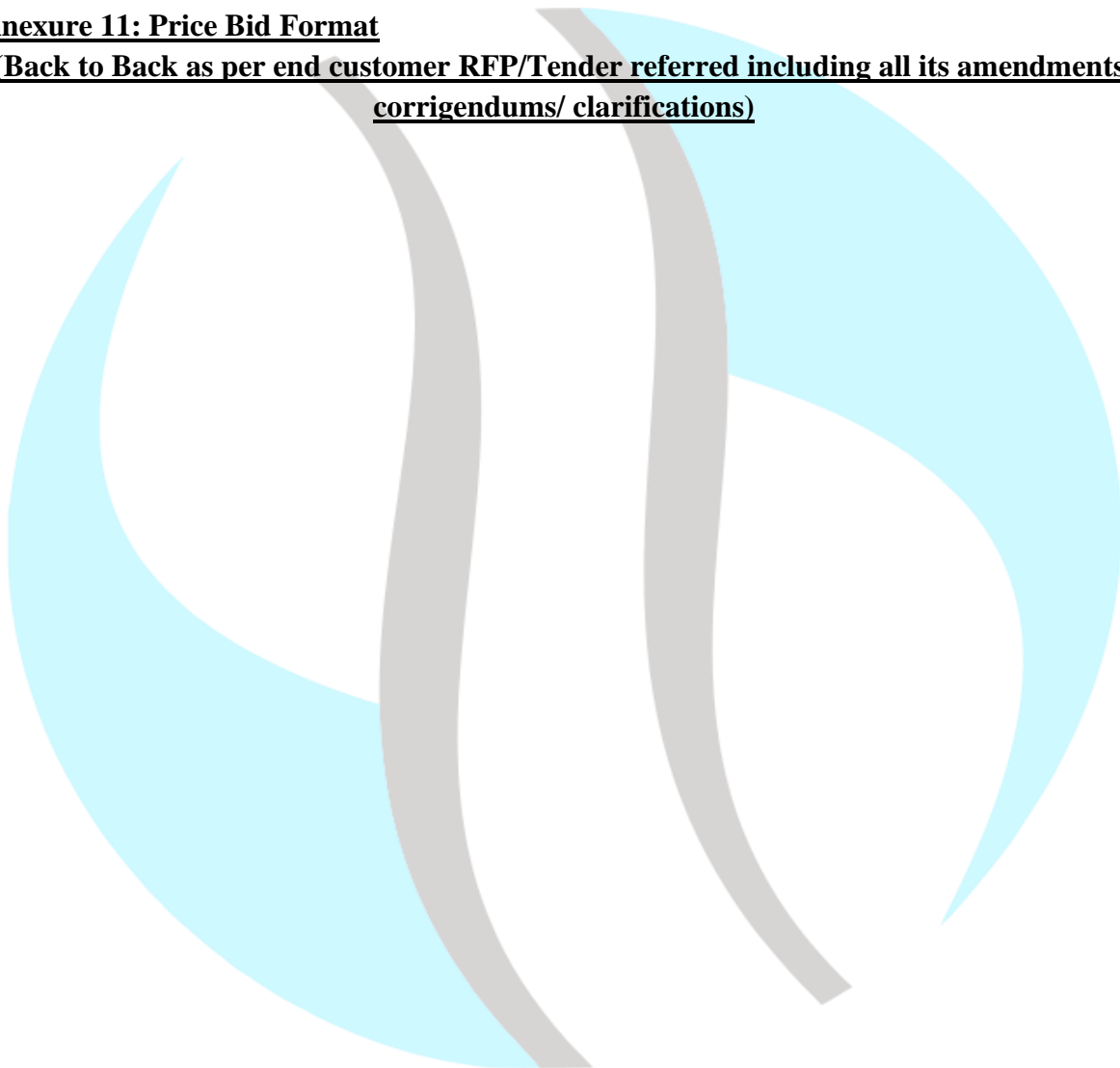
### **Annexure 10: Agreement Draft Format**

(As per Tender No. DRM-SnT-ADI-Tele01 of 2025-26 and any if its addendums/ corrigendum's/ clarifications issued by the Tender floating authority. The agreement will be signed with selected Bidder on Back to Back basis and will be binding upon the parties)



**Annexure 11: Price Bid Format**

**(Back to Back as per end customer RFP/Tender referred including all its amendments/  
corrigendums/ clarifications)**



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**Annexure 12: BoQ**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate
	<b>Schedule () A1-SUPPLY</b>			
01	<b>Description:- Supply of 24 Port manageable switch10/100/1000base T with four or more 1000base x Layer 2 switch ( 2nos1000 LX (Fiber up link) complete with SFP transceiver module + POE including ) as per specification.</b>	<b>6.00</b>	<b>Numbers</b>	
02	<b>Description:- Supply of 8-Port with 2 port SFP Networking Switch with POE , as per RDSO Specification No.RDSO/ SPN/ TC/ 65/2016,Rev.4.0</b>	<b>10.00</b>	<b>Numbers</b>	
03	<b>Description:- Supply of HDMI cable 3 meter length as per technical specification.</b>	<b>13.00</b>	<b>Numbers</b>	
04	<b>Description:- Supply of HDMI CABLE 10METER long as per specification. INSPECTION BY CONSIGNEE.</b>	<b>13.00</b>	<b>Numbers</b>	
05	<b>Description:- Supply of HDMI SPLITTER 1 Input &amp; 8 output Full HD compatible with HDMI video source devices with AC to DC adapter as per technical specification..</b>	<b>4.00</b>	<b>Numbers</b>	
06	<b>Description:- Supply of Three Core PVC Power Cable as per as per specification.</b>	<b>2500.00</b>	<b>Metre</b>	
07	<b>Description:- Supply of Portable Work Station for data input and configuration with necessary software/program/Accessories, Simulation and functional testing, diagnostics and trouble shooting as per technical specification..</b>	<b>6.00</b>	<b>Numbers</b>	
08	<b>Description:- Supply of WI-FI USB adapter for PC as per specification</b>	<b>5.00</b>	<b>Numbers</b>	
09	<b>Description:- Supply of Wi-Fi base unit (Wi-Fi Router) as per technical specification &amp; its standard installation.</b>	<b>6.00</b>	<b>Numbers</b>	
10	<b>Description:- Supply of Remote Craft Terminal as per Specification.</b>	<b>2.00</b>	<b>Numbers</b>	
11	<b>Description:- Supply of 75" TV as per Technical Specifications.</b>	<b>1.00</b>	<b>Numbers</b>	



12	Description:- Supply of 10TB Surveillance Hard Disk & its standard installation as per specification.	5.00	Numbers	
13	Description:- Supply of maintenance free earth electrode as per RDSO/SPN/ 197/2008 or latest.	6.00	Numbers	
14	Description:- Supply of RCC Earth Chamber as per site requirement.	6.00	Numbers	
15	Description:- Supply of Single mode Optical Fiber cable 6 cores armoured as per technical specification.	6000.00	Metre	
16	Description:- Supply of 25 mm dia. HDPE pipe (TEC spec. No. G/CDS-08/02, Nov'04 or latest) as per specification.	6000.00	Metre	
17	Description:- Supply of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable as per specification.	10.00	Lumpsum	
18	Description:- Supply of RJ-45 connectors as per specification.	100.00	Numbers	
19	Description:- Supply of STP CAT-6 Cable as per specification.	3355.00	Metre	
20	Description:- Supply of PVC Pipe 25 mm dia ISI mark & reputed make as per specification.	3355.00	Metre	
21	Description:- Supply of wall mounting 19" 15U rack as per specification.	2.00	Numbers	
22	Description:- Supply of Online UPS 1 KVA with minimum 1 hour backup as per technical specification.	6.00	Numbers	
23	Description:- Supply of Computer table as per specification.	6.00	Numbers	
24	Description:- Supply of Revolving Chair with arms and backup foam cushion with tapestry cocer, Ms type frame cushion are Godrej foam or similar , MS base central titill back push hydraulic system as per specification.	8.00	Numbers	
25	Description:- Face /Finger/Card Based Machine attendance system for access real time attendance as per technical specification & with 3 years of Warranty.	4.00	Numbers	

26	Description:- Attendance software for generate daily monthly absent present report as per technical specification & with 3 years of Warranty.	1.00	Numbers	
27	Description:- Industrial PC i5 desktop server with SQL and window 11, for install attendance software as per technical specification & with 3 years of Warranty.	1.00	Numbers	
28	Description:- UPS for battery backup for all system as per technical specification & with 3 years of Warranty.	2.00	Numbers	
29	Description:- Device protection box for biometric machine as per site requirement with 3 years of Warranty.	4.00	Numbers	
30	Description:- 2 MP IP bullet camera for cover biometric system area as per technical specification with 3 years of Warranty.	2.00	Numbers	
31	Description:- Monitor and operating console for CCTV as per technical specification with 3 years of Warranty.	1.00	Numbers	
32	Description:- 4 channel NVR for recording camera as per technical specification with 3 years of Warranty.	1.00	Numbers	
33	Description:- 1 TB hard disk storage for camera live viewing as per technical specification with 3 years of Warranty.	1.00	Numbers	
34	Description:- 4 U Rack for mounting POE Switch and accessories as per technical specification with 3 years of Warranty.	2.00	Numbers	
35	Description:- POE Switch 8 port for Ethernet and power Supply providing machine and camera as per technical specification with 3 years of Warranty.	3.00	Numbers	
36	Description:- Office working Table for operating console location locations time office and WM Office.	2.00	Numbers	

37	Description:- Module to connect OFC cable throw Ethernet pair as per technical specification with 3 years of Warranty.	2.00	Pair	
38	Description:- Office working chair for operating console locations time office and WM Office.	2.00	Numbers	
39	Description:- Electric power point with cable as per technical specification.	5.00	Numbers	
40	Description:- Supply of Fiber Media Convertor as per technical specification.	20.00	Numbers	
	Schedule () A2-SUPPLY			
02	Description:- Supply of Portable Work Station for data input and configuration with necessary software/program/Accessories, Simulation and functional testing, diagnostics and trouble shooting as per technical specification.	4.00	Numbers	
03	Description:- Supply of 75" TV as per Technical Specifications.	1.00	Numbers	
07	Description:- Supply of offline UPS 1 KVA with 60 min backup as per technical specification.	300.00	Numbers	
11	Description:- Supply of 8-Port with 2 port SFP Networking Switch with POE , as per RDSO Specification No.RDSO/ SPN/ TC/ 65/2016,Rev.4.0	300.00	Numbers	
12	Description:- Supply of different color patch cord factory crimping as per specification.	700.00	Numbers	
13	Description:- Supply of Single mode LC-LC/LC-SC/SC-SC optical patch cord as per specification.	300.00	Numbers	
14	Description:- Supply of RJ45 connector as per specifications.	3000.00	Numbers	
15	Description:- Supply of 4 TB Surveillance HDD as per technical specification.	300.00	Numbers	
16	Description:- Supply of Fiber Media Convertor as per technical specification.	140.00	Numbers	
17	Description:- Supply of Single mode Optical Fiber cable 6 cores armoured as per technical specification.	8650.00	Metre	
	Schedule () A3-SUPPLY			
01	Description:- Supply of MUX E1 BRANCHING INTERFACE CARD as per technical specification.	4.00	Numbers	

02	Description:- Supply of 25 mm dia. HDPE pipe (TEC spec. No. G/CDS-08/02, Nov'04 or latest) as per specification.	8650.00	Running Metre	
03	Description:- Supply of Maintenance free VRLA Batteries set of 48V- 200AH and its standard installation as per latest RDSO specification.	30.00	Set	
04	Description:- Supply of SMPS based Battery Charger suitable for both low maintenance & maintenance free battery & its standard installation as per RDSO specification.	10.00	Numbers	
05	Description:- Supply of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable as per specification.	50.00	Lumpsum	
06	Description:- Supply of maintenance free earth electrode of length 3 m,including supply of 3 bag of earth enhancement material for earthing (10 kg/bag)for each electrode & other accessories as per Drg.No.SDO/RDSO/E&B/001 and RDSO spec No.RDSO/SPN/197/2008.	15.00	Numbers	
07	Description:- Supply of RCC Earth Chamber.	15.00	Numbers	
08	Description:- Supply of Standard 19" Rack Mountable -48V DC Working Add-Drop STM-4 SDH Equipment conforming to TEC GR No: GR/SDH-010/003. JAN 2011 (with latest amendment ) complete with, redundant power supply, 2 Nos STM 4 of Aggregate L.4.2 Optical Interface Modules/Cards one each for East and West side TX/RX and 2 nos of STM-1 S1.1 optical interface modules complete with 5 mts. long Optical Patch Cords.	5.00	Numbers	
09	Description:- Supply of 2MB programmable primary digital drop insert multiplexer (webfil/puncom) as per RDSO specs. IRS-TC 68/2012 Amd 1 or latest . As per site requirement.	12.00	Numbers	
10	Description:- Supply of AIOPC for NMS support as per technical specification.	5.00	Numbers	

11	Description:- Steel Plain Almirah with 4 adjustable slaves Size: 1980mm height, 915 mm width and 485 mm depth as per technical specification.	10.00	Numbers	
12	Description:- Supply of Office chair. As per Site requirement.	25.00	Numbers	
13	Description:- Office Revolving Chair will be specified by Engineer in-charge.	15.00	Numbers	
14	Description:- 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. will be specified by Engineer in-charge.	15.00	Numbers	
15	Description:- Supply of Standard Throw (0.91 to 2.5) Multimedia Projector (MMP) With 1280 x 800 (WXGA) Resolution as per specification.	3.00	Numbers	
16	Description:- Supply of Projector Screen of Size 10' x 8' motorised glass based with remote.	4.00	Numbers	
17	Description:- Supply of Wooden Podium of standard dimensions with Drop Down Work Surface, cable manager etc. covered with 3M DI-NOC filmed as per designed approved by site in charge.	1.00	Numbers	
18	Description:- Supply of Gooseneck PA Microphones with stand as per technical specification.	6.00	Numbers	
19	Description:- Supply of Main Array able 12" Two way, Full range loudspeaker system with required all complete accessories for installation as per technical specification.	4.00	Numbers	
20	Description:- Supply of stage monitor power loud speakers with required all complete accessories for installation as per technical specification.	2.00	Numbers	
21	Description:- Supply of Two-in/six-out Digital sound system processor, with required all complete accessories for installation as per technical specification.	2.00	Numbers	
22	Description:- Supply of Front Fill, 8" Two-way Loud speaker with required all complete accessories for installation as per technical	4.00	Numbers	

	specification.			
23	Description:- Supply of Dual channel 1800 W,Class-H power amplifier, for arrayspeakers & subwoofer with required all complete accessories for installation as per technical specification.	4.00	Numbers	
24	Description:- Supply of dual channel 650 W,class-AB power amplifier, for Front Fill speakers with required all complete accessories for installation as per technical specification.	2.00	Numbers	
25	Description:- Supply of 16 channel audio mixer with digital audio mixer with digital audio interface with required all complete accessories for installation as per technical specification.	1.00	Numbers	
26	Description:- Supply of Sine Wave output Voltage inverter of 2.0 KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640with trolley stand as per technical specification.	2.00	Numbers	

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**AHMEDABAD DIVISION-S AND T/WESTERN RLY  
TENDER DOCUMENT**

**Tender No:** DRM-SnT-ADI-Tele01of25-26

**Closing Date/Time:** 22/05/2025 15:00

**DRM/S and T** acting for and on behalf of The President of India invites E-Tenders against Tender No **DRM-SnT-ADI-Tele01of25-26** Closing Date/Time 22/05/2025 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

**1. NIT HEADER**

<b>Name of Work</b>	(1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3)Provision of Telecom facilities for New NOCC Building.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Single Packet System
<b>Tender Closing Date Time</b>	22/05/2025 15:00	<b>Date Time Of Uploading Tender</b>	24/04/2025 17:25
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	74712807.17	<b>Tendering Section</b>	W5
<b>Bidding Style</b>	Single Rate for Tender	<b>Bidding Unit</b>	Above/Below/Par
<b>Earnest Money (Rs.)</b>	523600.00	<b>Validity of Offer ( Days)</b>	60
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	18 Months
<b>Contract Type</b>	Works - General	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	08/05/2025		
<b>Are JV allowed to bid</b>	No	<b>Number of JV Member Allowed</b>	0
<b>Are Consortium allowed to bid</b>	No	<b>Number of Consortium Member Allowed</b>	0
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () A1-SUPPLY</b>							3643314.59	
01	01	6.00	Numbers	41435.00	248610.00	AT Par	248610.00	
	<b>Description:-</b> Supply of 24 Port manageable switch10/100/1000base T with four or more 1000base x Layer 2 switch ( 2nos1000 LX (Fiber up link) complete with SFP transceiver module + POE including ) as per specification.							
02	02	10.00	Numbers	22703.00	227030.00	AT Par	227030.00	
	<b>Description:-</b> Supply of 8-Port with 2 port SFP Networking Switch with POE , as per RDSO Specification No.RDSO/ SPN/ TC/ 65/2016,Rev.4.0							
03	03	13.00	Numbers	507.00	6591.00	AT Par	6591.00	
	<b>Description:-</b> Supply of HDMI cable 3 meter length as per technical specification.							
04	04	13.00	Numbers	1437.00	18681.00	AT Par	18681.00	
	<b>Description:-</b> Supply of HDMI CABLE 10METER long as per specification. INSPECTION BY CONSIGNEE.							
05	05	4.00	Numbers	2285.00	9140.00	AT Par	9140.00	
	<b>Description:-</b> Supply of HDMI SPLITTER 1 Input & 8 output Full HD compatible with HDMI video source devices with AC to DC adapter as per technical specification..							
06	06	2500.00	Metre	41.19	102975.00	AT Par	102975.00	
	<b>Description:-</b> Supply of Three Core PVC Power Cable as per as per specification.							
07	07	6.00	Numbers	129765.79	778594.74	AT Par	778594.74	
	<b>Description:-</b> Supply of Portable Work Station for data input and configuration with necessary software/program/Accessories, Simulation and functional testing, diagnostics and trouble shooting as per technical specification..							
08	08	5.00	Numbers	654.27	3271.35	AT Par	3271.35	
	<b>Description:-</b> Supply of WI-FI USB adapter for PC as per specification							
09	09	6.00	Numbers	1817.40	10904.40	AT Par	10904.40	
	<b>Description:-</b> Supply of Wi-Fi base unit (Wi-Fi Router) as per technical specification & its standard installation.							
10	10	2.00	Numbers	68447.00	136894.00	AT Par	136894.00	

**AHMEDABAD DIVISION-S AND T/WESTERN RLY  
TENDER DOCUMENT**

**Tender No:** DRM-SnT-ADI-Tele01of25-26

**Closing Date/Time:** 22/05/2025 15:00

		<b>Description:-</b> Supply of Remote Craft Terminal as per Specification.					
11	11	1.00	Numbers	136575.97	136575.97	AT Par	136575.97
		<b>Description:-</b> Supply of 75" TV as per Technical Specifications.					
12	12	5.00	Numbers	26613.00	133065.00	AT Par	133065.00
		<b>Description:-</b> Supply of 10TB Surveillance Hard Disk & its standard installation as per specification.					
13	13	6.00	Numbers	10403.08	62418.48	AT Par	62418.48
		<b>Description:-</b> Supply of maintenance free earth electrode as per RDSO/SPN/ 197/2008 or latest.					
14	14	6.00	Numbers	649.00	3894.00	AT Par	3894.00
		<b>Description:-</b> Supply of RCC Earth Chamber as per site requirement.					
15	15	6000.00	Metre	30.00	180000.00	AT Par	180000.00
		<b>Description:-</b> Supply of Single mode Optical Fiber cable 6 cores armoured as per technical specification.					
16	16	6000.00	Metre	36.00	216000.00	AT Par	216000.00
		<b>Description:-</b> Supply of 25 mm dia. HDPE pipe (TEC spec. No. G/CDS-08/02, Nov'04 or latest) as per specification.					
17	17	10.00	Lumpsum	11765.00	117650.00	AT Par	117650.00
		<b>Description:-</b> Supply of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable as per specification.					
18	18	100.00	Numbers	11.00	1100.00	AT Par	1100.00
		<b>Description:-</b> Supply of RJ-45 connectors as per specification.					
19	19	3355.00	Metre	43.65	146445.75	AT Par	146445.75
		<b>Description:-</b> Supply of STP CAT-6 Cable as per specification.					
20	20	3355.00	Metre	20.78	69716.90	AT Par	69716.90
		<b>Description:-</b> Supply of PVC Pipe 25 mm dia ISI mark & reputed make as per specification.					
21	21	2.00	Numbers	11259.00	22518.00	AT Par	22518.00
		<b>Description:-</b> Supply of wall mounting 19" 15U rack as per specification.					
22	22	6.00	Numbers	24019.00	144114.00	AT Par	144114.00
		<b>Description:-</b> Supply of Online UPS 1 KVA with minimum 1 hour backup as per technical specification.					
23	23	6.00	Numbers	8001.00	48006.00	AT Par	48006.00
		<b>Description:-</b> Supply of Computer table as per specification.					
24	24	8.00	Numbers	3866.00	30928.00	AT Par	30928.00
		<b>Description:-</b> Supply of Revolving Chair with arms and backup foam cushion with tapestry coter, Ms type frame cushion are Godrej foam or similar , MS base central titill back push hydraulic system as per specification.					
25	25	4.00	Numbers	64900.00	259600.00	AT Par	259600.00
		<b>Description:-</b> Face /Finger/Card Based Machine attendance system for access real time attendance as per technical specification & with 3 years of Warranty.					
26	26	1.00	Numbers	94400.00	94400.00	AT Par	94400.00
		<b>Description:-</b> Attendance software for generate daily monthly absent present report as per technical specification & with 3 years of Warranty.					
27	27	1.00	Numbers	141600.00	141600.00	AT Par	141600.00
		<b>Description:-</b> Industrial PC i5 desktop server with SQL and window 11, for install attendance software as per technical specification & with 3 years of Warranty.					
28	28	2.00	Numbers	7198.00	14396.00	AT Par	14396.00
		<b>Description:-</b> UPS for battery backup for all system as per technical specification & with 3 years of Warranty.					
29	29	4.00	Numbers	5310.00	21240.00	AT Par	21240.00
		<b>Description:-</b> Device protection box for biometric machine as per site requirement with 3 years of Warranty.					
30	30	2.00	Numbers	6490.00	12980.00	AT Par	12980.00
		<b>Description:-</b> 2 MP IP bullet camera as per RDSO/SPN/TCN/65/2021 Version 6 or latest for covering biometric system area.					
31	31	1.00	Numbers	7080.00	7080.00	AT Par	7080.00
		<b>Description:-</b> Monitor and operating console for CCTV as per technical specification with 3 years of Warranty.					
32	32	1.00	Numbers	10030.00	10030.00	AT Par	10030.00
		<b>Description:-</b> 4 channel NVR for recording camera as per technical specification with 3 years of Warranty.					

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33	33	1.00	Numbers	6490.00	6490.00	AT Par	6490.00	
	<b>Description:-</b> 1 TB hard disk storage for camera live viewing as per technical specification with 3 years of Warranty.							
34	34	2.00	Numbers	590.00	1180.00	AT Par	1180.00	
	<b>Description:-</b> 4 U Rack for mounting POE Switch and accessories as per technical specification with 3 years of Warranty.							
35	35	3.00	Numbers	10030.00	30090.00	AT Par	30090.00	
	<b>Description:-</b> POE Switch 8 port for Ethernet and power Supply providing machine and camera as per technical specification with 3 years of Warranty.							
36	36	2.00	Numbers	17700.00	35400.00	AT Par	35400.00	
	<b>Description:-</b> Office working Table for operating console location locations time office and WM Office.							
37	37	2.00	Pair	11210.00	22420.00	AT Par	22420.00	
	<b>Description:-</b> Module to connect OFC cable throw Ethernet pair as per technical specification with 3 years of Warranty.							
38	38	2.00	Numbers	11210.00	22420.00	AT Par	22420.00	
	<b>Description:-</b> Office working chair for operating console locations time office and WM Office.							
39	39	5.00	Numbers	2301.00	11505.00	AT Par	11505.00	
	<b>Description:-</b> Electric power point with cable as per technical specification.							
40	40	20.00	Numbers	4868.00	97360.00	AT Par	97360.00	
	<b>Description:-</b> Supply of Fiber Media Convertor as per technical specification.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A2-SUPPLY</b>							17277206.13	
01	01	300.00	Numbers	7598.00	2279400.00	AT Par	2279400.00	
	<b>Description:-</b> Supply of Full HD Fixed Dome Type IP Colour Camera as per RDSO/SPN/TCN/65/2021 Version 6 or latest.							
02	02	4.00	Numbers	129765.79	519063.16	AT Par	519063.16	
	<b>Description:-</b> Supply of Portable Work Station for data input and configuration with necessary software/program/Accessories, Simulation and functional testing, diagnostics and trouble shooting as per technical specification.							
03	03	1.00	Numbers	136575.97	136575.97	AT Par	136575.97	
	<b>Description:-</b> Supply of 75" TV as per Technical Specifications.							
04	04	600.00	Numbers	491.00	294600.00	AT Par	294600.00	
	<b>Description:-</b> Supply of Back Box for camera as per specifications.							
05	05	17300.00	Metre	41.19	712587.00	AT Par	712587.00	
	<b>Description:-</b> Supply of Three Core PVC Power Cable as per as per specification.							
06	06	8650.00	Metre	36.00	311400.00	AT Par	311400.00	
	<b>Description:-</b> Supply of casing capping 38x16mm ISI as per technical specification.							
07	07	300.00	Numbers	4768.00	1430400.00	AT Par	1430400.00	
	<b>Description:-</b> Supply of offline UPS 1 KVA with 60 min backup as per technical specification.							
08	08	23000.00	Metre	43.65	1003950.00	AT Par	1003950.00	
	<b>Description:-</b> Supply of STP CAT-6 Cable as per specification.							
09	09	23000.00	Metre	20.78	477940.00	AT Par	477940.00	
	<b>Description:-</b> Supply of PVC Pipe 25 mm dia ISI mark & reputed make as per specification.							
10	10	25.00	Numbers	6861.00	171525.00	AT Par	171525.00	
	<b>Description:-</b> 6U Network Rack for Switch and UPS system as per technical specifications.							
11	11	300.00	Numbers	22703.00	6810900.00	AT Par	6810900.00	
	<b>Description:-</b> Supply of 8-Port with 2 port SFP Networking Switch with POE , as per RDSO Specification No.RDSO/ SPN/ TC/ 65/2016,Rev.4.0							
12	12	700.00	Numbers	218.00	152600.00	AT Par	152600.00	
	<b>Description:-</b> Supply of different color patch cord factory crimping as per specification.							
13	13	300.00	Numbers	134.35	40305.00	AT Par	40305.00	
	<b>Description:-</b> Supply of Single mode LC-LC/LC-SC/SC-SC optical patch cord as per specification.							
14	14	3000.00	Numbers	12.08	36240.00	AT Par	36240.00	
	<b>Description:-</b> Supply of RJ45 connector as per specifications.							
15	15	300.00	Numbers	6529.00	1958700.00	AT Par	1958700.00	

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	<b>Description:-</b> Supply of 4 TB Surveillance HDD as per technical specification.							
16	16	140.00	Numbers	4868.00	681520.00	AT Par	681520.00	
	<b>Description:-</b> Supply of Fiber Media Convertor as per technical specification.							
17	17	8650.00	Metre	30.00	259500.00	AT Par	259500.00	
	<b>Description:-</b> Supply of Single mode Optical Fiber cable 6 cores armoured as per technical specification.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule ( ) A3-SUPPLY</b>							11165535.89	
01	01	4.00	Numbers	29767.86	119071.44	AT Par	119071.44	
	<b>Description:-</b> Supply of MUX E1 BRANCHING INTERFACE CARD as per technical specification.							
02	02	8650.00	Running Metre	36.00	311400.00	AT Par	311400.00	
	<b>Description:-</b> Supply of 25 mm dia. HDPE pipe (TEC spec. No. G/CDS-08/02, Nov'04 or latest) as per specification.							
03	03	30.00	Set	69139.89	2074196.70	AT Par	2074196.70	
	<b>Description:-</b> Supply of Maintenance free VRLA Batteries set of 48V- 200AH and its standard installation as per latest RDSO specification.							
04	04	10.00	Numbers	96566.24	965662.40	AT Par	965662.40	
	<b>Description:-</b> Supply of SMPS based Battery Charger suitable for both low maintenance & maintenance free battery & its standard installation as per RDSO specification.							
05	05	50.00	Lumpsum	11765.00	588250.00	AT Par	588250.00	
	<b>Description:-</b> Supply of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable as per specification.							
06	06	15.00	Numbers	10403.08	156046.20	AT Par	156046.20	
	<b>Description:-</b> Supply of maintenance free earth electrode of length 3 m,including supply of 3 bag of earth enhancement material for earthing (10 kg/bag)for each electrode & other accessories as per Drg.No.SDO/RDSO/E&B/001 and RDSO spec No.RDSO/SPN/197/2008.							
07	07	15.00	Numbers	649.00	9735.00	AT Par	9735.00	
	<b>Description:-</b> Supply of RCC Earth Chamber.							
08	08	5.00	Numbers	348072.00	1740360.00	AT Par	1740360.00	
	<b>Description:-</b> Supply of Standard 19" Rack Mountable -48V DC Working Add-Drop STM-4 SDH Equipment conforming to TEC GR No: GR/SDH-010/003. JAN 2011 (with latest amendment ) complete with, redundant power supply, 2 Nos STM 4 of Aggregate L.4.2 Optical Interface Modules/Cards one each for East and West side TX/RX and 2 nos of STM-1 S1.1 optical interface modules complete with 5 mts. long Optical Patch Cords.							
09	09	12.00	Numbers	193619.00	2323428.00	AT Par	2323428.00	
	<b>Description:-</b> Supply of 2MB programmable primary digital drop insert multiplexer (webfil/puncom) as per RDSO specs. IRS-TC 68/2012 Amd 1 or latest . As per site requirement.							
10	10	5.00	Numbers	55855.80	279279.00	AT Par	279279.00	
	<b>Description:-</b> Supply of AIOPC for NMS support as per technical specification.							
11	11	10.00	Numbers	17036.67	170366.70	AT Par	170366.70	
	<b>Description:-</b> Steel Plain Almirah with 4 adjustable slaves Size: 1980mm height, 915 mm width and 485 mm depth as per technical specification.							
12	12	25.00	Numbers	2655.97	66399.25	AT Par	66399.25	
	<b>Description:-</b> Supply of Office chair. As per Site requirement.							
13	13	15.00	Numbers	8188.30	122824.50	AT Par	122824.50	
	<b>Description:-</b> Office Revolving Chair will be specified by Engineer in-charge.							
14	14	15.00	Numbers	16052.54	240788.10	AT Par	240788.10	
	<b>Description:-</b> 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. will be specified by Engineer in-charge.							
15	15	3.00	Numbers	115277.98	345833.94	AT Par	345833.94	
	<b>Description:-</b> Supply of Standard Throw (0.91 to 2.5) Multimedia Projector (MMP) With 1280 x 800 (WXGA) Resolution as per specification.							
16	16	4.00	Numbers	21436.17	85744.68	AT Par	85744.68	
	<b>Description:-</b> Supply of Projector Screen of Size 10' x 8' motorised glass based with remote.							
17	17	1.00	Numbers	24858.66	24858.66	AT Par	24858.66	
	<b>Description:-</b> Supply of Wooden Podium of standard dimensions with Drop Down Work Surface, cable manager etc. covered with 3M DI-NOC filmed as per designed approved by site in charge.							

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18	18	6.00	Numbers	9249.99	55499.94	AT Par	55499.94	
	<b>Description:-</b> Supply of Gooseneck PA Microphones with stand as per technical specification.							
19	19	4.00	Numbers	119700.23	478800.92	AT Par	478800.92	
	<b>Description:-</b> Supply of Main Array able 12" Two way, Full range loudspeaker system with required all complete accessories for installation as per technical specification.							
20	20	2.00	Numbers	40848.72	81697.44	AT Par	81697.44	
	<b>Description:-</b> Supply of stage monitor power loud speakers with required all complete accessories for installation as per technical specification.							
21	21	2.00	Numbers	53437.63	106875.26	AT Par	106875.26	
	<b>Description:-</b> Supply of Two-in/six-out Digital sound system processor, with required all complete accessories for installation as per technical specification.							
22	22	4.00	Numbers	23611.97	94447.88	AT Par	94447.88	
	<b>Description:-</b> Supply of Front Fill, 8" Two-way Loud speaker with required all complete accessories for installation as per technical specification.							
23	23	4.00	Numbers	83698.24	334792.96	AT Par	334792.96	
	<b>Description:-</b> Supply of Dual channel 1800 W,Class-H power amplifier, for arrayspeakers & subwoofer with required all complete accessories for installation as per technical specification.							
24	24	2.00	Numbers	40575.32	81150.64	AT Par	81150.64	
	<b>Description:-</b> Supply of dual channel 650 W,class-AB power amplifier, for Front Fill speakers with required all complete accessories for installation as per technical specification.							
25	25	1.00	Numbers	228663.36	228663.36	AT Par	228663.36	
	<b>Description:-</b> Supply of 16 channel audio mixer with digital audio mixer with digital audio interface with required all complete accessories for installation as per technical specification.							
26	26	2.00	Numbers	39681.46	79362.92	AT Par	79362.92	
	<b>Description:-</b> Supply of Sine Wave output Voltage inverter of 2.0 KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640with trolley stand as per technical specification.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B1-SUPPLY AND INSTALLATION</b>							5753678.44	
01	01	10.00	Numbers	804.00	8040.00	AT Par	8040.00	
	<b>Description:-</b> Installation, testing & commissioning of 8 Port POE L2 switch.							
02	02	6.00	Numbers	10812.00	64872.00	AT Par	64872.00	
	<b>Description:-</b> Supply & installation of 9U rack with all accessories as per specification.							
03	03	12.00	Numbers	2026.50	24318.00	AT Par	24318.00	
	<b>Description:-</b> Supply ,installation, testing and commissioning of Wi-Fi range extender as per specification.							
04	04	10.00	Numbers	44577.00	445770.00	AT Par	445770.00	
	<b>Description:-</b> Supply, installation, testing and commissioning of full HD high speed P/T/Z IP colour cameras [Day/ Night] along with128 GB SD Card or Higher, housing and mount, day/night configuration and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021,Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera.							
05	05	10.00	Numbers	19922.00	199220.00	AT Par	199220.00	
	<b>Description:-</b> Supply and testing of 8 TB surveillance Harddisk with SATA 6.0Gbps, 7200 RPM,work load rate- 300TB/year as per technical specification.							
06	06	3.00	Set	307090.71	921272.13	AT Par	921272.13	
	<b>Description:-</b> Supply and installation of Network Video Recorder (NVR) of 32 Channels with storage including required software & licenses with redundant NVR in 1:1 i.e. 2 nos as per technical specification.							
07	07	6.00	Numbers	1456.79	8740.74	AT Par	8740.74	
	<b>Description:-</b> Installation, testing & commissioning of maintenance free earth electrode as per RDSO/SPN/ 197/2008 or latest.							
08	08	6000.00	Metre	21.00	126000.00	AT Par	126000.00	
	<b>Description:-</b> Laying of OFC/Power cable/CAT-6/ PVC cable through HDPE pipe/casing capping/fall ceiling with laying/fixing of HDPE pipe/casing capping for interfacing various components and system integration. All materials for jointing and termination of power cable as per site requirement are to be supplied by contractor.							
09	09	10.00	Lumpsum	3054.00	30540.00	AT Par	30540.00	

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	<b>Description:-</b> Installation of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable as per specification.							
10	10	3355.00	Metre	12.00	40260.00	AT Par	40260.00	
	<b>Description:-</b> Laying of STP/UTP CAT-6 /PVC cable through steel pipes/casing capping etc wall /floor /roof. This includes fixing and clipping of casing capping / Rosette boxes at the locations/sites as per the direction of the engineer in charge of the work with all necessary fitting materials and cutting of masonry wall at the entry of room, repairing of masonry wall, cement plastering at per site requirement are to be supplied by contractor.							
11	11	2.00	Numbers	933.00	1866.00	AT Par	1866.00	
	<b>Description:-</b> Installation and wiring of supplied 15U/12U/9U rack with all installation material and restoration of wall in original condition.							
12	12	1.00	Numbers	180314.57	180314.57	AT Par	180314.57	
	<b>Description:-</b> Supply, Installation, Testing & Commissioning of 10 KVA UPS with battery backup and suitable rack as per technical specification.							
13	13	1500.00	Running Metre	1187.85	1781775.00	AT Par	1781775.00	
	<b>Description:-</b> Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 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 Mtr long. The HDD with or without HDPE pipe as per direction of Engineer In charge. Note: HDPE pipe supply is taken as separate item. This item also includes cable laying (HDD boring).							
14	14	1.00	Numbers	426250.00	426250.00	AT Par	426250.00	
	<b>Description:-</b> Supply, Installation and commissioning of Projector cum PC as per technical specification.							
15	15	1000.00	cum	839.00	839000.00	AT Par	839000.00	
	<b>Description:-</b> Excavation of cable trench as per cable route plan, 1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr wide advised by Engineer-in-charge 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 Western Railway and instructions of Railway Engineer at site. In case 1m 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 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.							
16	16	60.00	Numbers	9744.00	584640.00	AT Par	584640.00	
	<b>Description:-</b> Supply, installation, testing and commissioning of full HD Bullet type IP colour Camera as per RDSO Spec No RDSO/SPN/TC/65/2021,Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera							
17	17	1.00	Job	70800.00	70800.00	AT Par	70800.00	
	<b>Description:-</b> Labour charges for installation and commissioning face attendance machine ,software ,PC, UPS, Camera, NVR, Hard disk, pipe cat6 cable ,ofc cable ,4 U rack, POE Switch, Module etc as per technical specification.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule () B2-SUPPLY AND INSTALLATION</b>							34838305.00	
01	01	300.00	Numbers	607.00	182100.00	AT Par	182100.00	
	<b>Description:-</b> Installation, testing & commissioning of Dome camera with associated, Firmware, software.							
02	02	600.00	Numbers	9744.00	5846400.00	AT Par	5846400.00	
	<b>Description:-</b> Supply, installation, testing and commissioning of full HD Bullet type IP colour Camera along with 128 GB SD Card or Higher, housing and mount, day/night configuration and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021,Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera.							
03	03	600.00	Numbers	252.00	151200.00	AT Par	151200.00	
	<b>Description:-</b> Installation, testing & commissioning of back box of cameras.							
04	04	13.00	Numbers	31969.00	415597.00	AT Par	415597.00	
	<b>Description:-</b> Supply, installation, testing & commissioning of 43" Smart(Android LED TV) display of confirming as per technical specification With HDMI port. Installation as per engineer in charge.							
	05	23000.00	Metre	12.00	276000.00	AT Par	276000.00	



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05	<b>Description:-</b> Laying of STP/UTP CAT-6 /PVC cable through steel pipes/casing capping etc wall /floor /roof. This includes fixing and clipping of casing capping / Rosette boxes at the locations/sites as per the direction of the engineer in charge of the work with all necessary fitting materials and cutting of masonry wall at the entry of room, repairing of masonry wall, cement plastering at per site requirement are to be supplied by contractor.							
06	06	25.00	Numbers	1213.00	30325.00	AT Par	30325.00	
	<b>Description:-</b> Installation, testing & commissioning of 6U Network Rack.							
07	07	300.00	Numbers	804.00	241200.00	AT Par	241200.00	
	<b>Description:-</b> Installation, testing & commissioning of 8 Port POE L2 switch.							
08	08	300.00	Numbers	10812.00	3243600.00	AT Par	3243600.00	
	<b>Description:-</b> Supply & installation of 9U rack with all accessories as per specification.							
09	09	300.00	Numbers	11788.00	3536400.00	AT Par	3536400.00	
	<b>Description:-</b> Supply and installation of 16 channel NVR with 4 SATA port and minimum 4 TB supportable each SATA port as per technical specification.							
10	10	8000.00	Running Metre	1187.85	9502800.00	AT Par	9502800.00	
	<b>Description:-</b> Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 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 Mtr long. The HDD with or without HDPE pipe as per direction of Engineer In charge. Note: HDPE pipe supply is taken as separate item. This item also includes cable laying (HDD boring).							
11	11	2550.00	cum	839.00	2139450.00	AT Par	2139450.00	
	<b>Description:-</b> Excavation of cable trench as per cable route plan, 1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr wide advised by Engineer-in-charge 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 Western Railway and instructions of Railway Engineer at site. In case 1m 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 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.							
12	12	300.00	Numbers	3202.00	960600.00	AT Par	960600.00	
	<b>Description:-</b> Supply & Installation of 4G LTE modem as per specifications.							
13	13	400.00	Hour	1084.88	433952.00	AT Par	433952.00	
	<b>Description:-</b> Hiring of JCB Machine (in good working condition) for leveling and dressing ground/dismantling structures including disposal of debris through dumpers etc. with contractor's labour, JCB machine, machine operator, fuel, etc. The contractor shall arrange road permit for vehicle for all the states of operation, as per instructions of engineer in charge and vehicle shall not be more than three years old.							
14	14	1600.00	Man-Days	649.71	1039536.00	AT Par	1039536.00	
	<b>Description:-</b> As and when required by the Engineer in charge arranging /providing of labors for various safety related works such as protection of track etc. with contractor's T&P, equipment, hand signal flags, spanners, hammers, etc. as per specification special conditions and detailed scope of work as furnished in the tender and directed by the engineer incharge.							
15	15	600.00	Numbers	5999.25	3599550.00	AT Par	3599550.00	
	<b>Description:-</b> Supply and Fabrication of flange mounted hot dip galvanised octagonal poles of 5.0 mtrs. 4mm thick with all installation accessories including foundation as per technical specification.							
16	16	600.00	Numbers	3599.55	2159730.00	AT Par	2159730.00	
	<b>Description:-</b> Erection, concreting of flange mounted hot dip galvanised octagonal poles of 5 mtrs. Length made from 4mm thick MS sheet, complete with window at a suitable height (with accessories internal cable termination, loop in loop out arrangement & 5A MCB suitable for light fitting) from the base with flush cover for cable termination block etc. galvanised base plate of size 310 mm x20 mm and 2 nos. of 12 mm dia G.I. earth bolt with 2 nos. washer and nut welded at a height of pole as required, on the RCC Pedestal.							
17	17	300.00	LC Gate	3599.55	1079865.00	AT Par	1079865.00	
	<b>Description:-</b> Installation Charge (including wiring) of CCTV camera NVR, rack, UPS, and other accessories at LC gate .							
<b>S.No. Item Code Item Qty Qty Unit Unit Rate Basic Value Escl.(%) Amount Bidding Unit</b>								
<b>Schedule () B3-SUPPLY AND INSTALLATION</b>							2034767.12	
	01	8650.00	Metre	21.00	181650.00	AT Par	181650.00	

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01	<b>Description:-</b> Laying of OFC/Power cable/CAT-6/ PVC cable through HDPE pipe/casing capping/fall ceiling with laying/fixing of HDPE pipe/casing capping for interfacing various components and system integration. All materials for jointing and termination of power cable as per site requirement are to be supplied by contractor						
02	02	50.00	Lumpsum	3054.00	152700.00	AT Par	152700.00
	<b>Description:-</b> Installation of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable as per specification.						
03	03	15.00	Numbers	1456.79	21851.85	AT Par	21851.85
	<b>Description:-</b> Installation of maintenance free earth electrode for maintenance free earth spec No. RDSO/SPN/197/2008.						
04	04	5.00	Numbers	7500.00	37500.00	AT Par	37500.00
	<b>Description:-</b> Installation, wiring ,testing and commissioning of STM-4 with all accessories as per site Engineer.						
05	05	12.00	Numbers	17678.00	212136.00	AT Par	212136.00
	<b>Description:-</b> Installation, Wiring of D / I Mux with E1 interface cards connection to 48V bus bar & termination of VF/Data interface circuit to the crone MDF in already installed 42U EURO Rack as per site Engineer.						
06	06	3.00	Numbers	16322.36	48967.08	AT Par	48967.08
	<b>Description:-</b> Installation & commissioning of Multimedia Projector as per site Engineer.						
07	07	4.00	Numbers	29925.07	119700.28	AT Par	119700.28
	<b>Description:-</b> Installation, testing &commissioning of Main Array able12" Two way, Full range loudspeaker system with required all complete accessories for installation as per site Engineer.						
08	08	2.00	Numbers	10212.18	20424.36	AT Par	20424.36
	<b>Description:-</b> Installation, testing &commissioning of stage monitor power loudspeakers. with required all complete accessories for installation as per site Engineer.						
09	09	1.00	Numbers	13359.41	13359.41	AT Par	13359.41
	<b>Description:-</b> Installation, testing &commissioning of Two-in/six-outDigital sound system processor, with required all complete accessories for installation as per site Engineer.						
10	10	2.00	Numbers	5902.99	11805.98	AT Par	11805.98
	<b>Description:-</b> Installation, testing &commissioning of Front Fill, 8" Two-way Loudspeaker, with required all complete accessoriesfor installation as per site Engineer.						
11	11	3.00	Numbers	20924.56	62773.68	AT Par	62773.68
	<b>Description:-</b> Installation, testing and commissioning of Dual channel1800 W, Class-H power amplifier, for array speakers & subwoofer with required all complete accessories for installation as per site Engineer.						
12	12	1.00	Numbers	10143.82	10143.82	AT Par	10143.82
	<b>Description:-</b> Installation, testing and commissioning of dual channel 650W, class-AB power amplifier, for Front Fill speakers, with required all complete accessories for installation as per site Engineer.						
13	13	1.00	Numbers	57165.84	57165.84	AT Par	57165.84
	<b>Description:-</b> Installation, testing and commissioning of 16 channel audio mixer with digital audio mixer with digital audio interface with required all complete accessories for installation as per site Engineer.						
14	14	12.00	Numbers	10177.94	122135.28	AT Par	122135.28
	<b>Description:-</b> Supply, installation, testing and commissioning of condenser overhead & instrument microphone with required all complete accessories for installation as per technical specification.						
15	15	10.00	Numbers	32910.74	329107.40	AT Par	329107.40
	<b>Description:-</b> Supply, installation, testing &commissioning of handheld Wireless microphone system with required all complete accessories for installation as per technical specification.						
16	16	10.00	Numbers	297.88	2978.80	AT Par	2978.80
	<b>Description:-</b> Supply, installation &commissioning of HDMI Cable with connectors for Connectivity between Audio visual system as per technical specification.						
17	17	4.00	Numbers	3723.40	14893.60	AT Par	14893.60
	<b>Description:-</b> Supply, installation &commissioning of 8 port HDMI splitter as per technical specification.						
18	18	2.00	Numbers	9196.87	18393.74	AT Par	18393.74
	<b>Description:-</b> Supply & Installation of Professional19" Equipment Racks 12U for housing of network equipment as per technical specification.						
	19	1.00	Lot	597080.00	597080.00	AT Par	597080.00

**AHMEDABAD DIVISION-S AND T/WESTERN RLY  
TENDER DOCUMENT**

**Tender No:** DRM-SnT-ADI-Tele01of25-26

**Closing Date/Time:** 22/05/2025 15:00

19	<b>Description:-</b> Interior work for new NOCC building including work station, L-Type furnished table including furnishing, plastering, Glass work, Wooden Modular Design (which includes 1 Supply of High Back Revolving Chair 4 Nos 2 Supply of Revolving Chair 10Nos 3 Supply of Office Computer Table (5 X 4Feet) 2Nos 4Supply of Computer Table 4 Nos 5 Supply of Steel table (3X5-112 Feet) 3 Nos 6 Supply of Steel Amirah with partition 1 for equipment storage 2 Nos 7 Supply of Steel Amirah with partition for Documents 2 Nos 1 Supply of Locker for Almirah Type (8 Box) 2 Nos 9 Supply of Steel Stool 10 Nos 10 Supply of Table glass for item no.-3,4&5 7 Nos 11 Supply of Workstation table 8 Seats 12 Aluminum Ladder (12 Feet) 2 Nos 13 Aluminum Ladder (6 Feet) 2 Nos).
----	--

**3. ITEM BREAKUP**

No item break up added
------------------------

**4. ELIGIBILITY CONDITIONS**

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V = Advertised value of the tender in crores of Rupees N = Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/audited, the audited balance sheet of the fourth previous years shall be considered for calculating average annual contractual turnover. The tenders shall submit requisite information as per Format - 10(Ch-5 Format & Annexure), along with copies of Audited Balance Sheets duly certified by the chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work each costing not less than the amount equal to 60% of advertised value of the tender.	No	No	Allowed (Mandatory)
1.1	Similar work means "Any work of IP based CCTV with networking. "	No	No	Allowed (Mandatory)

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

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.

**AHMEDABAD DIVISION-S AND T/WESTERN RLY  
TENDER DOCUMENT**

**Tender No:** DRM-SnT-ADI-Tele01of25-26

**Closing Date/Time:** 22/05/2025 15:00

8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

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

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

## 5. COMPLIANCE

### Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per "CHECK LIST" document attached.	No	No	Not Allowed

### Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Following documents duly filled & signed to be uploaded.	No	No	Allowed (Mandatory)
1.1	"Tender Form" As per 'TENDER FORM' (document attached).	No	No	Allowed (Mandatory)
1.2	Deviation Statement:- The tender shall submit a statement indicating any deviations against any clause of this tender including all the technical specification concerned to this work, duly signed and stamped on each page. If there are no deviation whatsoever, a Nil deviation statement should be submitted. (As per "DEVIATION STATEMENT" document attached.)	No	No	Allowed (Mandatory)
1.3	List of works completed: list of works completed in the last seven financial years giving description of work, organization for whom executed, approximate value of contract at the time of award, date of award and date of schedule completion of work. Date of actual start, actual completion and final value of contract should also be given.(As per "LIST OF WORKS COMPLETE" document attached).	No	No	Allowed (Mandatory)
1.4	List of works on hand:- List of works on hand indicating description of work, contract value, and approximate value of balance, work yet to be done and date of award (As per "LIST OF WORKS IN HAND" document attached).	No	No	Allowed (Mandatory)
1.5	Details of payment through NEFT/RTGS. (As per "BANKDETAILS" document attached).	No	No	Allowed (Mandatory)
1.6	List of Personnel, organization:- List of Personnel ,organization /technical staff available on hand and proposed to be engaged for the subject work, with their designation and experience.	No	No	Allowed (Mandatory)
1.7	Document for technical skill:- Documentary evidence necessary to establish that they possess the requisite skill, technical expertise, technical and skilled manpower and necessary equipment's to execute complete work covered in the schedule with stipulated specification/details.	No	No	Allowed (Mandatory)

**AHMEDABAD DIVISION-S AND T/WESTERN RLY  
TENDER DOCUMENT**

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**Closing Date/Time:** 22/05/2025 15:00

1.8	Special instruction regarding payment of Bid Security: Excerpt of GCC April -2022 read as (i)Any firm recognized by Department of Industrial Policy andPromotion (DIPP) as 'Startups' shall be exempted from payment of BidSecurity. (ii)Labour Cooperative Societies shall deposit only 50% of above BidSecurity. (Refer para 4.24 of Chapter 4 of Tender document) for clarificationsee GCC April-2022	No	No	Allowed (Mandatory)
2	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

**General Instructions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per "GENERAL INSTRUCTIONS" document attached.	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per 'SPECIAL CONDITIONS' document attached.	No	No	Not Allowed

**Technical-Compliances**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per 'TECHNICAL SPECIFICATIONS' document attached.	No	No	Allowed (Mandatory)

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I have gone through the particulars, condition, instructions and all are understood and accepted by me or us.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	Annexuretele01of25-2624april.pdf	Annexure
2	Tenderdoc01of25-26.pdf	Tender document Amendment1

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

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

**Signed By:** ASTIK TRIPATHI

**Designation :** DSTE/ADI

भारत सरकार  
GOVERNMENT OF INDIA



निविदा दस्तावेज़  
TENDER DOCUMENT

(Open E-Tender)

निविदा सं.: डी.आर.एम-एस.एन.टी-ए.डी.आई-टेली01 ऑफ 2025-26  
TENDER No.: DRM-SnT-ADI-Tele01 of 2025-26

कार्य का नाम:- (1) सिग्नल वर्कशॉप साबरमती में सीसीटीवी और बायोमेट्रिक उपलब्ध कराना, (2) एलसी गेटों पर सीसीटीवी का प्रावधान (3) नए एनओसीसी भवन के लिए दूरसंचार सुविधाओं का प्रावधान

Name of Work:- (1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building .

SINGLE PACKET SYSTEM TENDER (E-TENDERING)

E-Tender Document Cost: Nil

कार्य की अनुमानित लागत } 74712807.17/-  
Approximate Cost of Work

(For details please refer to web site- “www.ireps.gov.in”)  
(अधिक जानकारी हेतु देखें: “www.ireps.gov.in”)

Tenderer's Signature  
Date

DRM S&T ADI

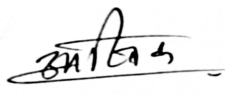
For & on behalf of the President of India



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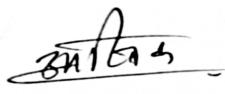
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Tenderer's Signature  
Date

  
DRM S&T ADI  
For & on behalf of the President of India

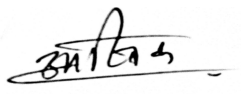
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Tenderer's Signature  
Date

  
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For & on behalf of the President of India

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Tenderer's Signature  
Date

  
 DRM S&T ADI  
 For & on behalf of the President of India

**WESTERN RAILWAY****“E-Tender Notice”****Tender No. DRM-SnT-ADI-Tele01 of 2025-26**

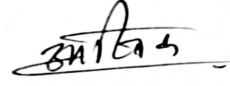
Sr. Divisional Signal & Telecommunication Engineer (Co) Ahmedabad Division Western Railway, acting for and on behalf of the President of India invites E-Tender for the following work:

Name of work	<b>(1) Providing CCTV &amp; Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building.</b>
Bidding/Tender Type & System	Works Normal Open E-Tender, Single packet system. (IREPS Portal)
Tender Advertised Value	Rs. 74712807.17/- (Seven Crore Forty-Seven Lakh Twelve Thousand Eight Hundred Seven and seventeen paise only)
Bid Security/Earnest Money	Rs. 523600.00/- (Five lakh twenty-Three thousand Six hundred only)
Cost of Tender Document	NIL
Pre- Bid Conference	NA
Bid start date	15 days before closing date
Time & Date of Closing of Bid	15.00 Hrs. on 22/05/2025
Time & Date of Opening of Bid	After 15.30 Hrs. on 22/05/2025
Time & Date of Opening of Commercial Bid	NA
Validity of Offer	60 days from tender opening.
Completion period	18 Months
JV Allowed	Not allowed
Tendering section Office Incharge & Place of Opening of Bid	Sr. Divisional Signal & Telecommunication Engineer (Co) Ahmedabad, DRM office Ahmedabad, Gujarat.
The tender can be viewed online at E-Tender Portal <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> and the offer must be submitted on the same E-Tender Portal.	

**1.General Information/Instruction of Tender**

- a) Tender Document is available on [www.ireps.gov.in](http://www.ireps.gov.in) at designated place.
  - b) The Bid Security shall be deposited either in cash through e payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. Bank Guarantee bond to be submitted as per Annexure –VIA of Part I of GCC (Appendix 1, annexure M). The original Bank Guarantee should be delivered in person to the official floating this tender before closing date for submission of bids (i.e. excluding the last date of submission of bids). Tenderers are advised to keep a watch on any corrigendum to the documents being released by the tender inviting office to ensure that they use the latest document for their offers.
  - c) It is the responsibility of the Tenderer to check any correction or any modifications published subsequently in the web site and to take into account while submitting their tender.
  - d) If the Tenderer / Contractor makes any change / addition / deletion and the same is detected at any stage even after the award of the tender, full Bid Security will be forfeited and the contract will be terminated at his / their risk and cost. The tenderer is also liable to be banned from doing business with railways and / or prosecuted.
  - e) Tenderer(s) to please note that after opening of tender, any document/credential pertaining to technical & financial eligibility, constitution of firm etc. shall neither be asked nor be entertained/considered under any circumstances and no claim or representation whatsoever from the tenderer in this regard shall be entertained. Scanned copy of the documents, uploaded by the tenderer shall be clear & readable.  
However, Railway reserves the right to seek any clarification on the documents/credentials already submitted by the tenderer along with the offer. **E-Tender under Single Packet System** are invited from reliable, bonafide & experienced agencies with required experience as per prequalification criteria stipulated in Tender Document for the above work.
2. The **TENDER DOCUMENT** forming the complete Tender (which is deemed to be part of the contract) consist of the following

Tenderer's Signature  
Date

  
 DRM S&T ADI  
 For & on behalf of the President of India

**2.1 Technical Document:**

The Technical Bid comprises of the following -

## Section I:-

- Chapter I: Tender form
- Chapter II: Instructions to Tenderers
- Chapter III: Special conditions of Contract
- Chapter IV: GCC April 2022 with correction slip.

Section II: - Appendix, Annexure, Attachments

Section IV: - Technical Specifications for the schedule of the Tender

1. Indian Railways Standard General Conditions of Contract 2022, hereinafter called General Conditions of Contract, and Indian Railway Code for the Engineering Department with up to-date corrections (not enclosed herewith). Relevant instructions to tenderer & general  
However, conditions/provisions in the Tender Form and Special Conditions of Tender & Contract and Technical Specifications will override any overlapping or conflicting conditions / provisions given in these documents.

It is presumed that Bidder has acknowledged the knowledge of GCC of Railways.

2. Indian Railway Signalling / Telecommunication Manual with latest corrections (not enclosed herewith).
3. All general and detailed drawings pertaining to this work which will be issued by the Sr. Divisional Signal & Telecommunication Engineer (Co) Ahmedabad Division Western Railway, or his representative from time to time with all changes and modifications.
4. **Order of Precedence of Documents:** In a contract agreement, in case of any difference, contradiction, discrepancy, with regard to conditions of tender/contract, specifications, drawings, Bill(s) of Quantities etc., forming part of the tender/contract, the following shall be the order of precedence:
  - i. Letter of Award/Acceptance (LOA)
  - ii. Bill (s) of Quantities /Schedule of Rates
  - iii. Special Conditions of Contract
  - iv. Technical Specifications as given in tender documents
  - v. Drawings
  - vi. Indian Railways Standard General Conditions of Contract updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
  - vii. IR Specifications/RDSO specifications/Guidelines updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
  - viii. Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.

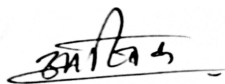
Note: The standard documents which are not enclosed herewith can be seen in the office of Sr. Divisional Signal & Telecommunication Engineer (Co), Ahmedabad Div, Western Railway, on any working day during office hours.

**5. Contents of the Technical Bid to be submitted by Tenderer should include the following-**

(Pl. refer tender documents for details required in each Performa/Annexures etc. to be submitted along with the offer. Documents may be submitted carefully as eligibility will be decided generally based on documents submitted along with offer)

- i) Mandatory Information Fields required in IREPS Portal to be filled correctly.
- ii) Covering Letter if any.
- iii) Summary details of Technical Bid duly filled by Bidder in attached Format. (Appendix 1, Annexure A)
- iv) Tender Form as per (Appendix 1, Annexure B)
- v) Details of Technical Eligibility Fulfillment: List of 1 or 2 or 3 works which are similar in nature & of value mentioned in tender conditions. This shall be supported by credential/work completion certificate in respect of works fulfilling technical eligibility criteria issued by user/Employer.
- vi) Details of FINANCIAL CREDENTIAL in the form of
  - a. Average Annual contractual payment received/contractual turnover issued by CA. Duly supported by Audited Balance Sheets.

Tenderer's Signature  
Date

  
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- b.Audited Balance Sheets duly certified by the Chartered Accountant for required period (past 3 financial years).
- vii)Details of Bid capacity Eligibility Criteria **:(for tender value more than 20 crore)**
  - a.CA certificate & Calculations of Bid capacity as per given formula.
  - b.Detailed Break up of financial turnover (Value A) duly supported by List of works showing contractual payment received in past 3 financial years duly certified by CA.
  - c.Details of Balance liabilities of contractual works (Value of B) duly supported by List of all ongoing works duly certified by CA.
- viii) Details of make of specific Equipment & MOU/Authorization from OEMs/Indian Representatives with relevant details like country of origin(to check land sharing country details), Local content related documents, past experience of OEMs/Equipment, etc. if asked in the tender. Power of Attorney duly supported by Board resolution/partnership deeds as the case may be.
- ix) Copy of MOA & Article of Association (AOA)/partnership deed/JV agreement based on type of Bidder as mentioned in tender document.
- x) Other documents as mentioned in tender documents/check list attached with tender documents including deviation certificates, MOU with OEMs (if applicable), make of specific equipment offered (Switches, IP MPLS equipment, etc.)
- xi) Certificate of Local content duly certified by CA. (Appendix 1, Annexure K)
- xii)Declaration of site acquaintance. (Appendix 1, Annexure J)
  - a.List of Plant & Machineries.
  - b.List of Technical Manpower.(Appendix 2, Annexure 3)
  - c.List of Works In Hand (if not submitted with Bid capacity)
- xiii)Other optional documents: (to be submitted after issue of LOA):
  - a.Planning Of Execution, Proposed Scheme and Program of Work To Complete It Within The Stipulated Completion Period.

## 2.2.FINANCIAL BID:

The financial bid documents comprise the following: -

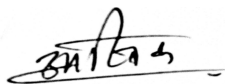
### SECTION III:-SCHEDULE OF WORKS

Different schedules (with details of items) as listed in IREPS portal.

## Contents of the Offer Document:

- A.Offer Document should be complete with rates quoted by the tenderer for Supply, Works and execution in prescribed Performa at designated place on [www.ireps.gov.in](http://www.ireps.gov.in) website. An incomplete offer will be summarily rejected.
- B.The tenderer(s) shall quote a single percentage against **all items in each schedule of the tender both, in 'figures' and words'**, in the designated space provided. If there be any variance in percentage quoted by the tenderer in 'words' and 'figures', that quoted in 'words' will be treated as final.

Tenderer's Signature  
Date

  
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**SECTION-I**

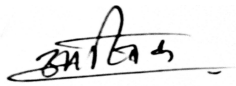
**CHAPTER-I** : Tender Form

**CHAPTER-II** : Instructions to Tenderers

**CHAPTER-III** : Special Conditions of Contract

**CHAPTER-IV** : General Conditions of Contract April 2022 with correction slip

Tenderer's Signature  
Date

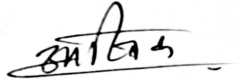
  
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For & on behalf of the President of India

**SECTION-I**

**CHAPTER-I: Tender Form**

**{TENDER FORM}**

Tenderer's Signature  
Date

  
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**Appendix 1, Annexure – B**  
**(Ref: Annexure -I of Part I of GCC)**  
**WESTERN RAILWAY**  
**TENDER FORM (First Sheet)**

**Tender No: -- DRM-SnT-ADI-Tele01 of 2025-26.**

**Name of Work: --(1) Providing CCTV & Biometric at signal workshop Sabarmati, (2) Provision of CCTV at LC gates (3) provision of telecom facilities for New NOCC building.**

To  
**The President of India,**  
 Acting through the Sr. Divisional Signal & Telecommunication Engineer,  
 Ahmedabad Division,  
 Western Railway.

1. I/We \_\_\_\_\_ have read the various conditions to tender attached hereto and agree to abide by the said conditions. I/We also agree to keep this offer open for acceptance for a period of **as specified in NIT** days from the date fixed for closing of the tender and in default thereof, I/We will be liable for forfeiture of my/our "Bid Security". I/We offer to do the work for Western Railway, at the rates quoted in the attached bill(s) of quantities and hereby bind myself/ourselves to complete the work in all respects within **a period as specified in NIT** from the date of issue of letter of acceptance of the tender.
2. I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract, with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/Specifications, Standard Schedule of Rates (SSOR) with all correction slips up-to-date for the present contract.
3. A Bid Security of ₹\_\_\_\_\_ (**as specified in NIT**) has already been deposited online/ submitted as Bank Guarantee bond. Full value of the Bid Security shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if:
  - (a) I/We do not submit the Performance Guarantee within the time specified in the Tender document;
  - (b) I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and
  - (c) I/We do not commence the work within fifteen days after receipt of orders to that effect.
4. (a) I/We am/are a Startup firm registered by ..... Department of Industrial Policy and Promotion (DIPP) and my registration number is ..... valid upto ..... (Copy enclosed) and hence exempted from submission of Bid Security.
5. We are a Labour Cooperative Society and our Registration No. is .....with .....and hence required to deposit only 50% of Bid Security.
6. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.

Signature of Witnesses:

Signature of Tenderer(s):

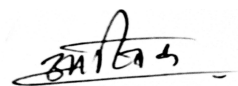
(1) \_\_\_\_\_

(2) \_\_\_\_\_

Date \_\_\_\_\_

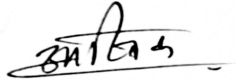
Address of the Tenderer(s) \_\_\_\_\_

Tenderer's Signature  
 Date

  
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**CHAPTER-II**  
**{INSTRUCTIONS TO TENDERERS}**

Tenderer's Signature  
Date

  
DRM S&T ADI  
For & on behalf of the President of India

**1.0 GENERAL INSTRUCTIONS:**

- i) On behalf of the President of India Sr. Divisional Signal & Telecommunication Engineer (Co) Ahmedabad Division Western Railway, invites tenders from established firms and reliable manufacturers or their authorized agents for the supply and execution.
- ii) All offers in the prescribed form should be submitted before the time and date fixed for the receipt of offer or offers as set forth in the tender papers. Offers received after the stipulated time and date, are liable to be rejected.
- iii) All information in the offer should be in English. Information in any language must be accompanied by its authenticated translation in English. In the event of any discrepancy between an offer in a language other than English and its English translation, the English translation will prevail.
- iv) The offer shall be as per:
  - a. Instructions to Tenderers,
  - b. General Condition of Contract,
  - c. Special Conditions of Contract,
  - d. Technical Specifications,
  - e. Schedules,
  - f. Annexure.
- v) However, the tenderer shall indicate their compliance or otherwise against each clause and sub-clause of these conditions. The tenderer shall for this purpose enclose a separate statement indicating compliance or otherwise of each clause and sub-clause. Whenever, a tenderer deviates from such provision of a clause/sub-clause, he shall furnish his detailed justification for the same. However, acceptance of any such condition/deviation is not bound on the railway while accepting the offer.

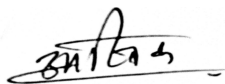
**2.0 SIGNING OF TENDER:**

- i) The Tenderer must submit his offer on **www.ireps.gov.in**. This is to be submitted using the Registration process with Class III Digital Signature Certificate and Digital Encryption Certificate. Any document submitted through the above Digital Signature will be deemed to have been signed. However, all Annexures are to be properly filled up, signed & stamped wherever required and to be uploaded at designated place for the completion of offer.

**3.0 SUBMISSION OF TENDER:**

- i) Tender shall be submitted in Single part with compliance of Technical requirement and Financial Offer as instructed in Tender Document and IREPS guidelines.
- ii) Tenders must be submitted in the designated place on **www.ireps.gov.in** using the Class III Digital Signature Certificate and Digital Encryption Certificate.
- iii) The online offer will be accepted till Date and time as specified in above NIT Header.
- iv) **The Bid Security shall be deposited either in cash through e payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents.**
- v) **All rates must be submitted only under Specified Space only on IREPS portal.**
- vi) Any individual(s) signing the tender or other documents connected therewith should specify whether he is signing:
  - a. as sole proprietor of the concern or are attorney of the sole proprietor;
  - b. as a partner or partners of the firms;
  - c. as a director, Manager or Secretary in the case of a Limited company duly authorized by resolution passed by the board of directors or in pursuance of the Authority conferred by Memorandum of Association.
- vii) In the case of a firm not registered under the Indian partnership Act, all the partners or the attorney duly authorized by all of them should sign the tender and all other connected documents. The original power of attorney should be submitted to the W. Railway for verification, if required.
- viii) All prices and other information like documents etc. having a bearing on the price shall be written both in figures and in words in the prescribed offer form. In case of difference in word and figure the amount written in words will be taken into consideration. In the event of any discrepancy between unit rate and total cost (Unit rate X quantity), the value shown in unit rate will be taken for evaluation purposes.
- ix) Offer shall be as per the General and Special Conditions of Contract given in the Bid Documents. However, the tenderer shall indicate his acceptance or otherwise against each clause and sub-clause of the General and Special Conditions of Contract. For this purpose, the tenderer shall enclose a separate statement (Appendix 1, Annexure I) indicating only the deviations from any clause or sub-clause of the General and Special Conditions of Contract, which he proposes with full Justification for such deviations. Railway,

Tenderer's Signature  
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- however, reserves the right to accept or reject these deviations and Railway's decision thereon shall be final.
- x) The tenderer should avoid ambiguity in his offer e.g. if his offer is to his standard sizes/length/dimensions, he should specially state them in detail without any ambiguity. Brief descriptions such as "standard length" etc. should be avoided in the offer.
  - xi) Tender documents in which tenders are submitted by the tenderer(s) shall become the property of Railway and the Railway shall have no obligation to return the same to the tenderer(s).
  - xii) This tender document (in full) downloaded along with the various documents required to be uploaded at [www.ireps.gov.in](http://www.ireps.gov.in) before the date and time stipulated in the tender document.
  - xiii) The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents.
  - xiv) Tenderers intending to participate in the e-Tender must make payment of Bid Security either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents.
  - xv) Tenders other than in the form of e-Tendering shall not be accepted against this tender. For this purpose, tenderers are required to register themselves with IREPS. Registration requires procurement of Class III Digital Signature Certificate and Digital Encryption Certificate.
  - xvi) Bidding unit to be entered as per ireps website requirement.
  - xvii) In case of any difficulty faced by the tenderer while submitting their bid in the IREPS website assistance from a help desk available with the website may be sought.
  - xviii) Railway Administration will not be responsible for any delay/difficulties /inaccessibility of the downloading facility for any reason whatsoever. In case of any discrepancy between the tender documents downloaded from the internet and the master copy available in the offices, the latter shall prevail and will be binding on the tenderer(s). No claim on this account will be entertained.
  - xix) The tender document is available after having deposited the requisite cost of the tender document (if any) as per NIT on IREPS website. It is understood that you agree to abide by the conditions laid down in the tender document when you submit the tender.

#### 4.0 OPENING OF THE BIDS:

##### a) For Single Packet System.

- i) Technical Bid & Financial Bid will be opened on date and time as specified in NIT Header. Opening will be done as per IREPS Portal norms.
- ii) Price Bids will be opened on the IREPS Website.
- iii) In the event of the specified date of Bid Opening happens to be holiday/bandh, the Bids will be opened at the appointed time and location on the next working day.

##### b) Two packet System.

- i) The E-Tender PACKET-I (Technical Bid) will be opened on date and time as specified in NIT Header. Opening will be done as per IREPS Portal norms.
- ii) The opening of PACKET-II (Price Bid) of the qualified bidders will be intimated later on. Note: -The successful tenderer who will be considered technically acceptable and eligible will be informed and the Financial Bids (PACKET-II) of these tenderers will be opened subsequently on the date time notified to the tenderer/s. The financial bids of unsuccessful tenderer/s will not be opened.
- iii) Price Bids will be opened on the IREPS Website.
- iv) In the event of the specified date of Bid Opening happens to be holiday/bandh, the Bids will be opened at the appointed time and location on the next working day.

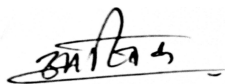
#### 5.0 EVALUATION OF THE TENDER:

- i) The tender will be evaluated on aggregated cost of work comprising all Schedules.

#### 6.0 COMPLIANCE TO TENDER CONDITIONS, SPECIFICATION & DRAWINGS:

- i) The equipment offered shall be in accordance with the drawings and specifications. Details of variation from the drawings and specifications, if any, should be clearly indicated and in such an event, a certificate from the users must be furnished to the effect that the product offered performs the requisite functions satisfactorily, & is an alternative acceptable in one or more other countries. The name of users in those foreign countries should also be indicated.
- ii) Firms who have not carried out the works and supplied the items tendered for in this case for the Indian Railways in the past should give details of supplies and works carried out and the customers along with their performance certificates.

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- iii) The tenderer(s) shall indicate Paragraph by Paragraph for each section of the tender document that either his tender complies in every respect with the requirements of each clause and sub-clause or if not, precisely how they differ from the requirements of the tenderer(s). In later case, "the tenderers) shall enclose a separate statement as per Performa given, indicating only the deviations for any clause or sub-clause of General Conditions of Contract, Special conditions of Contract, Instructions to tenderer(s) and conditions of tendering, Technical specification, etc. which he proposes with" details justifications for deviations proposed. The purchasers, reserves the right to accept or reject these deviations and his decision thereon shall be final.
- iv) In case the tenderer(s) is not able to comply with the provisions of any condition(s) and/or technical specification of this tender, he shall submit clause-wise non-compliance report giving reasons, and to submit in writing " I/We hereby confirm that I/We agree to comply all the conditions of the complete Tender this effect, he shall mentioned in different Para of this tender document except those mentioned in my/our non-compliance statement enclosed," along with his offer, without which his/their offer is liable to be rejected.

### 7.0 BID SECURITY:

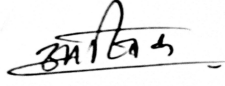
- 1(a) The tenderer shall be required to submit the Bid Security with the tender for the due performance with the stipulation to keep the offer open till such date as specified in the tender, under the conditions of tender. The Bid Security shall be as under:

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

Note:

- i) The Bid Security shall be rounded off to the nearest 100. This Bid Security shall be applicable for all modes of tendering.
  - ii) Any firm recognized by the Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above.
  - iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.
- (b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway.
- (c) If his tender is accepted, this Bid Security mentioned in sub Para (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.
- (2) The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-VIA of Part I of GCC and shall be valid for a period of 90 days beyond the bid validity period.
- (3) In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:
- (i) A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.
  - (ii) The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document before the closing date for submission of bids (i.e. excluding the last date of submission of bids). (Appendix 2, Annexure M).
  - (iii) Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non-submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid.
  - (iv) The Bid Security shall remain valid for a period of 90 days beyond the validity period for the Tender.

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- (v) The details of the BG, physically submitted, should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected.
- (vi) The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification “**Bid Security for the Tender No.** \_\_\_\_\_” and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right-hand top corner of the envelope.
- (vii) The envelope shall be addressed to the officer and address as mentioned in the tender document.
- (viii) If the envelope is not sealed and marked as instructed above, the Authority assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

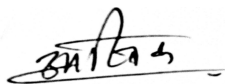
## 8.0 SECURITY DEPOSIT:

- i) The Security Deposit shall be **5%** of the contract value. The Bid Security submitted by the Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfillment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Deposit, the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, to the Contractor.
- ii) Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, or may be recovered at the rate of **6%** of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the Railway may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract.
- iii) The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract.

**Note:** Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by her/him/them, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund /return of the already available Security Deposit is permitted up to three times.

- i) **Refund of Security Deposit:** Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after, the following:
  - a. Final Payment of the Contract as per clause 51.(1) and
  - b. Execution of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and
  - c. Maintenance Certificate issued, on expiry of the maintenance/Warranty period as per clause 50.(1) of GCC , in case applicable.
- ii) **Forfeiture of Security Deposit:** Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions, the Security Deposit already with railways under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of these conditions, the Security Deposit shall not be forfeited.
- iii) No interest shall be payable upon the Bid Security and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub-Clause 16.(4)(b) of this clause will be payable with interest accrued thereon.

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Date

  
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**9.0 BRIEF DESCRIPTION OF THE WORK:**

Please refer to Appendix 2, Annexure 1.

For exact item wise details, schedule of work & its corresponding technical specification may be referred. However, any further clarifications thereof can be obtained from the office of Sr. Divisional Signal & Telecommunication Engineer (Co) Ahmedabad Division Western Railway well in advance.

**10.0 QUALIFYING / ELIGIBILITY CRITERIA (Applicable if tender costing is more than 50 lakh.)**

Tender eligibility criteria defined in Para 10.1 to 10.5 must be fulfilled or else Bid may be rejected summarily. All Tenderer(s) irrespective of their being known to this organization or not, must submit related supporting documents in respect of the following:

**10.1 TECHNICAL ELIGIBILITY CRITERIA:**

- a) The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:

**Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or**

**Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or**

**One similar work costing not less than the amount equal to 60% of advertised value of the tender.**

- b)(1) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:

**Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or**

**Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or**

**One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender.**

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

- (b) (2)** In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity.

- (b) (3)** To evaluate the technical eligibility of a tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of Contractor through subcontractor fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract or jointly i.e., partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing.

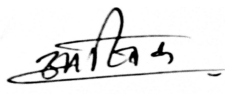
However, if required in tender documents by way of Special Conditions, a formal agreement duly notarised, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be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

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

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

In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as

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per clause 7 of the Standard General Conditions of Contract, with prior approval of Chief Engineer in writing.

**Note for Item 10.1:**

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

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

**Similar Nature of Work means:**

Please refer to Appendix 2, Annexure 1.

For Joint Venture Firm please refer Clause 17 of GCC 2022. (Along with all correction slips)

**10.2 Financial Eligibility Criteria: (Ref: Para 10.2 of GCC (along with all correction slips))**

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

V= Advertised value of the tender in crores of Rupees

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

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

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

For Joint Venture Firm please refer Clause 17 of GCC 2022.

**10.3 Bid Capacity :( Not applicable for this tender )**

Applicable as per Para 10.3 of GCC 2022.(along with all correction slips)

The tender/technical bid will be evaluated based on the bid capacity formula detailed as Annexure- VI of GCC.

For tenders having advertised value more than Rs 20 crore wherein eligibility criteria includes bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under:

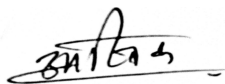
$$\text{Available Bid Capacity} = [A \times N \times 2] - 0.33 \times N \times B$$

Where,

A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress.

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

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B = Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender.

Note:

- (a) The Tenderer(s) shall furnish the details of -
  - (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, as per proforma at Appendix 1, Annexure F1 and
  - (ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed Performa (Appendix 1, Annexure F2) of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.
- (b) In case if a bidder is JV, the tenderer(s) must furnish the details of
  - (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A in prescribed Performa at Appendix 1, Annexure F1 and
  - (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed Performa of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished.  
The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.
- (c) Value of a completed work/work in progress/work awarded but yet not started for a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above-mentioned bid capacity in the tender under consideration.
- (d) The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity".
- (e) In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected summarily.
- (f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available bid capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirements.

#### 10.4 Site Acquaintance verification criteria: (appendix 1, Annexure J)

Safety of material and staff will be the responsibility of the contractor. It is required that firms should compulsorily visit the site condition before filling the tender. The certificate to this effect may be submitted. Railway may like to have proof of visit of site to adjudged seriousness & sincerity of bidder while quoting rates.

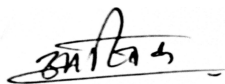
#### 10.5. Joint Venture:( Not applicable for this tender)

**10.6 Partnership Firm:** The tenderer shall submit documents as mentioned in Clause 18 of the Tender Form (Second Sheet) of GCC 2022. (along with all correction slips)

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

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

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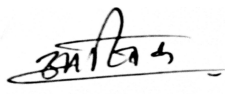
  
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converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.

[Explanation for Para 10.1 to 10.5 - Eligibility Criteria:]

1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender.
2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials.
4. In case of completed work, the value of the final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case the final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work.
5. If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet), the same shall be considered for the purpose of fulfillment of credentials.
6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
7. In case of newly formed partnership firm, the credentials of individual partners from previous proprietary firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in the previous entity and his share in the present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of  $0.3 \times 0.2$  \* value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include a copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include a copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
9. In case of an existing partnership firm if any new partner(s) joins the firm without in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include a copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or proprietary firm without leaving the partnership firm of A&B partners.
11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of a partnership firm retires without

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taking away any credentials from the firm, the credentials of the partnership firm shall remain the same as it is without any change in their value.

13. In a partnership firm "AB" of A&B partners, in case A also works as proprietary firm "P" or partner in some other partnership firm "AX", credentials of A in proprietary firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.
15. In case company A is merged with company B, then company B would get the credentials of company A also.]

**10.8 Tenderer Credentials:** Documents testifying tenderer previous experience and financial status should be produced along with the tender.

Tenderer(s) who is / are not borne on the approved list of the Contractors of W. Railway shall submit along with his / their tender:

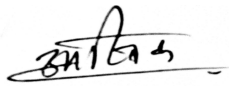
- i) Certificates and testimonials regarding contracting experience for the type of job for which tender is invited with a list of works carried out in the past.
- ii) Audited Balance Sheet duly certified by the Chartered Accountant regarding contractual payments received in the past.
- iii) **CA certified local content certificates for complete tender value need to be submitted.**
  - a. **Note: minimum value shall be filled in IREPS Portal (Mandatory Field), However certificate may specify either minimum value or range of values as the case may be. (Details may be submitted as attached Format Appendix 1, Annexure K).**
- iv) The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.
- v) A copy of certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with the bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-V. Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested / digitally signed by which she/he/they is/are qualifying the Qualifying Criteria mentioned in the Tender Document.
- vi) The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway there under.
- vii) (a) In case any information submitted by a tenderer is found to be false, forged or incorrect at any time during the process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for a period of two years.  
(b) In case any information submitted by the tenderer is found to be false, forged or incorrect after the award of contract, the contract shall be terminated. Bid Security, Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and the agency shall be banned from doing business for a period of two years.

Non-compliance with any of the conditions set forth herein above is liable to result in the tender being rejected.

**10.9 The tenderer(s) must submit copies of certificates and testimonials with regards to:**

- i. Summary details of Technical Bid duly filled by Bidder in attached Format. (Appendix 1, Annexure A)
- ii) Tender Form as per (Appendix 1, Annexure B)
- iii) Affidavit/Certificate as per Annexure-V or (V and VA both) of GCC/Appendix 1, Annexure C or H of tender Doc.
- iv) Details of Technical Eligibility Fulfilment: List of 1 or 2 or 3 works which are similar in nature & of value mentioned in tender conditions. This shall be supported by credential/work completion certificate in respect of works fulfilling technical eligibility criteria issued by user/Employer.
- v) Details of FINANCIAL CREDENTIAL in the form of

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- a. Average Annual contractual payment received/contractual turnover issued by CA. duly supported by Audited Balance Sheets.
- b. Audited Balance Sheets duly certified by the Chartered Accountant for required period (past 3 financial years).
- v) Details of Bid capacity Eligibility Criteria:
  - a. CA certificate & Calculations of Bid capacity as per formula
  - b. Details of Break up of Financial turnover (Value A) duly supported by List of works showing contractual payment received in past 3 financial years duly certified by CA.
  - c. Details of Balance liabilities of contractual works (Value of B) duly supported by List of all ongoing works duly certified by CA.
- vi) Power Of Attorney duly supported by Board resolution/partnership deeds along with vetting details as the case may be.
- vii) Copy of MOA & Article of Association (AOA)/partnership deed/JV agreement based on type of Bidder as mentioned in tender document.
- viii) Other documents as mentioned in tender documents/check list attached with tender documents including deviation certificates, MOU with OEMs (if applicable), make of specific equipments offered ( EI, IPS, MSDAC, switches, IPMPS equipments, etc.)
- ix) Certificate of Local content duly certified by CA. (Appendix 1, Annexure K)
- x) Declaration of site acquaintance. (Appendix 1, Annexure J)
  - List of Plant & Machineries.
  - List of Technical Manpower. (Appendix 2, Annexure 3)
  - List of Works In Hand (if not submitted with Bid capacity)

Other optional documents: (to be submitted after issue of LOA):

- Planning Of Execution, Proposed Scheme and Program of Work to Complete It within the Stipulated Completion Period.

#### 10.10 Engineering Organization:

- i) The Contractor shall also employ at least one Project Manager and 01 Site Engineer for this Work as per Railway Board Letter no. IR NO. 2012/CE-I/CT/O/20 dtd 12/07/2013, details of which are to be given in (Appendix 2, Annexure 3).
- ii) The above deployed persons must be trained in railway telecommunication system and safety in General. In case the person is not found trained, He will be sent to SBI/STTC for training immediately at the cost of the contractor.

#### 10.11 Construction Machinery

The firm should have minimum construction machinery, Tools and plants, vehicles etc. Details of which will be furnished by them along with the tender.

#### 10.12 Test and measuring instruments, special tools and installation material

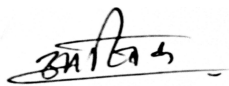
Special tools required for installation and maintenance of all the equipment shall be arranged by the tenderer(s) in adequate quantities. All installation materials for complete commissioning of the system shall be provided by the tenderer(s).

All tests and measuring instruments and other arrangements required for all the acceptance tests shall be provided by the tenderer(s) free of cost.

#### 11.0 Documents to be submitted by different type of tenderer

- A. The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.

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i. Following documents shall be submitted by the tenderer:

**a. Sole Proprietorship Firm:**

All document in terms of Para 10 of the Tender Form (Second Sheet) above.

**b. HUF:**

i. A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.

ii. All other documents in terms of Para 10 of the Tender Form (Second Sheet) above.

**c. Partnership Firm:**

All documents as mentioned in Para 18 of the Tender Form (Second Sheet).

**d. Joint Venture (JV):** All documents as mentioned in Para 17 of the Tender Form (Second Sheet).

**e. Company registered under Companies Act 2013:**

i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company

ii) A copy of Certificate of Incorporation

iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company.

iv) All other documents in terms Para 10 of the Tender Form (Second Sheet) above.

**f. LLP (Limited Liability Partnership):**

i) A copy of LLP Agreement

ii) A copy of Certificate of Incorporation

iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP.

iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.

v) All other documents in terms of Para 10 of the Tender Form (Second Sheet).

**g. Registered Society & Registered Trust:**

i) A copy of Certificate of Registration

ii) A copy of Memorandum of Association of Society/Trust Deed

iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create

iv) Liability against the Society/Trust.

v) A copy of Rules & Regulations of the Society

vi) All other documents in terms of Para 10 of the Tender Form (Second Sheet) above.

**B** If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.

**C** After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/LLP etc. shall be neither asked nor considered, if submitted. Further, no Suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.

**D** A tender from JV shall be considered only where permissible as per the tender conditions.

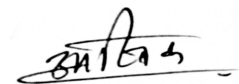
**E** The Railway will not be bound by any change of power of attorney or in the composition of the firm made subsequent to the submission of tender. Railways may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

## 12.0 Power of Attorney

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

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the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.

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

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

### **13.0 EMPLOYMENT, PARTNERSHIP, SHARE etc. of Retired Railway Employee:**

a.Should a tenderer

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

AND

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

THEN

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

b.In case, upon successful award of contract, should a tenderer depute for execution of the works under orto deal matters related with this contract, any retired Engineer of gazette rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.

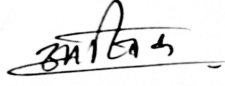
c.Should a tenderer or Contractor being an individual, have member(s) of his family or in the case of partnership firm/company / joint venture (JV) / registered society / registered trust etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1%in the tendering entity employed in gazetted capacity in the Engineering or any other department of the railway, then the tenderer at the time of submission of tender, will inform the authority inviting tenders the details of such persons.

**Note:** -If information as required as per 16.a), b), c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of the Standard General Condition of contract.

### **14.0 Errors, Omission & Discrepancies:**

The contractor(s) shall not take any advantage of any mis-interpretation of the conditions due to typing or any other error and if in doubt, shall bring it to the notice of the Engineer, without delay. In case of any contradiction only the printed rules, and books should be followed and no claim for the mis-interpretation shall be entertained.

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**15.0 Acceptance / Rejection of Tender(s):**

- 1.The authority competent for the acceptance of this tender does not bind himself to accept the lowest or any other tender nor does he undertake to assign reasons for declining to consider any particular tender or tenders. No tenderer(s)/ tenderer(s) shall demand any explanation of the cause of rejection of her/his/their tender. No correspondence will be entertained with the tenderer(s)/tenderer(s) in respect of the rejection of any or all tenders.
- 2.The tender containing erase and/or alterations of the tender documents are liable to be rejected. Any corrections made by the tenderer(s) in his/their entries must be attested.
- 3.If a tenderer(s) deliberately gives/tenders wrong information in her/his/their tender or creates circumstances for the acceptance of his/their tender, the Railway reserves the right to reject such tender at any stage.
- 4.If a tenderer(s) expires after the submission of his tender or after the acceptance of his tender, the Railways shall deem such tender as cancelled. If a partner of the firm expires after the submission of their tender or after the acceptance of their tender the Railway shall deem such tender as cancelled unless the firm retains its character.

**16.0 Local Conditions:**

- 1.It will be imperative on each tenderer(s) to fully acquaint himself with all the local conditions and factors which would have any effect on the performance of the contract and cost of the stores. The purchaser shall not be entertaining any request for clarifications from the tenderer(s) regarding such local conditions. No request for the change of price or time schedule of delivery of stores shall be entertained after the offer is accepted by the purchaser on account of any local condition or factor.
- 2.In the event of the tenderer(s) desiring to have a field survey before furnishing his quotations, he may apply to Railway for permission in this regard. Such permission will be given in writing by the Railways but the expenses in this regard will be borne by the tenderer(s) completely.
- 3.The intending tenderer is advised to study the tender papers carefully. Any submission of a quotation by the tenderer(s) shall be deemed to have been done after a careful study and examination of these documents with full understanding of the implication thereof. These conditions and specifications shall be deemed to have been accepted unless otherwise, specifically commented upon by the tenderer(s) in his quotation. Failure to adhere to anyone or all these instructions may render his offer liable to be ignored without any reference.
- 4.Should a tenderer(s) find discrepancies in, or omission from the drawing or any of the tender papers or he has any doubt to their meaning, he should at once notify the Railway who may send a written clarification to all tenderer(s).
- 5.Before submitting tender(s) the tenderer(s) is advised to inspect the proposed site of work and fully acquaint himself/themselves with the site conditions, working hours, type of land, trees or shrubs that he/ they will have to cut, stacking space for materials, approach roads, pathways available etc. and all relevant items connected with the execution of the work. No claim shall be entertained at a later stage by the Railway on such grounds from the contractor(s).

**17.0 Drawing(s) For the Work:**

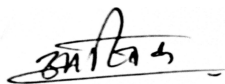
Drawing(s) for the work can be seen in the office of the Sr. Divisional Signal & Telecommunication Engineer (Co) Ahmedabad Division Western Railway, at any working day during office hours. The drawings are tentative and Railway reserves the right to make changes in plans if considered necessary and no compensation in any form will be admissible on this account. The contractor(s) will have to execute the work as per final plans at the rates quoted by him/them.

**18.0 Execution of Contract Agreement:**

The successful tenderer(s) shall be required to execute a contract agreement (hereinafter called CA) with the Railway for carrying out the work according to condition of Tender & Contract, Special Condition of Tender & Contract, Specification of Tender, "General Conditions of Contract", edition-2022 with latest amendments of W. Railway (which shall also be applicable in this work, although meant for use in connection with Civil Engineering Works) and Schedule of Work after depositing the required Performance Guarantee Bond (PGB) as detailed under Special Conditions of Tender & Contract. The Tenderer shall execute the contract documents agreement within seven days of notice from Railways that the Contract Agreement is ready.

The Contractor who has been awarded the work shall as soon as possible but not later than 30 days after the date of receipt of the acceptance letter in respect of contracts with initial completion period of two years or less or not later than 90 days for other contracts have to submit the detailed programme of work indicating the time

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schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organization (in terms of labour and supervisors), plant and machinery that he intends to utilise (from time to time) for execution of the work within stipulated date of completion. The programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the Contractor shall endeavour to fulfil this programme of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the Contractor in achieving earlier completion of item or whole of the works than indicated in the programme.

#### 19.0 NEGOTIATION WITH TENDERER(S):

The Railway reserves the right to hold negotiations with L-1 tenderer, who should be the lowest, valid, eligible and technically acceptable tenderer considered for award of contract directly if the rates were not unreasonably high.

#### 20.0 ADDRESS FOR COMMUNICATION:

Tenderer(s) shall indicate his fully communicable postal address, Mobile Number, email id, WhatsApp Number, telephone numbers, and fax numbers. Any communication sent to the tenderer(s) at his said address, shall be deemed to have reached timely, notwithstanding the fact that the communication could not reach the tenderer(s) at all or in time because of any inaccuracy or defect in the said address. Any change thereof shall be advised to the Railway promptly. All notices, communications, reference and complaints made by the Railway or the Engineer or the Engineer's Representative or the Contractor inter-se concerning the works shall be in writing or email on registered email IDs and no notice, communication, reference or complaint not in writing or through e-mail, shall be recognized.

**21.0 MOBILISATION ADVANCE:** Mobilisation Advance is applicable as per Para 46.(4) (a).  
(Applicable for tender more than 20 Cr.)

**22.0 PRICE VARIATION:** Price Variation is not applicable in this tender and even in the extended period.

**23.0 JOINT VENTURE:** Joint Venture is not permissible under this Tender. Different documents required to be submitted by JV partners may be studied in great detail given in GCC. Some documents need to be given by Each member of the JV.

**24.0 E-Reverse Auction:** Applicable only for tender costing more than 50 Cr. ( NA for this case)

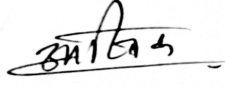
Electronic Reverse Auction (e-RA)

- i) The process of e-RA will be followed for works tenders Valued more than Rs. 50 Cr.
- ii) Technical Bid and Initial Price offer.
  - a) Bidders shall be simultaneously required to electronically submit a Technical commercial Bid and Initial Price offer. Offers found eligible for award contract/meeting eligibility criteria shall be categorised as Qualified for Award Contract for the purpose of e-RA.
  - b) Offers not complying with essential technical & commercial requirements of tender shall be declared as Ineligible for the award of contract.
  - c) Initial price offer of only those bidders categorised as Qualified for award of contract shall be opened and tabulated by the system separately.
- iii) Financial Bid:
  - a) Financial Bid shall comprise of Final Price Offer obtained through Reverse Auction. Following conditions and procedure shall be followed in selection of bidder..... Conduct of Reverse Auction.

Selection of bidders for Reverse for the award of Contract in work tenders:

Name of tenderers qualified for award of contract	Name of tenderers to be selected for Reverse Auction	Remarks
< 3	NIL*	The bids disallowed from participating in Reverse Auction shall be highest bidder(s) in the tabulation of initial Price Offer.
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More than 6	50% of bidders Qualified for award of contract (round off to next higher integer)	In case the highest bidders quote the same rate, the initial Price Offer received last, as per time log of IREPS, shall be removed first, on the principle of last in first out, the IREPS system itself
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\*If the number of bidders qualified for the Award of contract is less than 3, RA shall not be done and tender may be decided on the basis of Initial Price Offer(s).

b) During the Reverse Auction process, bidders shall not be allowed to bid a rate higher than the lowest Initial Price Offer.

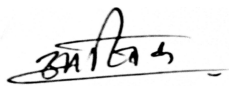
- iv) After obtaining the final bids of Reverse Auction, tenders shall be finalised as per the existing policy.
  - v) Date and time of start of e-RA will be communicated to qualified tenderers after evaluation of the Technical Bid.
  - vi) Initial e-RA period: 06 (six) Hrs (e-RA will be opened for this duration)
  - vii) 30(thirty) min (In case any offer is received in the time period equal to auto extension period from the time of last bid. There shall be no upper limit of the number of auto extensions. When no offer is received in the last auto extension period, e-RA shall be closed).
  - viii) Minimum decrement (%): 0.1 (Zero point one) %
  - ix) After submission of Initial Price Bid, tenderers will not be allowed to receive the taxes and other levies.
  - x) During the auction period, identities of the participating tenderer will be kept hidden.
  - xi) Minimum admissible bid value will be the last bid value minus minimum decrement as specified above. Starting point for reverse auction shall be the lowest Initial Price Bid of the tenderer eligible for award of contract.
  - xii) After close of e-RA, tabulation of last (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers.
- Bidders are not allowed to withdraw their last offer.
- xiii) L-1 will be defined as the lowest bid obtained after the closure of R.A. session.
  - xiv) Bidders may refer to the User Manual for contractors for Two stage Reverse Auction (Works Module), provided in the learning centre of IREPS website in case of any difficulty.

**25. Procurement of price sensitive equipment :** As per Railway Board guidelines, MSDAC, IPS, LED signals can be procured through works tender keeping price of these equipment in range of store procurement rates. To comply with these instructions, a separate schedule. To curb the tendency of increase the rates in supply of these items in Works contract schedule (Schedule B) for supply & installations of these items has been included in the rate sc, a reasonable limit needs to be imposed while quoting rates for this schedule.

As per AOR of USSOR 2021 of Railway Board rate analysis, 15% overhead charges are applicable on basic purchase rates of individual items. Thus the upper limit for quoting rates on this schedule will be 15%. Bidder shall give a compliance in summary statement of bid (Appendix I, Annexure A) that quoted rates for this schedule (Schedule-B) are within permissible limit.

In case it is found at the stage of finance Bid evaluation that rates for these items schedule is more than permissible limit, Bid will be considered not responsive and offer will be rejected summarily. Further, it will be treated as false information and will be dealt as per GCC/certificate of bidder for debarring in repeat tender.

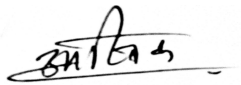
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**CHAPTER- III**  
**{SPECIAL CONDITIONS OF CONTRACT}**

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**1.0 GENERAL:**

- 1.1 The Special Conditions of Tender and Contract, along with the Technical Specifications and the Schedule of Works of this contract in addition to the General Condition of the Contract, 2022 with latest amendments shall also be applicable for this contract. Indian Railway Code for the Engineering Department with up to date corrections, Standard Specifications for materials and works and the Indian Railway Signal / Telecommunication Manual shall govern the work to be executed.
- 1.2 Where there is any conflict between the Special conditions of Tender & Contract and Specifications on one hand and General Conditions of Contract, 2022 on the other hand, the former shall prevail.
- 1.3 Any special conditions stated by the tenderer(s) in the covering letter submitted along with the tender shall be deemed to be the part of the contract to such extent only as have explicitly been accepted by the Railways, and incorporated in the contract agreement.
- 1.4 General details of site, works, scope of work, definition of similar works, etc. have been compiled as Appendix 2, Annexure-1.

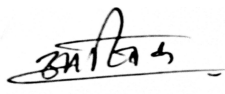
**2.0 Scope of the Work:**

The scope of the work broadly includes supply of materials and execution of the work as described in details in the Schedule of Work, drawings and technical specifications of the tender, unless deviations if any, specifically approved by the Railway. (Pl refer Appendix 2, Annexure 1)

**3.0 Programme of Works:**

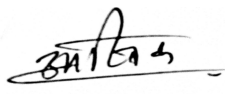
- 3.1 **Completion Period:** The contractor shall have necessary resources to execute the work so that the entire work is completed within a period as specified in NIT header from the date of issue of Letter of Acceptance of the tender. The Progress of Work shall commensurate with Target set by Zonal Railways/Railway Board. The Contractor has to perform accordingly with required resources to execute the work in time. Penalty may be invoked, if the Progress required is not met in time.
- 3.2 The Contractor who has been awarded the work shall as soon as possible but not later than 30 days after the date of receipt of the acceptance letter in respect of contracts with initial completion period of two years or less or not later than 90 days for other contracts have to submit the detailed programme of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organization (in terms of labour and supervisors), plant and machinery that he intends to utilise (from time to time) for execution of the work within the stipulated date of completion. The programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the Contractor shall endeavour to fulfil this programme of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the Contractor in achieving earlier completion of item or whole of the works than indicated in the programme.
- 3.3 The arrangement or the approval of the programme by the Engineer shall not relieve the contractor of any of his responsibilities to complete the various sections of the work.
- 3.4 If the work does not commence within specified date of starting or if at the subsequent time the rate of execution falls below the specific programme as mentioned above, the Railway Administration will have the power to determine the end of the contract at any stage without incurring any liability on the part of the Railway Administration for any sort of compensation for the money invested by the contractor the loss incurred by him / them, due to such termination of the contract. In all cases of incomplete work, either by termination of contract by the Railway Administration under consideration stated above or due to failure on the part of the contractor to complete the work within stipulated date of completion of the Agreement, the Railway shall be entitled to take the action for rescinding the contract in terms of Clause 62 of GCC-2022 with latest amendments.
- 3.5 The contractor shall be held responsible for the execution of the work according to the Programme given above for the execution of the work in full compliance of the approved SIP, PD & RCC and also the various clauses of the technical supplements, Technical specifications, instruction and drawings available separately. Failure to comply with any of these will be dealt with as per provision laid down in General Conditions of Contract 2022.
- 3.6 The contractor on his part will have to employ labour in full strength commensurate with the working area available. He will also arrange matching materials and equipment to complete the job most expeditiously so as to ensure that the work is completed in phases within the stipulated period.

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- 3.7 No facility whatsoever, e.g. provisions of approach road and provision of temporary level crossing etc. will be provided by the Railway for carting materials. Approach roads within the Railway limits can be used carting materials.
- 3.8 The contractor shall collect the materials and shall commence the work on receipt of Letter of Acceptance of Tender.
- 3.9 The contractor shall have to procure all the requisite tools for execution of the work before the actual commencement of the work and the contractor shall satisfy the Engineer-in-charge that the tools so procured are of good quality.
- 3.10 Supervising personnel as deemed necessary shall be posted at the site of work by Railway and such personnel will give demarcation for installation of various Signal and/or Telecom equipment and the contractor shall then carry out the work as per approved plans and specification etc.
- 3.11 The contractor shall give at least seven days' notice to the Engineer-in-charge regarding commencement of the work, so that he can arrange supervisory staff in time. The Contractor shall complete the work in a reasonable time as allowed without causing hindrance and disturbance to train working.
- 3.12 The successful tenderer(s) will however have no claim or right in the execution of any work which in the opinion of Engineer should be carried out departmentally or otherwise and the Railway reserves the right at any time to keep back from the contract and carry out the work or any portion of the work through any other agency, it may think necessary, without assigning any reason. No claim for compensation / loss or whatsoever on this account will be entertained by the Railway.
- 3.13 No work on working installations shall be undertaken without the specific permission of the Railway representative and without the presence of Railway representative at the site of the work
- 3.14 The contractor shall be responsible for safe custody of all newly installed equipment including Railway materials, if any, till such time installation is completed in all respects and is taken over by the Railway.
- 3.15 The work during execution shall be subjected to checks and tests at all stages as prescribed in Technical Specification. The tests shall be carried out by the engineer-in-charge or his authorized representative. After taking the test a list of discrepancies / deficiencies, if any, shall be given to the contractor. The contractor shall be liable to remedy such discrepancies/ deficiencies as discovered during these tests and make good at his own cost, within a period of 30 (Thirty) days from the date of testing.
- 3.16 The contractor shall have to arrange adequate tools and measuring equipment for execution of the work at his own cost.
- 3.17 If at any time, any materials or tools which the contractor would normally have to arrange for himself for executing the work is supplied by the Railway either at the contractor's request suo-moto in order to prevent possible delay in the execution of the work due to contractor's inability to make adequate arrangements for the supply thereof or otherwise, such materials or tools may be made available to the contractor from the Railway stores if available at the discretion of engineer-in-charge.
- 3.18 In case of loss or damage caused to materials and/or tools supplied as mentioned above recovery shall be made from the contractor in terms of clause No. 11.1 of CHAPTER III OF SECTION I of tender document.
- 3.19 If the materials or tools however, not available in Railway stock or Railway decides not to supply the same, whatsoever be the reason, the Railway shall not be bound to arrange for the supply nor will this fact be accepted as an excuse for delay in the execution of the work.
- 3.20 NA.
- 3.21 While executing the work any increase of quantity upto 25% shall in no degree affect the validity of the contract and shall be performed by the contractor as provided therein and be subject to the same conditions, stipulations and obligations originally included and approved for in specification and drawings and the amount to be paid thereof shall be calculated in accordance with the accepted rates of the schedule.
- a) For completion of the work if any necessity arises for execution of excess quantity of any item (work as well as supply) beyond 25% of the quantity provided in the schedule of work, the contractor shall notify the engineer-in-charge at least 7 (Seven) days in advance. The Railway shall have the option to execute such extra work / supply by any other means and the contractor shall have no claim for loss or damage that may result from such procedure.
- b) The rates for such items increasing beyond 25% shall be decided in terms of GCC, 2022 (along with all correction slips).
- 3.22 Commissioning Tests:**  
After execution of all the items of the work as per schedule of the work the contractor will offer the entire work for commissioning tests with at least 15 (fifteen) days advance intimation to the Engineer-in-charge.

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In case of any faults detected during the said test, the contractor shall be responsible for localization of fault(s) and rectify of those at his own cost and then re-offer for testing, till the entire work is finally cleared for acceptance by the Engineer-in-charge.

Any special type of Measuring Instruments and accessories required for Commissioning Testing of the installations are to be arranged and brought at site by the contractor at his own cost

#### 4. DISCONNECTION WORKING –

The Instant Work also includes establishment of new communication between adjacent stations.

- (a) Block Section - Working on Quad/OFC Cable in Block Section between Station “A” and “B” there should be a good jointer available in Block section for jointing along with the necessary help for doing the job to the satisfaction of supervisor In-charge.
- (b) At Station – One no. of Technical Person to be placed at each Station “A” and Station “B” during disconnection for any kind of technical support during disconnection/reconnection. Same should be competent for Quad/OFC Parameter measurement.

#### 5.0 COMPLETION & COMMISSIONING of the Work:

- 5.1 (i) The work shall not be considered to have been completed in accordance with the terms of contract until the engineer in-charge shall have issued certificate in writing to this effect. No approvals of material or workmanship or approval of part of the work during the program of execution shall bind the engineer in-charge of in any way prevent him from even rejecting the work which is claimed to be completed and to suspend the issue of his certificate of completion until such alterations and modifications of reconstruction have been effected at the cost of the contractors as shall enable him to certified that the work has been completed to his satisfaction.

- (ii) After the work is completed, the contractors shall give notice of such completion to the engineer in-charge and within 30 days of receipt of such notice the engineer in-charge/ site-engineer nominated by engineer-in-charge shall inspect the work and if there is no defect in the works shall furnish the contractor with a certificate indicating the date of completion. However if there are any defects which is in the opinion of engineer in-charge are rectifiable he shall inform the contractors the defects noticed. The contractor after rectification of such defects shall notify the engineer in-charge and then the engineer in-charge shall inspect the work and issue the necessary completion certificate within three days if the defects are rectified to his satisfaction and if not be shall inform the contractor indicating defects yet to be rectified. The time cycle as above shall continue.

#### 5.2 Work Closure:-

A) **Work closure without AMC schedule:-** Refer to GCC code 51 (1).

B) **Work Closure with AMC Schedule of specific equipment:-**

If the AMC of EI or (any other specific equipment) is the part of the original work/tender, it will be executed by the Open Line division under the following conditions:

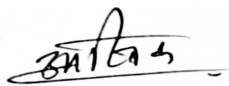
**Schedule of AMC-** Schedule will be separate for AMC part. AMC condition shall be clearly defined including cost, time, periodicity, availability of staff, penalties etc.

**Date of Commencement of AMC:** The AMC will commence based on the expiry of warranty periods.

**Bank Guarantee (BG):** A separate Bank Guarantee will be obtained for the AMC for the 5% value of AMC schedule cost for validity of complete AMC period.

**Agreement Execution:** The AMC agreement will be executed between the Sr. Divisional Signal & Telecom Engineer (Sr.DSTE) and the Contractor and will be called as subsidiary AMC contract agreement

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**Handover of AMC:** The AMC portion shall be handed over to the Sr.DSTE after the completion of warranty period and handed over to Sr DSTE within one month, through separate subsidiary contract agreement of AMC.

**Closure of Work/Final Bill:** The work shall be closed after handing over the AMC portion to the Open Line division. In case, AMC part was not agreed to execute by open line, contract can be close without operating this item.

#### 6.0 Extension (s) to Completion period:

- i. Time is the essence of the contract. Extension of time for the completion of the work shall be governed by Clause No. 17 of the General Condition of Contract with latest amendments edition and the contractor shall be responsible for requesting such extension in terms thereof.
- ii. The contractor will have to complete the work, within specified period from the date of issue of the letter of acceptance of this tender, unless any extension to the date of completion is granted subsequently as per General Condition of Contract 2022 with latest amendments edition (GCC) vide clause no. 17, 17A(i) (ii) (iii).
- iii. Extension under Clause No. 17(B) provides recovery of liquidated damages from the contractor. If the extension period is granted due to contractor's delay, clause No. 17(B) of GCC will be implemented.

#### 7.0 Time Limitation:

- i. Subject to any requirement in the contract as to execution of any portion or portions of the work before completion of the whole, the contractor shall fully and finally complete the whole of the work comprised in the contract by the date entered in the contract, provided that if any modifications have been ordered which, in the opinion of the Railway engineer have materially increased the magnitude of the work, then such extension of the contract date of completion may be granted as shall appear to the Railway Engineer to be reasonable in the circumstances, provided moreover that the contractor shall be responsible for requesting such extension of the date as he may consider necessary as soon as cause thereof shall arise and in any case not less than one month before expiry of the original date fixed for completion of the work.
- ii. In all cases where extension of the contract date of completion is required the contractor shall have to make normal request in writing to the Engineer-in-charge of the work who shall then promptly forward such request to the competent authority with his clear and complete comments, recommendation and any other information as necessary for obtaining final decision by the competent authority.

#### 8.0 Inspection of Works:

- (i) **Field Book and Order Book** in terms of Paras 1122E and 1123E respectively of the Engineering Code shall be maintained at the site of the work by Railway wherein instructions regarding the working etc. shall be recorded by the Engineer or his executive subordinates. It is expected of the contractor of his representative at the site to note such instructions whenever asked upon to do so and take action accordingly.

The contractor shall maintain accurate records, plans and charts showing the dates and progress of all main operations and the Engineer shall have access to this information at all times. Records of tests made shall be handed over to the Engineer's representative after carrying out the tests. The following registers will be maintained at site, by the Railway's representative.

- (ii) **Site Order Register** - All instructions issued by the engineer or the supervisor to the contractor or his representative as the case may be, shall be entered. The contractor(s) or his/their representative at the site shall acknowledge such instructions whatever asked upon to do and take action accordingly. The contractor shall promptly acknowledge orders given therein by the Engineer or his representative or his superior officers and comply with them. The compliance shall be reported by the Contractor to the Engineer in good time so that it can be checked.

- (iii) **Field Book** - In the Field Book, the date of inspection and particulars of any special features, incorrect practice(s) and deficiencies observed in the work being executed and/or materials supplied by the contractor shall be recorded by the Engineer or his executive subordinates. It will be the responsibility of

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the contractor to rectify the deficiencies observed (if any) at his own cost and also to prevent any recurrence. Complaints, deficiencies if any, pointed out by the contractor or his representative shall also be recorded in this book.

- (iv) **Hindrance Register** - A hindrance register should be maintained by the contractor to record various hindrances encountered during execution. The hindrances are to be noted on a day to day basis with date of occurrence and removal. Disputes, if any, should be included in the program status report and discussed with the contractor in weekly/monthly/steering committee meetings. Record of hindrances can be used to seek contractual extension of dates for milestones, consequent compensation for delays as well as raise attention for early removal of hindrance.

All registers at item (i) to (iii) mentioned as above will be maintained by the representative of the contractor and signed by the representative of the engineer. Any other registers considered necessary by the Engineer, shall be maintained at site in which the representative of the Engineer and the contractor will have to sign. The registers, proforma charts, etc. will be the property of the Railway. Registers as mentioned above will have to be maintained depending on the scope of the work as prescribed by Engineer's/representative at site.

## 9.0 Inspection of Trenches, Chases and Fillings:

Details can be seen in tender schedule specifications.

## 10.0 Representation on Works:

- a) The contractor shall when he is not personally present on the site of the work, place and keep a responsible agent at the works during working hours who shall on receiving reasonable notice, present himself to the Engineer and orders given by the Engineer or the Engineer's representative to the agent shall be deemed to have the same force as if they had been given to the contractor. Before absenting himself, the contractor shall furnish the name and address of his agent for the purpose of this clause. The Contractor shall place and keep on the works at all times efficient and competent staff to give necessary directions to his workmen and to see that they execute their works in sound and proper manner and shall employ only such supervisor, workmen and labourers in or about the execution of any of the works as are careful and skilled in their various trades.

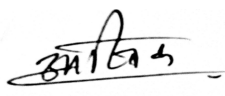
The contractor shall at once remove from the work any agent, supervisors, workmen or labourer who shall be objected to by the Engineer and if and whenever required by the Engineer. He shall submit a correct return showing the names of all staff and workmen employed by him. In the event of the Engineer being of the opinion that the contractor is not employing on the works a sufficient number of staff and workmen as is necessary for the proper completion of the works within the time prescribed, the contractor shall forthwith on receiving intimation to this effect take on the additional number of staff and labour specified by the Engineer within seven days of being so required and failure on the part of the contractor to comply with such instructions will entitle the Railway to rescind the contract under Clause-61 of the General Condition of contract 2022 with latest amendments edition.

The contractor(s) shall nominate in writing his representative(s) on the works who will be authorized to receive and acknowledge materials issued by the Railway and take all orders issued by the inspecting official of the Railway, as mentioned in clause No. 9.0 above before commencement of execution of work at site, with intimation to the engineer-in-charge well in advance. Contractor shall also ensure that at least one nominated representative remains available at site during execution of work.

Regarding representation on works and supervision, the provisions in clause 12 of General Condition of Contract and clause 24 of Standard Special Condition of contract shall be applicable respectively.

- b) **Night work:** The provision in clause 23 of General Condition of Contract shall be noted regarding execution of work between sunset and sunrise. If the contractor is, however, satisfied that the work is not likely to be

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completed in time except by resorting to night work, by special order the contractor would be requested to carry out the work even at night, without conferring any right on the contractor for any extra payment for introducing night work. In the event of night working, the contractor will make necessary adequate lighting arrangements for smooth execution of the work. If the contractor works round the clock on all days including Sundays and holidays, the Railway shall make arrangements for the supervision accordingly.

#### 11.0 MATERIALS (Supply, Transportation, Inspection, Handling, return & Safe Custody):

**Consignee of Work** : SSE/Tele-II/ADI

**Supply of item shall be:** SSE/Tele-II/ADI

**Engineer In charge** : DSTE/ADI.

- (i) Supplies of some items have to be supplied as per IRS/RDSO specification. In such cases, material has to be supplied from RDSO approved vendors only. However, for items for which vendors have not been approved by RDSO, make of equipment has to be approved by Engineer Incharge before procurement of items.
- (ii) For all other supply items which are to be supplied as per non IRS/RDSO specification costing more than 1% of tendered cost, make and supplier name has to be approved by Engineer In Charge if they are not already mentioned in tendering stage or in schedule or LOA.
- (iii) All the materials, except mentioned otherwise, are to be drawn by the contractor or his authorized representative from the Store depot of the Consignee, as per instruction of the Engineer-in-charge of the work, by placing requisitions as and when required supported by Indemnity Bond to the approximate value of materials in the requisition. Railway will supply required quantity of materials, if felt necessary for completion of the work. All of these materials are to be transported to the site of the work by the contractor as per the details given in the tender schedule. The Indemnity Bond shall not be released till such time the materials for which the INDEMNITY BOND is furnished are installed and handed over with full account to the Railway by the contractor.

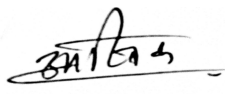
#### I.MATERIAL HANDLING

- a) The materials as detailed in Schedule shall be brought by the contractor to the site of work after offering the same in the office of **Consignee** for inspection and record. The contractor shall have such materials by authorized representative of Engineer-in-charge before being used for the work. He will also produce necessary inspection certificates to prove that the materials have already been passed by RDSO/RITES/CONSIGNEE where required. The materials have to be submitted to the office of **Consignee** along with the challan of the firm who has supplied the material and will be taken into the account of the Supervisor-in-charge and then shall be issued to the contractor, supported by Indemnity Bond; equal to the value of payment claimed by the contractor for materials supplied.
- b) The contractor shall be liable to render full accountability for the materials issued by the Railway. If the quantity of the Railway materials is consumed in excess or wasted or damaged or lost or otherwise not satisfactorily accounted for, recovery shall be made from the contractor at twice the assessed rate of materials, prevailing at the time of last issue of the materials, if necessary by en cashing the Indemnity Bond. The assessed rate will be calculated by escalating the W. Railway's last purchase rate at the rate of 12% (Twelve percent) cumulative per year or part thereof. Materials consumed in excess or wasted or damaged or lost or unsatisfactorily accounted for shall be similarly charged to the contractor at the above rate.

#### RETURN OF RLY MATERIALS:

The contractor has to return at his cost any cut pieces of wires / cables etc. that may be left out and any surplus materials from the work and other packing materials that might have been handed over to him. These shall be handed over to **Consignee**. The contractor shall take proper written acknowledgement from the representative of the Engineer-in-charge for all the materials returned by him.

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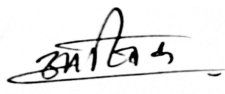


The Signalling and Telecom materials for which RDSO approved/Recommended List firms exist should be procured from approved/Recommended List firms only. No materials are to be procured from firms which are banned by Railway Board/RDSO.

**12.0 Inspection of Materials:** In addition to what is indicated in the GCC of W. Railway, the Contractor shall also adhere to the following:

- a. All Materials supplied are to be inspected by the respective Inspection Authorities. As a General rule, items supplied as per RDSO specification are to be inspected by RDSO/RITES if the value of the item is more than 5 lakhs. Items supplied as per IS & other specifications to be inspected by RITES/Consignee depending upon value of item.
- b. Inspection Charges for RDSO and RITES shall be borne by Contractor, subject to the provisions herein contained.
- c. The cost of all Tests and/or/Analysis affected at the Manufacturers or Contractors premises shall be borne by Contractor. Tests Parameters as given in technical specifications/RDSO specifications, which are not possible to test at factory/OEM's premises/Indian representative premises, necessary test reports of type tests/routine tests reports need to be submitted to the satisfaction of Engineer in-charge.
- d. The materials put up for Inspection shall be of the same type nature as specified in the Schedule and Specification. Any variation shall require prior approval of the Railway.
- e. The expenses of travel, boarding etc. for Railway Engineer's representative incurred inwards Inspection shall be borne by Railway.
- f. After inspection the contractor shall produce the materials along with Inspection Certificate, to **Consignee** for acceptance.
- g. If any material is found by the Engineer-in-charge to be not as per the specification or not in proper condition the same is to be replaced by the contractor within 15 (Fifteen) days free of cost. For this the Engineer-in-charge's decision is final and binding on the contractor.
- h. All the materials inspected and passed shall be marked suitably by the inspecting official and are to be kept under contractor's custody which will be used for execution only in presence of Railway supervisor at site. However, Railway reserves the right to reject any material, if found spoiled / damaged during execution, for which the contractor shall replace at his cost.
- i. Any material rejected by the inspecting official due to not being as per the specification or not in proper condition, the same is to be removed by the contractor within 7 (Seven) days at his cost. For this the decision of the inspecting official shall be final and binding on the contractor.
- j. The Engineer's representative has all the powers to inspect the materials at any stage and reject defective or inferior Work or Material. The contractor shall carry out such tests as may be required in the opinion of the Engineer at his cost.
- k. Any material can be installed only after inspection and acceptance by the Railway's Representative.
- l. Contractor may be called on to pay all expenses incurred by Railway in respect of work or material found to be defective or of Inferior Quality or otherwise unacceptable.
- m. Contractor shall be responsible for checking the materials before taking delivery from Railway Stores that all the materials given to him are in good condition. Any replacement required for defective/broken parts have to be requisitioned and obtained from the depot of the Subordinate in-charge of stores after returning the defective broken equipment provided the Railway Engineer is satisfied that such breakage/defects etc. is not due to the negligence etc. of the contractor or his representatives. He must also ensure that the materials supplied by him are also in good condition and if any defect /discrepancy noticed in the course of inspection of the Engineer or his authorized representative will have to be rectified/replaced at his own cost.
- n. The materials issued by the Railway shall be used solely and economically for the purpose of the works covered under this contract only. The materials shall be used in such quantities and manner as are indicated in schedule or as approved by the Engineer-in-charge of the works whose decision thereon shall be final. Wastage or damage to materials shall not be caused by the contractor in any manner.
- o. The contractor shall be liable to render full account for the materials issued by the Railway. The contractor has to return to the **Consignee** Store Depot cut pieces of wires / cables that may be left out and surplus materials, if any, from the work and other packing materials that might have been handed over to him and shall take proper written acknowledgement from the Engineer's representative for all the materials returned by him.
- p. A joint statement of materials issued, used and material returned shall be made by the Contractor and Engineer's representative. Such Joint Material Statement shall be checked and endorsed by the Site Engineer.
- q. If any quantity of the Railway materials consumed in excess or washed or damaged or lost or otherwise not satisfactorily accounted for recovery shall be made from the contractor at twice the market rate of materials prevailing at the last issue of the materials.

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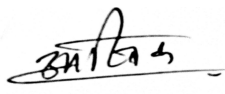
  
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- r. If the materials, tools as however not available in the Railway stock, or the Railway decided not to supply the same, whatever be the reason, the Railway shall not be bound to arrange for the supply nor will this fact be accepted as an excuse for delay in the execution of the work.
- s. The site supervisor of the work and the contractor shall make out a list jointly signed for the materials, if expected to be released from a station and then after collection of the released materials by the contractor, the same shall be transported and handed over to **Consignee**
- t. Stores Depot was directed by **Consignee** after verifying the released materials with the list jointly prepared by Inspector-in-charge & the Contractor and acknowledged the receipt.

### 13.0 Safe Working Methods:

- a) The Contractor shall at all times adopt such safe measures of working and will ensure safety of train traffic, structures, equipment and labour.
- b) Fluorescent jackets, Shoes and protective Gears to work in the RE area must be provided by the contractor to his labour / staff working on the track, failing which they will not be allowed to work near the track. Contractor will be solely responsible for delay in work, if work is stopped by the Railway due to such circumstances.
- c) Trenching for laying cable across track/ road and laying of cable across track/road shall be done only in presence of Railway's representative. It shall be ensured by the contractor that digging of trenches, for cable laying, and pits for foundations do not cause any unsafe condition to the running of trains.
- d) No work on a working installation such as, points, signals, track circuits, level crossing gates, STMs, MUXs, cabin level frame, bridges, yards,, etc., shall be undertaken without specific permission of the Railway's representative and in the absence of Railway's representative at the site of work.
- e) The contractor shall take all precautionary measures in order to ensure protection of his own personal moving about all working on the Railway premises and shall have to conform to the rules and regulations of the WESTERN RAILWAY. As and when, while the work under the contract is in progress, there is likely to be any danger to the persons employed by the contractor due to running traffic or while working on Railway premises, the contractor shall apply in writing to the Railway to provide flagmen and look out-man for protection. The Railway will however, decide as to whether it is necessary to post such flagmen and look out-man for various types of works and also the number of such men required to protect the contractor's staff working at site. The flagmen and look out-man will be Railway servants and no expenses on this account will be recovered from the contractor.
- f) The contractor should abide by all the Railway regulations and also ensure that the same are followed by his representatives, servants or Sub-contractor or workmen. He is, therefore, bound under this clause to give notice to them about the provision of this clause and the consequent liabilities of the contractor under the agreement.
- g) Within the station, especially on the passenger platform, the contractor shall ensure sufficient free space for movement of passenger traffic. He must cover the excavations carried out in such areas with a view to avoid any accidents.
- h) The work must be carried out most carefully in such a way that they do not hinder the Railway operation except as agreed to by the Railway.
- i) The contractor's employees and workers shall not for any reason operate any appliance or installations of the Railway concerning the safety of train movements, but they should whenever necessarily notify the qualified Railway staff who will then take necessary steps. Special precautions are to be taken for installation of point machines. If required, the spacing of sleeper in connection with installation of point machines has to be done by the contractor.
- j) The contractor shall abide by the Indian Electricity Act and the Indian Electricity Rules as amended from time to time.
- k) Suitable ladders for climbing the posts and slings for supporting men on the post shall be used. Ropes if required shall be used for erection of the Poles. The size of the rope shall be adequate. The contractor shall take necessary precautions for working near the power lines. If at any time the Railway finds the safety arrangement is inadequate or insufficient, the contractor shall take immediate corrective action as directed by the Railways representative at site. Any direction in the matter shall in no way absolve the contractor of his sole responsibility to adopt a safe working method.
- l) Necessary personal safety equipment as considered adequate by the Engineer-in-charge should be kept available for the use of the persons employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned.

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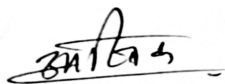
  
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- m) No electrical apparatus which is liable to be a source of danger used by the operator shall remain electrically charged.
- n) Suitable face masks should be supplied by the contractor for use by the workers when paint is applied in the form of spray.
- o) Steps taken in order to avoid damages to Railway Installations:  
The contractor shall see that no damage is caused to Railway Signaling and transmission wires, cables, station installations, communications lines, electric devices, trains, tracks, any kind of fencing as well as any rolling stock and in general to all Railway installations and equipment. If any damage is caused to or suffered by any Railway property, by or as a consequence of the acts or unlawful omissions of the contractor, its employees and workmen or other persons connected with it, the necessary repairs or replacement shall be effected by the Railways at the risk and cost of the contractor. The said expenses shall be recovered from the money due and payable to the contractor or by the other appropriate process.
- p) Contractor's liability costs, damages etc:  
All costs, damages and expenses which the Railway may incur or suffer and which are recoverable from the contractor under the terms of this contract of the relevant law may at the discretion of the Railways, be recovered by deducting the requisite amounts from any money due and payable or refund to the contractor on any account whatsoever or by legal proceeding. The Railway also reserves the right and shall be entitled to retain payments due to the contractor under this contract and to set off the same against all claims whether arising out of this contract or out of any other transaction whatsoever against the contractor, in exercising this right the Railway shall not act unreasonably.
- q) In the event of any breach of the aforesaid conditions, the contractor shall in addition to throwing himself open to action for contravention of the terms of the agreement and or for criminal breach of trust, be liable to account to Government for all money, advantages or profits resulting on which in the usual course would have resulted by reason of such breach.
- r) No vehicle will normally be permitted to play adjacent to the running lines. The contractor will be responsible for the safety of hired trucks and men etc. working at the site. He will also be responsible for any damage caused to the Railway property, staff and passengers' vehicles having been allowed to ply on the Bank, in case of an accident of any nature, the contractor will be indemnified for any losses caused by him as a result of the accident.
- s) Electric Supply: The contractor(s) should make his/their own arrangement for arranging electric supply, as may be required for work. The Railway may however assist in recommending his application to the electricity authority for the power supply. Contractor may make use of Railways electrical supply for indoor works such as for lighting, soldering, minor drilling works etc. free of cost at RBG rooms and Location Huts.
- t) Passes and Identity Cards: No Railway free passes will be issued to the contractor or his workmen for travel by train. However, identification letters may be issued to individuals employed for the work, on written demand from the contractors.

#### 14.0 Rates for Items:

- i) The estimated rates, quantities & amount in Rupees for each of the items of the Tender Schedules along with total Estimated Cost are given in the Tender Document. The Tenderer(s) shall not quote against the individual items of Schedules. They shall only quote as one single percentage above or below or at par to the total cost applicable for each Schedules in the nominated space provided under IREPS Website. The rate so quoted should be written both in figure & words.
- ii) The rate quoted by the contractor in the schedule shall be inclusive of all taxes and charges for labour, transportation, plants and equipment, tools, fuel and consumable (if any) etc. However, if rates of existing GST or cess on GST for Works Contract is increased or any new tax /cess on Works Contract is imposed by Statute after the date of opening of tender but within the original date of completion/date of completion extended under clause 17 & 17A and the Contractor thereupon properly pays such taxes/cess, the Contractor shall be reimbursed the amount so paid. Further, if rates of existing GST or cess on GST for Works Contract is decreased or any tax/cess on Works Contract is decreased / removed by Statute after the date of opening of tender, the reduction in tax amount shall be recovered from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.
- iii) No separate Discount shall be given separately except at the designated place in IREPS website.

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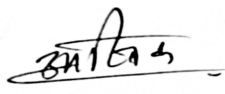
  
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- iv) No price escalation of the rate(s) shall ordinarily apply under this contract as detailed in Clause No. 31.0 of Special Conditions of Tender & Contract.
- v) Arrangement for permit and licence for materials will not be made by the Railway or any assistance given. The contractor(s) will have to make his/their arrangements. Also no import licence shall be arranged by the Railway for this work.
- vi) "ROAD PERMIT" for transporting the materials from manufacturer's premises to go-down/site of work will not be provided by the Railway nor any assistance given. The contractor will have to make his / their own arrangement for ROAD PERMIT.
- vii) The rate quoted by the contractor shall be the cost of complete work and shall include the cost of all labour and materials including transport, loading, unloading as well as sheds, construction plants, scaffolding and for which no separate payment is made to him on satisfactory completion of the work shall remain the property of the contractor.
- viii) The contractor shall entirely be responsible for ensuring safety of his labour, vehicles, construction plants and equipment while working, no extra payment shall be allowed to the contractor for any safety precautions to be observed during the execution of the work. The cost of such precautions shall be deemed to have been included in the rates for all the items of the schedule.
- ix) It shall be clearly understood that the rates to be quoted shall include all wastages and wash away either due to rains or storm or floods or other causes whatsoever. The rate shall also include the cost that may be necessary or stacking the materials at site of work.
- x) The quoted rates shall be deemed to include charges for all site facilities for labour that are considered necessary for execution of the work. Subject to availability of land the Railway may provide free site for labour camp, construction of yard etc. close to site of work.
- xi) No assurance can be given regarding the vulnerability of Railway land given for use to the contractor flooding during high floods. The Railway undertakes no responsibility or liability in this regard.
- xii) **Site facilities:** The rates should be deemed to include charges for any and all site facilities that are considered necessary for the execution of the work unless otherwise indicated in the contract. In this connection, specific attention is drawn to stipulations in clause 1(1) of the general condition of the contract.

## 15.0 QUANTITIES IN SCHEDULE AND THEIR VARIATIONS:

1. The quantities specified in the schedule of works enclosed herewith are approximate and meant to give the tenderer(s) an idea of the quantum of work involved. The Railway reserved the right to increase or decrease the quantities against various items and add/or delete from the items upto 25% of the quantities or even more as per the actual requirement at site. The successful tenderer(s) will have to execute all items required for the successful completion of the work at the quoted rates. The Engineer on behalf of the Railway is authorized to order in writing to enlarge, extend, diminish or reduce the works or make any alterations in the design, character, position of site, quantities, dimensions or in the method of their execution or in the combination and use of materials for execution thereof or to order any additional works to be done or any works not be done. The contractor shall be bound to carry the work.
2. The following procedures shall be adopted for dealing with variation in quantities during execution of work/contract:
  - Individual Schedule items (i.e. Schedule items as per Tender Schedule) in the contract shall be operated with variation of plus or minus 25% and payment would be made as per agreement rate. For this, no finance concurrence would be required.
  - In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered as unavoidable, the same shall be executed by floating a fresh tender. If floating a fresh tender for operating that item is considered not practicable, quantity of that item may be operated in excess of 125% of the agreement quantity, subject to the following conditions: -

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- (i) Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be upto 25% of the quantity originally contracted, except in case of foundation work (in which no variation limit shall apply). However, the rates for the increased quantities shall be as per sub- Para (iii) below.
- (ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever upto the limit of 25% variation in quantity of individual items of works.
- (iii) In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates
  - a. Quantities operated in excess of 125% but upto 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender;
  - b. Quantities operated in excess of 140% but upto 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;
  - c. Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.

**d. Variation to quantities of Minor Value Item:**

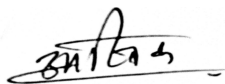
The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original contract value.

- (i) Quantities operated upto and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender;
- (ii) Quantities operated in excess of 100% but upto 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender;
- (iii) Variation in quantities of individual minor value items beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.
- (iv) In case of earthwork items, the variation limit of 25% shall apply to the gross quantity of earthwork items and variation in the quantities of individual classifications of soil shall not be subject to this limit.
- (v) As far as Standard Schedule of Rates (SSOR) items are concerned, the variation limit of 25% would apply to the value of SSOR schedule(s) as a whole and not on individual SSOR items. However, in case of Non Standard Schedule of Rates (SSOR) items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).
- (vi) For the tenders accepted at Zonal Railways Level, variations in the quantities will be approved by the authority in whose powers the revised value of the agreement lies.

The aspect of vitiation of tender with respect to variation in quantities should be checked and avoided. In case of vitiation of the tender (both increase as well as decrease of value of contract agreement), sanction of the competent authority as per single tender should be obtained.

In the event of any reduction in the quantity to be supplied or work to be executed for any reasons whatsoever the contractor shall not be entitled to any compensation but shall be paid only for the actual amount of work done or quantity of supply made in accordance with the accepted rate of the schedule. Supply of materials and works not covered by the schedule of work, but necessary for completion of the work as per approved plan, will be executed by the contractor, for which contractor will quote separately.

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**16.0 MEASUREMENTS & PAYMENT FOR WORKS:**

- i) In terms of clause No. 45 of General Condition of Contract measurements of the work in progress shall be taken and recorded in the prescribed official Measurement Book from time to time and at such intervals as in the opinion of the engineer-in-charge shall be proper having regard to the progress of the work. The contractor shall be present at the site and shall sign the results of the measurements (which shall also be signed by the engineer-in-charge or his authorized representative) recorded in the aforesaid measurement book as an acknowledgement of his acceptance of the accuracy of the measurements.
- ii) Under the Contract all bills would be passed through eMB only.
- iii) The Contractor shall be entitled to be paid from time to time by way of "On Account Payment" as per Clause 46 of General Condition of Contract, at the rate in the accepted schedule of rates only for the items of the schedule of works except for supply of materials as in the opinion of the Engineer-in-charge he has executed in terms of the contract.

**I. For Schedules:****A. For SCHEDULE A: (Supply)**

- a) 80% payment will be made on supply of the materials. Further 10% payment will be made on installation of the materials at site and the balance 10% will be paid after successful commissioning of equipment or all balance payment will be made after commissioning of the complete system.
- b) **100% will be paid for spares & for other items, which are not required to be erected by the contractor on receipt of the equipment and no loss certificate by consignee.**

**B. For SCHEDULE B: (Supply & Installation)**

90% payment will be made on completion of the Installation works and Balance 10% payment will be made on successful commissioning of the complete system.

II. The contractor shall be paid the final payment in terms of the clause No. 51 of the General Condition of Contract.

III. Implementation of outstation payment in Railway through RTGS / NEFT: Unless otherwise specified payments to the Contractor will be transferred electronically to his bank account. The tenderer(s) should submit their bank details.

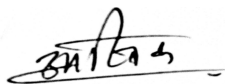
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The balance payment may be released against Bank Guarantee of an equal amount on the discretion of the competent authority, if commissioning is held up on Railway's account for a period of more than three months after the installation is tested by the contractor to the full satisfaction of Railways and kept ready for commissioning.

**However, if rates of existing GST or cess on GST for Works Contract is increased or any new tax /cess on Works Contract is imposed by Statute after the date of opening of tender but within the original date of completion/date of completion extended under clause 17 & 17A and the Contractor thereupon properly pays such taxes/cess, the Contractor shall be reimbursed the amount so paid.**

**Further, if rates of existing GST or cess on GST for Works Contract is decreased or any tax/cess on Works Contract is decreased / removed by Statute after the date of opening of tender, the reduction in tax amount shall be recovered from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.**

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**17.0 DEDUCTION OF INCOME TAX:**

The Railway shall at the time of arranging payment to the contractor be entitled to deduct Income Tax on the net amount (Excluding GST) of each bill, at specified rate decided by the Railway Board from time to time (at present the rate is 2%). An Income Tax Deduction Certificate can be issued to the firm on demand and the final settlement of Income Tax should be made with concerned income tax authority.

**18.0 GOODS & SERVICES TAX (GST):**

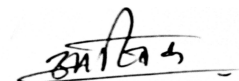
- a. Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer.
  - b. (Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt.& as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.
  - c. The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority.
  - d. In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/ SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.
  - e. When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf.
  - f. The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.
  - g. All the bidders / tenders should ensure that they are GST compliant and their quoted tax structure /rates are as per GST Law. Offer must be inclusive of Goods & Service Tax.  
Contractor shall be liable to pay/refund the amount collected as GST to the Indian Railways along with interest and penalties, if any imposed by the authorities, in case GST input tax credit of Indian Railways is denied/rejected by the tax authorities due to reasons mentioned below but not limited to:  
Wrong/incorrect invoice s is sued by Contractor ;  
No-filing of GST returns; Non-payment of GST collected from Indian Railways to the authorities;  
Any other non-compliance done by Contractor;
- General Indemnity:** Contractor hereby agrees to indemnify and hold harmless the Indian Railways from and against any and all losses, including loss on account of Input Tax Credit and all losses incurred by the Indian Railways relating to or arising out of or in connection with any actual or threatened claim, legal action, proceedings, prosecution or inquiry by or against the Indian Railways arising out, directly or indirectly, of failure by the contractor to comply with the provisions of GST and related laws, or based upon or arising from any failure by the Contractor.
- Retention Money:** Any payment liable to be paid by Indian Railways to contractor against the goods or services or both supplied by such contractor to Indian Railways shall be kept on hold in case supplier makes any non-compliance of any of the GST law provisions including non-reporting of invoices in GST returns. Such payment shall be released after proper verification of records and availability of ITC to Indian Railways as per provisions of GST Law.

**19.0 Issue of work completion Certificate:**

**19.1** Issue of work completion Certificate: As per Para 5 above.

**20.0 WARRANTY PERIOD/Defect Liability period:**

- a. The contractor shall be bound to rectify free of cost at site any defects and/or shortcomings that may arise in the work executed for a period of 365 (Three hundred sixty five) days after completion and taking over of



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the installation by the Railway. The aforesaid maintenance period of 365 days shall be reckoned from the date of taking over the work by the Railway, excluding day(s) that will lapse, from the date of sending the intimation by the Railway, to the Contractor (at his last known address) up to the date of completion of rectification. Should any dispute arise as to the correctness of the defects pointed out, the decision of Engineer-in-charge in this regard shall be final and binding. The necessary disconnection of working circuits /equipment (if any) for carrying out rectification shall be arranged by the Engineer-in-charge and such work shall be done only in presence of his authorized representative.

i. After completion of such rectification works, all the circuits and equipment shall be tested and checked thoroughly by an authorized representative of the Engineer-in-charge before reintroduction of normal working.

b. **Warranty for materials:** All the materials supplied under this contract shall be warranted for trouble free service for a period of 365 (three hundred sixty five) days from the date of commissioning of work.

c. **Removal of defective works:** If in the opinion of the Engineer, any of the works had been executed with improper materials or defective workmanship, the contractor when required by the Engineer, shall re-execute the same and substitute proper materials and workmanship forthwith at his own cost and in case of default of contract in so doing within a week, the Engineer shall have full power to employ other persons to execute the work and the cost thereof shall be borne by the contractor.

## **21.0 PROGRAMMING OF WORK TO AVOID INTERFERENCE WITH TRAIN MOVEMENTS:**

The contractor will programme his work in such a manner so as not to interfere in the working and movement of trains. No extra payment shall be allowed on this account and for taking any precautions or wastage of Contractor Labour, Time etc. due to train working

## **22.0 SITE CLEARANCE:**

At the end of the work in each section the contractor shall as a part of his contractual obligation leave the area completely cleared of rubbish and obstructions of all kinds according to the instructions of the Railways representatives. Besides, he shall take execution of work to avoid the presence of loose earth and ballast on platforms, in drains, on the track formation and pathways in the vicinity. If within fortnight of completion of the particular item of site work, the refuge is not cleared, the Railway will arrange to get them removed at the cost of the contractor. However, before the Railway actually gets the site cleared, intimation in writing shall be sent to the contractor.

## **23.0 PROGRESS REPORTING:**

There shall be a formal official meeting between Contractor and Engineer Incharge every 15 Days regarding the Work Progress. The contractor shall submit to the Railway at his own cost periodic progress reports at regular intervals regarding the state and progress of work. The details and proforma of the report will mutually be agreed after award of the contract. Such reports shall be for daily man power, equipment and plant deployment, weekly work progress and monthly progress review reports. All actions as directed by IR pursuant to such reports shall be promptly attended to.

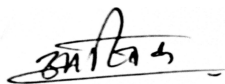
## **24.0 PRESENCE OF SUPERVISORS AT SITE:**

No work of wiring, commissioning / energisation of equipment, cable lying, jointing etc. should be carried out unless and until contractors technical supervisors are present at site.

## **25.0 TRAINING:**

i) The tenderer shall undertake to impart training to Railway staff either at site of installation or their factory premises in different aspects of equipment, its architecture, functioning and planning, management supervision, field installation supervision, commissioning, testing and maintenance both for H/W and S/W areas in order to transfer complete know how so as to impart full knowledge and confidence to independently execute successfully the erection and maintenance of the exchange. The training courses should include hands-on equipment, visits to installations apart from formal classes.

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- ii)The OEM should train the Railway personnel to such level of proficiency that they may carry out changes in the OEM specialised system without the help of OEM.
- iii)Expenses on travel, accommodation and the incidental expenditure on training program for the Railway Staff will be borne by Railway.
- iv)The subjects of training, details of courses etc. should be furnished on demand of the Railway and it should be ensured that the trainees are given sufficient material for technical reference and guidance as well as for imparting complete know-how.
- v)In addition to the above, tenderer should also quote for fees leviable, if any, for the various courses man-week wise and course-wise so as to enable Railway to depute additional employees if considered necessary.
- vi)The complete documentation on the courses should be supplied to the trainees. Railway, however reserves the right to vary the number of personnel as well as course modules and training periods so considered necessary.
- vii)A CD/PEN DRIVE made with the specific intent of giving training on the theory and maintenance of equipment shall also be supplied.

## 26.0 FORCE MAJEURE:

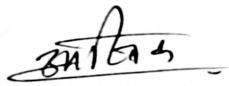
- 26.1** If, at any time, during the continuance of the agreement, the performance in whole or in part by either party of any obligation under the agreement shall be prevented or delayed by reasons of any war, hostile acts of the enemy, civil commotion, sabotage, fires, floods, explosions, epidemics/pandemic, quarantine restrictions, strikes and lock-outs and any statute, statute rules, regulations, orders or requisitions issued by any Govt. Department or a competent authority or acts of God (hereinafter referred to as eventualities), then provided notice of the happening of any such eventuality is given by either party to the other within 30 days from the date of occurrence thereon, neither party shall, by reason of such eventualities be entitled to terminate this contract agreement nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance.
- 26.2** Performance of the contract agreement shall, however, be resumed as soon as practicable after such eventuality has come to an end or ceased to exist. Provided that, if performance in whole or part of any obligation under the contract agreement is delayed by means of any such eventuality for a period exceeding six months, either party may, at his option, terminate the contract agreement provided further that in the event of such prevention or delay as aforesaid, then, instead of exercising the option, both parties may consult with each other with a view to agreeing between them the action mutually to be taken in order to minimise the effects of such prevention or delay and continue the operation of this contract agreement.

## 27.0 PERFORMANCE GUARANTEE BOND:

The procedure for obtaining Performance Guarantee is outlined below:

- a)The successful bidder shall have to submit a Performance Guarantee (PG) **within 21 (Twenty one) days** from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.
- i. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case the contract is terminated, the railway shall be entitled to forfeit Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect.
- ii. The failed Contractor shall be debarred from participating in re-tender for that work.

Tenderer's Signature  
Date

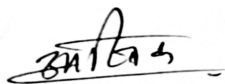
  
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- b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value:-
- A deposit of Cash;
  - Irrevocable Bank Guarantee;
  - Government Securities including State Loan Bonds at 5% below the market value;
  - Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India;
  - Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India;
  - Deposit in the Post Office Saving Bank;
  - Deposit in the National Savings Certificates;
  - Twelve years National Defence Certificates;
  - Ten years Defence Deposits;
  - National Defence Bonds and
  - Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of FA&CAO (free from any encumbrance) may be accepted.
- c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.
- d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.
- e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.
- f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
- g) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (notwithstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
- Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
  - Failure by the Contractor to pay the President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.
  - The Contract being determined or rescinded under clause 62 of these conditions.

## 28.0 ENGAGEMENT OF QUALIFIED ENGINEER:

- The contractor shall also employ Qualified Graduate Engineer(s) or equivalent, or Qualified Diploma Holder Engineer(s), as prescribed in tender documents.
- In case the contractor fails to employ the Engineer, as aforesaid in Para (i), he shall be liable to pay liquidated damages at the rates, as prescribed in tender documents.
- No. of qualified engineers required to be deployed by the contractor for various activities contained in the works contract shall be specified in the tender documents as 'special condition of the contract'.
- Accordingly in terms of provision of clause (i) above, contractor shall also employ following qualified Engineers during the execution of allotted work
  - One qualified Graduate Engineer when the cost of work to be executed is Rs.200 lakh and above, and
  - One qualified Diploma Holder Engineer when the cost of work to be executed is more than Rs.25 lakh but less than Rs.200 lakh.
- Further, in case the contractor fails to employ the qualified Engineer, as aforesaid in Para (iv) above, he in terms of provision of clause (ii) above, shall be liable to pay an amount of Rs.40,000/- and Rs.25,000/- for each month or part thereof for the default period for the provision, as contained in Para [iv (i)] and [iv (ii)] above respectively.

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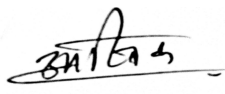
**a. The decision of the Engineer -in-charge as to the period of default and Amount shall be final and binding on the Contractor.**

- vi) The contractor during the entire course of the work shall abide by the Minimum Wages Act, 1948, Provisions of Apprentices Act, Provision of Payment of wages Act, Provision of Contract Labour Act, Provision of Workmen's Compensation Act, Provision of Mines Act and all Acts and Laws of the Land.
- vii) The contractor shall not employ men below the age of 18 years.
- viii) The deployed Technical Supervisory staff must be trained in railway Telecommunication system and safety in General. In case the person is not found trained, He will be sent to SBI/STTC for training immediately at the cost of the contractor.

**29.0 CONTRACT LABOUR ACT:**

- a) The contractor shall observe all the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and Central Rules 1971 or any statutory modifications or re-engagements thereof for the time being in force and any rules and regulations made thereunder in respect of all the persons directly or through petty contractors or subcontractors employed by him under this contract and shall indemnify the Railway from and against any claims under the Contract Labour (Regulation and Abolition) Act 1970 and Central Rules 1971 or any further rules and regulations framed thereunder, by or on behalf of any person directly or through petty contractors or subcontractors employed by him or otherwise.
- b) The contractor shall obtain licence from the Licensing Officer specified in the Act, paying necessary licence fee as per section 12 of the Act, 1970 and Rules 26 of the Central Rules, 1971. In every case in which by virtue of section 20(2) and 21(4) of the Contract Labour (Regulation and Abolition) Act, 1970, the Railway is obliged to provide amenities or pay wages to Labour employed by the contractor in executing the work, the Railway will recover from the contractor the expenditure so incurred by the Railway or Wages so paid, and without prejudice to the right of the Railway under section 20(2) and 21(4) of the said Act, the Railway shall be at liberty to recover such amounts or part thereof by deducting it from the security deposit or from any sum due to the Railway by the contractor whether under this or any other contract/contracts.
- c) The attention of the tenderer is drawn to the Contract Labour (Regulation & Abolition) Act, 1970, Contract Labour (Regulation & Abolition) General Rules 1971 and clause 55(2)(i) of the NF Railway Engineering Department Regulation for dy.ccsteTenders and Contract, General Conditions of Contract 2022 and Standard Special Conditions of Contract with latest edition. Successful tenderer(s) shall comply with the provision of the said Act and Rules, the CSTE/Dy.CSTE being the principal employers under the said Act and Rules.
- d) The attention of the contractor is also drawn to the rules of the Inter State Migrant Workmen (Regulation of employment conditions of service) Central rules 1980. The successful tenderer(s) should comply with these rules as per the said Act/1079 (ACF No. 30 of 1979) with Central rules 1980.
- e) Provided that if any dispute arises as to the expenditure incurred by the Railway in the provision of amenities under the said Act, the decision of the Engineer thereon shall be final and binding.
- f) Building and Other Construction Workers Act, 1996 and : The salient features of the Act are as follows:-
- g) It applies to every establishment which employs, or had employed on any day of the preceding twelve months, ten or more building workers in any building or other construction work.
- h) The cess shall be levied and collected @ 1% of the cost of construction incurred by an employer.
- i) For the purpose of levy of cess, cost of construction shall include all expenditure incurred by an employer in connection with the building or other construction work but shall not include:
- j) cost of land; and
- k) any compensation paid or payable to a worker or his kin under the Workmen's Compensation Act, 1923.
- l) Every building worker who has been engaged in any building or other construction work for not less than 90 days during the preceding twelve months is required to be registered as a beneficiary under this Act.
- m) This will be applicable from the date of receipt of notice from the State Labour Commissioner/ Labour Department.
- n) The tenderer/contractor for carrying out any construction work in concern State must get themselves registered from the Registering Officer under Section-7 of the Building and Other Construction Workers Act, 1996 and rules made thereto by the concern State Government and submit certificate of Registration issued from the Registering Officer of the concern State Government (Labour Department). For enactment of this Act, the tenderer shall be required to pay cess @ 1% of cost of construction work to be deducted

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from each bill. Cost of material shall be outside the purview of cess, when supplied under a separate schedule item.

- o) Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act in terms of clause 54 and 55 of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website [www.shramik kalyan.indianrailways.gov.in](http://www.shramik kalyan.indianrailways.gov.in). Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in the public domain. The Registration/updating of Portal shall be done as under:
- p) Contractor shall apply for onetime registration of his company/firm etc. in the Shramik-kalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration in the portal within 7 days of receipt of such request.
- q) Contractor once approved by any Engineer, can create a password with login ID (PAN No.) for subsequent use of the portal for all LoAs issued in his favour.
- r) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LoA) / Contract Agreements on shramik-kalyan portal within 15 days of issue of any LoA for approval of the concerned engineer. Engineer shall update (if required) and approve the details of LoA filled by the contractor within 7 days of receipt of such request.
- s) After approval of LoA by Engineer, contractor shall fill the salient details of contract labourers engaged in the contract and ensure updating of each wage payment to them on shramik kalyan portal on monthly basis.
- t) It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period.
- u) While processing payment of any 'On Account bill' or 'Final bill' or release of 'Advances' or 'Performance Guarantee / Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labourers engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at '[www.shramikkalyan.indianrailways.gov.in](http://www.shramikkalyan.indianrailways.gov.in)' till \_\_\_\_ Month, \_\_\_\_ Year."

### 30.0 BONDED LABOUR Act:

The tenderer shall note that the bonded labour system is completely done away with on the Indian Railways including contractor's establishment on the Railway.

### 31.0 INSURANCE & EPF (Employees Provident Fund):

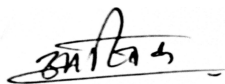
The Contractor shall purchase "All Risk Insurance Policy" of "Man and materials including machinery" with beneficiary as WR. The "All Risk Insurance Policy" shall be operative from the Date of commencement of work for the duration i.e. "Period of Completion of Work"

### 32.0 MOBILISATION ADVANCE: Mobilization Advance is applicable as per Para 46.(4) of GCC. (For tender value more than 20 Cr.)

### 33.0 ASPECT OF VITIATION:

The contract shall not be vitiated by any inadvertent error of any kind in the surveys, information, specification drawing or schedule of quantities. The aspect of vitiation of tender with respect to variation in quantities should be checked and avoided. As a result of variations, a contract shall be considered "vitiated" only when, the following percentage variation in contract value between tenderers are noticed to have been exceeded.

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S N	Value of Contract	Percentage difference between present Contractor and new L-1 as a result of variation. (percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor)
1	Small value contracts (Tender Value less than Rs 50 lakh)	10
2	Other than small value contracts (Tender Value equal to or more Rs 50 lakh)	5

33.1

When the percentage difference between present Contractor and new L-1 is noticed as becoming beyond the values specified above, the following action shall be taken.

The Railway administration should immediately examine whether it is practicable to bring in a new agency to carry out the extra quantity of work keeping in view the progress of the work in accordance with the original contract and the nature and lay-out of the work. If it is found that there will be no serious practical difficulty in meeting the additional quantity of work done by another agency, then fresh tenders for the extra quantity may be invited, otherwise negotiating the rate with the existing contractor for arriving at a reasonable rate for the additional quantities of work, may be adopted.

The above shall be regulated as under:

- The case shall be decided by the tender accepting authority (competent for the revised quantity) and shall not be treated as a case of single tender.
- These instructions will be similarly applicable to earning contracts with H-1, H-2 substituted for L-1, L-2 and so on.
- Executives while executing the work shall make all efforts to ensure that no vitiation takes place in normal circumstances. Vitiations should be an exception rather than a routine affair. Efforts should be made to invite bids on the basis of percentage above/below/at par.
- Vitiation should always be computed with respect to the items, rates, quantities and conditions as available at the time of Tender Opening and subsequent changes/ additions by way of new items will not be counted for computing Vitiations. [Ref: RB letter No. 2017/Trans/01/Policy Dated 08.02.2018].

#### 34.0 PRICE VARIATION CLAUSE: (not applicable)

34.1 The Price quoted by the contractor and accepted by the Railway shall hold good till the completion of the work. The tenderer should quote a firm price without any price variation.

Price Variation is not applicable in this tender, even in the extended period.

Price quoted by the Tenderer shall be firm during the bidder's performance of the contract and not subject to variation on any account. Any bid submitted with an adjustable price quotation will be treated as Non-responsive and rejected.

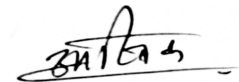
#### 35.0 SECURITY DEPOSIT:

[Also refer to Para 16 of GCC Part -II]

- The Security Deposit shall be returned to the contractor after successful completion of the work as certified by the competent authority and 1-year Warranty Period.
- The competent authority shall normally be the authority that is competent to sign the contract. If this competent authority is of the rank lower than JA grade, then a JA grade officer (concerned with the work) should issue the certificate.
- The certificate, inter alia, should mention that the work contract has been satisfactorily completed in all respects and maintenance period or guarantee period or warranty period, if any, is completed satisfactorily

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- and no dues are to be paid / recovered from the contractor and final bill has been passed and no Audit Objection / Vigilance / CBI / SPE / Arbitration case is pending against the contract. And that all the contractual obligations have been fulfilled by the contractor to Railways against the contract concerned.
4. Before releasing the Security Deposit and unconditional and unequivocal "No claim certificate" from the contractor concerned should be obtained. Railway shall not be liable to pay any kind of interest for the Bid Security and Security Deposit.

### 36.0 PERFORMANCE OF CONTRACTOR:

Performance of the contractor will be judged in respect of the following items each carrying 1(one) mark for satisfactory performance and 0(zero) mark for unsatisfactory performance.

- i) Deployment of skilled and unskilled persons before Non Interlocking period. Where applicable.
- ii) Deployment of skilled and unskilled persons during Non-Interlocking period. Where applicable.
- iii) Deployment of supervisors.
- iv) Quality of work.
- v) Timely completion of the work.
- vi) Timely supply of critical items.
- vii) Timely compliance of deficiencies pointed out in joint inspection with open lines.
- viii) Timely submission of completion drawings.
- ix) Correctness of circuit diagrams and installations.
- x) Promptness in correspondence and Joint meeting called.

### 37.0 ARBITRATION:

Arbitration and settlement of disputes shall be governed vide clause No. 63,64.1 to 64.7 of General Conditions of Contract 2022 with latest amendments subject to any corrections made prior to the opening of this tender.

### 38.0 JURISDICTION OF COURT:

The courts of the place from where the acceptance of tender has been issued shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

The successful tenderer(s) shall have to sign the contract agreement only at the office from where the acceptance letter has been issued.

### 39.0 LAWS GOVERNING THE CONTRACT:

This contract shall be governed by the Laws of India for the time being in force. Irrespective of place of working, the place of performance or place of payment under the contract, the contract shall be deemed to have been made at the place from which the acceptance of the tender has been issued.

### 40.0 ANNUAL MAINTENANCE CONTRACT: Not Applicable

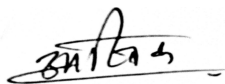
### 41.0 SPECIAL CLAUSE:

Subject as otherwise provided in this contract all notice to be given on behalf of the President of India and all other action to be taken on his behalf may be given or taken on his behalf by the Sr. DSTE/ Co./ADI Railway.

### 42.0 PENALTY CLAUSE:

If in the opinion of Engineer-in-Charge,  
The contractor is not able to follow or execute or comply any instructions by Engineer or Engineer-in-Charge or any of his nominated representative at site, intimated to the contractor or his authorized representative from time to time through letter or email or telephone or through any other mode of communication, within seven days from intimation of such instruction, OR  
If progress of the work being executed by the Contractor is not satisfactory.

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Penalty may be imposed on the contractor and recovered from running bills at the following rate:

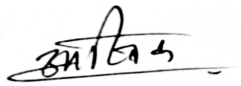
- a. In case of first instance, Penalty of Rs. 500/- (Five hundred) per day will be imposed on the contractor after seven days from intimation of instruction till complete execution or compliance of the same.
- b. In case of second instance, Penalty of Rs. 1000/- (One Thousand) per day will be imposed on the contractor after seven days from intimation of instruction till complete execution or compliance of the same.
- c. In case of third or more instances, Penalty as may be deemed fit by Engineer or Engineer-in-Charge, will be imposed on the contractor.
- d. Imposition of any Penalty amount shall be intimated to the contractor and recovered from running bills.

**43.0 LETTER OF CREDIT :**

The option of payment through LC has been enabled for all tenders whose value is equal to or greater than Rs.10 Lacs. Hence Letter of Credit is applicable in this Tender which can be availed as per board's letter no. 2018/CE-I/CT/9 dated 04.06.2018.

**44.0 Offloading of Works:** For Offloading of Work please refer to 40A of GCC 2022 (along With all correction slips).

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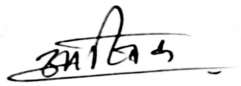
**Chapter –IV**  
**GENERAL CONDITIONS OF CONTRACT**

**General Condition of Contract Issued by Railway Board (Not included, may be downloaded from Railway Website)**

“General Conditions of Contract” (GCC) of Western Railway in addition to and/or in part super-session up to latest correction slips” will be applicable.

Booklet of General Conditions of Contract (GCC) Works Hand Book April-2022 edition/latest edition **(with latest amendments)**, may be purchased by Tenderer(s) from Engineering Department of Western Railway at their own cost.

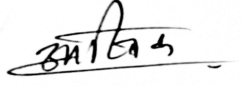
Tenderer's Signature  
Date

  
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**SECTION – II****Important circulars, Appendix & Annexures.**

<b>S N</b>	<b>Description</b>	<b>No/Link</b>
<b>1</b>	GCC with correction slips	<a href="https://indianrailways.gov.in/railwayboard/view_section.jsp?lang=0&amp;id=0,1,304,366,526,2624">https://indianrailways.gov.in/railwayboard/view_section.jsp?lang=0&amp;id=0,1,304,366,526,2624</a>
<b>2</b>	Appendix 1&2 and the Annexures	Attachments2

Tenderer's Signature  
Date

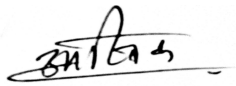
  
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**SECTION - III**

**SCHEDULE OF WORKS**

GIVEN ON IREPS WEBSITE AT DESIGNATED PLACE IN CONNECTION WITH THE ABOVE TENDER NOTICE AND TENDER NO.

Tenderer's Signature  
Date

  
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## Section IV

## Technical Specification

**TECHNICAL REQUIREMENTS & SPECIFICATIONS FOR SIGNALING AND TELECOM ITEMS****(Work are to be executed as per the latest work policy of 03/2024 dated 15.04.2024)**

All information available in this section is for general understanding. Railways have tried to give complete information but some vital Parameters may not be available in below furnished information. Bidders are required to survey the site, visit the office to understand requirements of the project. All information provided in this section shall be cross verified from site before taking final decision by Bidder on any technical & operational matters related to Bid.

**TECHNICAL REQUIREMENTS & SPECIFICATIONS****TECHNICAL SPECIFICATIONS AND REQUIREMENT OF SCHEDULE -A (SUPPLY)**

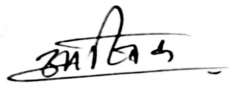
Item No.	<u>Description</u>																										
1	<b>24 Port manageable switch</b> 24 Port manageable switch 10/100/1000 base T with four or more 1000 base x Layer 2 switch with 4 nos SFP ( 4 nos 1000 LX (Fiber up link) complete with SFP trans receiver module including/loaded) PoE Port approximate 260 watt). Network Switch – 24 port POE Layer-2 Switch with 4 no SFP module,. make HP, Zyxel, 3Com, Cisco, Nortel or Extreme or same make higher version.24 port Layer 2 Switches shall be PoE (Power over Ethernet) switch as per IEEE802.3af/ IEEE802.3at.																										
2	<b>8-Port with 2 port SFP Networking Switch</b> 8 port (manageable) with 2 No. 1000 baseX SM SFP port with optical module and 8 No. Ethernet port Layer 2 POE switch with SFP module or latest Make D-Link/ Netgear or Similar.																										
3	<b>HDMI cable 3 meter</b> <table border="1"> <tr><th colspan="2">GENERAL DESCRIPTION:-</th></tr> <tr> <td>Description</td><td>HDMI cable transferring both high definition audio and video over a single cable</td></tr> <tr> <td>Recommended for</td><td>Desktop Computer, Laptop, Multi Media Projector, HDTV, HD Monitor, Blu-ray Player</td></tr> <tr> <td>Standard length of HDMI Cable (in metre)</td><td>3</td></tr> <tr> <td>HDMI cable connector type</td><td>HDMI (19 Pin) Male to Male</td></tr> <tr><th colspan="2">CONSTRUCTION:-</th></tr> <tr> <td>Resolution support</td><td>Up to 4K</td></tr> <tr> <td>Conductor Material</td><td>Copper</td></tr> <tr> <td>Conductor gauge</td><td>28 AWG</td></tr> <tr> <td>Cable Shield Type</td><td>Aluminum Foil</td></tr> <tr> <td>Cable Jacket Type</td><td>PVC</td></tr> <tr> <td>Connector plating</td><td>Gold Plated</td></tr> <tr> <td>Cable color</td><td>Black</td></tr> </table>	GENERAL DESCRIPTION:-		Description	HDMI cable transferring both high definition audio and video over a single cable	Recommended for	Desktop Computer, Laptop, Multi Media Projector, HDTV, HD Monitor, Blu-ray Player	Standard length of HDMI Cable (in metre)	3	HDMI cable connector type	HDMI (19 Pin) Male to Male	CONSTRUCTION:-		Resolution support	Up to 4K	Conductor Material	Copper	Conductor gauge	28 AWG	Cable Shield Type	Aluminum Foil	Cable Jacket Type	PVC	Connector plating	Gold Plated	Cable color	Black
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4	<b>HDMI cable 10 meter</b> <table border="1"> <tr><th colspan="2">GENERAL DESCRIPTION:-</th></tr> <tr> <td>Description</td><td>HDMI cable transferring both high definition audio and video over a single cable.</td></tr> <tr> <td>Recommended for</td><td>Desktop Computer, Laptop, Multi Media Projector, HDTV, HD Monitor, Blu-ray Player.</td></tr> <tr> <td>Standard length of HDMI Cable (in metre)</td><td>10</td></tr> <tr> <td>HDMI cable connector type</td><td>HDMI (19 Pin) Male to Male</td></tr> <tr><th colspan="2">CONSTRUCTION:-</th></tr> <tr> <td>Resolution support</td><td>Up to 4K</td></tr> </table>	GENERAL DESCRIPTION:-		Description	HDMI cable transferring both high definition audio and video over a single cable.	Recommended for	Desktop Computer, Laptop, Multi Media Projector, HDTV, HD Monitor, Blu-ray Player.	Standard length of HDMI Cable (in metre)	10	HDMI cable connector type	HDMI (19 Pin) Male to Male	CONSTRUCTION:-		Resolution support	Up to 4K												
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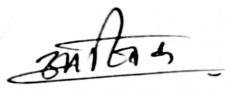
	<b>Conductor Material</b>		Copper
	<b>Conductor gauge</b>		28 AWG
	<b>Cable Shield Type</b>		Aluminum Foil
	<b>Cable Jacket Type</b>		PVC
	<b>Connector plating</b>		Gold Plated
	<b>Cable color</b>		Black
5	<b>HDMI splitter 8 Port</b>		
	<ul style="list-style-type: none"><li>•4K 1x8 HDMI Splitter to connect a single HDMI source to up to eight displays, supporting high resolutions up to 4K@30Hz. compatible with a wide range of devices and features plug-and-play functionality, for presentation.</li><li>•It should support advanced audio formats for immersive sound,</li><li>• Effortlessly connect 1 source to 8 displays</li><li>• No software needed</li></ul>		
6	<b>Three Core flexible Power Cable</b>		
	PVC insulated flexible 3 core power cables provided for each of the display boards shall conform to specification no. IS:694:1990 reaffirmed 1995 or latest and shall have sufficient cross sectional area of 2.5 sq. mm (minimum) copper conductor with insulation thickness 0.7mm, sheath thickness of 1.0 mm and overall diameter 11mm to withstand power load of the display board make:-Cable should be of Havells, Torrent, Gloster, Bharat cables, Avocab, Polycab, Finolex or, Anchor make's only.		
7	<b>Portable Work station</b>		
	Portable Work Station for data input and configuration with necessary software/program/Accessories, Simulation and functional testing, diagnostics and trouble shooting. Configuration:-HP or Lenovo or Asus or Dell or sony or similar make. The higher version of the systems may be accepted with the approval of Engineer-in-charge.		
	a	Processor	: Intel ® Core™ i9-8500U or latest with Intel®
	b	Processor family	: 13 <sup>th</sup> Generation Intel ® Core™i9 processor
	c	Graphics	: NVIDIA® GeForce® MX130(2GB DDR5 dedicated)
	d	Memo	: 16GB DDR5 or latest RAM Expandable to 32GB.
	e	Hard Disk	: 1TB SSD 5400rpm SATA.
	f	Monitor	: 26” LED
	g	Keyboard	: Wireless keyboard.
	h	Mouse	: Optical Mouse.
	i	Ports	: USB Ports, HDMI Port, Type-C port, 1AC power, RJ-45, Headphone/microphone combo, Memory Card.
	j	DVD ROM	: 16X DVD Super multi drive.
	k	Operating	: Windows 11 or latest
	l	Net Working facility	: 10/100/1000 on board integrated N/w port, Hybrid TV tuner card, 6 in one card reader, etc.
	m	Warranty	: 36 months.
	n	Software	: MS Office Latest, Antivirus for Three years.
	o	Printer	: HP make Laser Colour Printer, Fax & Scanner along with 3 Sets(Black & Colours) of Spare toner besides supplied with printer. (Model to be approved by Engineer-In-Charge)
	p	Hard Disk Drive	: 2.5” Portable HDD having capacity 1 TB or Higher with USB 3.0I/F and back up S/W
8	<b>WI-FI USB ADAPTER FOR PC MAKE TP LINK</b>		
	Technical Specification Mini Wireless USB Adapter		
	Mini Wireless USB Adapter Make -Netgear/ CISCO/ D-LINK / ZYXEL/ CISCO or same make higher version.		
	I	Key Features	Reliable and compatible; Easy setup.
9	<b>Wi-fi base unit</b>		
	Type of Router		WAN

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	<b>No of Gigabit Ethernet (10/100/1000 Base-T ) Interface Ports</b>		4																				
	<b>Number of Gigabit Ethernet (10/100/1000 Base-T ) LAN Ports</b>		1																				
	<b>Ethernet LAN PORT</b>		Non PoE, WPA2-PSK (Security protocol)																				
	<div><div></div><div><b>IPv6 Ready3 IPv6: OSPF v3 and static routers ipv6 Routing IPv6 Multicast IPv6 QoS IPv6 VPN over MPLS</b></div><div>Yes</div></div>																						
	<div><div></div><div><b>On Site OEM Warranty (Year)</b></div><div>1</div></div>																						
10	<b>RCT (Remote Craft Terminal)</b> <b>MAKE :Asus, Dell, Lenovo or other Reputed Brand</b> <b>Processor:</b> 13th gen i7 speed upto 4.6Ghz or Better <b>RAM :</b> 8 GB or more DDR5 system memory, upgradable to 32 <b>Display :</b> 15.6" Full HD 1920 x 1080 LED-backlit TFT LCD display with IPS (In-Plane Switching) technology <b>Graphics :</b> 4 GB or more of dedicated GDDR6 <b>Storage :</b> 1TB SSD, PCIe Gen4, 16 Gb/s, NVMe ( Upgradable Upto 2*1 TB SSD) <b>OS :</b> Windows 11 Home 64-bit with <b>Preinstalled office 365</b> <b>Ports:</b> 1 x USB 3.2 Gen 1 port with power-off charging, 1 x USB 3.2 Gen 1 port, 1 x USB Type-C port (Thunderbolt) <b>Features:</b> Backlit keyboard <b>Warranty:</b> 3 years or more.																						
11	<b>75" TV</b> <table><tr><th colspan="2">SPECIFICATION</th></tr><tr><td>Type/Category/Class of TV set</td><td><b>Make: Samsung, Sony, LG or other Reputed Brand .Smart TV</b></td></tr><tr><td>Display Type/Technology</td><td>LED (Light Emitting Diode)</td></tr><tr><td>Nominal Screen Size Range(Inches)</td><td>More than70inch -upto80 inch</td></tr><tr><td>Color</td><td>Black</td></tr><tr><td>Audio Power (minimum)</td><td>10W x 2</td></tr><tr><td>Maximum Resolution (Pixels)supported</td><td>4K Ultra HD(UHD):3840x2160</td></tr><tr><td>Operating System</td><td>Android</td></tr><tr><td>Salient Features</td><td>Inbuilt Speakers, Table mount (Legs)</td></tr><tr><td>Optional Features</td><td>HDR(High Dynamic Range), Screen Mirroring, Built-in Wi-fi, Bluetooth, LAN</td></tr></table>			SPECIFICATION		Type/Category/Class of TV set	<b>Make: Samsung, Sony, LG or other Reputed Brand .Smart TV</b>	Display Type/Technology	LED (Light Emitting Diode)	Nominal Screen Size Range(Inches)	More than70inch -upto80 inch	Color	Black	Audio Power (minimum)	10W x 2	Maximum Resolution (Pixels)supported	4K Ultra HD(UHD):3840x2160	Operating System	Android	Salient Features	Inbuilt Speakers, Table mount (Legs)	Optional Features	HDR(High Dynamic Range), Screen Mirroring, Built-in Wi-fi, Bluetooth, LAN
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	<b>POWER</b>	
	Input Power Rated Voltage	230 (+-10%), 50Hz
	<b>RF Input &amp; Connectivity Ports</b>	
	Input Port	RF Input, Composite Input, 3-HDMI Port, 2-USB Port, 1-Ethernet Port
	Output Port	AUDIO OUTPUT
	RF Tuner Band	UHF & VHF
	<b>Accessories</b>	
	Accessories (included in the scope of supply)	Remote Control, wall mount Stand
<b>12</b>	<b>10TB Surveillance Hard Disk</b>	
	<b>SPECIFICATION</b>	
	Type	Internal
	Form Factor	3.5
	Capacity (TB)	10 terabyte
	Cameras Supported	64
	Interface	SATA 6 Gb/s
	OS Supported	Windows
	NVR- Ready	Yes
	Bay Count Support	64
	Cache (MB)	256
<b>13</b>	<b>Maintenance free earth electrode</b>	
	Maintenance free earth as per RDSO Specs. No. RDSO /SPN/197/2008 or latest location decided by consignee In-Charge (make JMV LPS Ltd Noida Or Pragati Electrocom P. Ltd. Gurgaon or RDSO approved firm).	
	> Earth Electrode clause No .8.1	
	> Earth enhancement material clause No .8.2	
	> Back filling compound clause No .8.3	
	Materials & dimension of bonding component for connecting the equipment clause No .8.5.4 as under: DRG attached	
	<b>Component/Bonding</b>	<b>Material</b>
	Component/Bonding Material	Copper
	Size Main equipotential earth bus bar (MEEB)	300X25X6 mm (min.)
	Sub equipotential earth bus bar(SEEb)	Copper
	Individual equipment to SEEb using copper lugs with stainless steel nut and bolts.	150X25X6 mm (min.)
	SEEb to MEEB using copper lugs with stainless steel nut and bolts.	Multi-strand single core PVC insulated copper cable as per IS:694
	Surge protection devices (SPD) to MEEB using copper lugs to MEEB using copper lugs with stainless steel nut and bolts.	10 sq.mm
	MEEB to main earth electrode	Multi-strand single core PVC insulated copper cable as per IS:694
	Main earth pit to other earth pit in case of loop earth	16 sq.mm
<b>14</b>	<b>Earth Chamber.</b>	
	RCC Earth Chamber for Earthing as per Site requirement.	
<b>15</b>	<b>Optical Fiber cable 6 cores armoured</b>	
	OFC single mode 6 core Fiber Armored Cable make D-Link or similar, as per technical specifications:	
	<b>Characteristic</b>	Min. Required Specification
	<b>GENERAL:</b>	The 6/12 core armoured fiber cable type is a Matched Cladding Single Mode

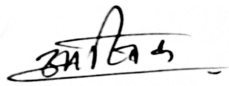
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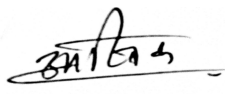
		Fibre dual coated with acryl ate coating.
		The fibre is optimized for operation at 1310 nm and at 1550 nm.
		Should fulfill the requirements of:
		· IEC 60793-1/60794-1-2
		· ISO 11801
		· ITU-T REC G.652.D
	GEOMETRICAL PROPERTIES:	Nominal mode field diameter: 9.2 μm
		Mode field diameter tolerance: ±4%
		Cladding diameter: 125 μm
		Cladding diameter tolerance : ±1 μm
		Mode field concentricity error : < 1 μm
		Cladding non-circularity: < 2 %
	MATERIALS	Germanium doped core with no phosphorus i.e. reduced tendency for hydrogen degradation.: CORE
		UV-curable dual layer acryl ate coating, which ensures excellent micro bending and abrasion resistance.: COATING
		Stripping force after conditioning at 23± 5 °C at 40 - 60 % RH for 24 h.
	OPTICAL PROPERTIES	Attenuation (of cable with fibres)
		At 1310 nm: <= 0.36 dB/km
		In the range 1285-1330 nm: <= 0.40dB/km
		At 1550 nm: <= 0.22 dB/km
		Cut-off wavelength lc:
		High limit: 1330 nm
		Low limit : 1180 nm
		Cut-off wavelength lcc
		High limit: 1260 nm
		Loss increase at 1550 nm for 100 turns of fibre loosely wound with a 37.5 mm radius:
		Max. : 0.1 dB
		In homogeneity of OTDR trace for any two 1000 meter fibre lengths
		Max.: 0.1 dB/km
		Proof test level : 1%
	16	HDPE duct 25mm
	25 mm dia HDPE duct with all fitting and laying accessories make Dolphin, Duraline or Aaram plastics with permanent lubrication/PLB lubrication as per technical specifications. 25 mm dia. HDPE pipe with accessories on wall or structure / in trench etc. For drawing of CAT-6/OFC cable/ power cable in the same to suit All materials for jointing, fixing, clamping of HDPE pipe, cutting of masonry wall at the entry of room, repairing of masonry wall. Cement plastering at per site requirement are to be supplied by contractor. (TEC spec. No. G/CDS-08/02, Nov'04 or latest).	
17	<b>Connectors/Pig Tail/Patch cords/ MC/ LIU/Patch Panels/Switch:</b> S Supply of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch etc. with all required necessary accessories (6+6 fiber) for termination/ splicing of OFC cable/patch cord/pig tail cable make Molex/ D-link /AMP/ Systemax / Plexonics/ 3 M/ R&M /Comms Cope. • Port Fiber Optic Patch Panel high intensified & insulated material, having excellent mechanic Performance.	

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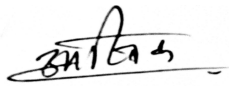
	<b>FIBER PATCH PANELS – RACK MOUNT – 12 port LIU Loaded Single mode</b>													
<b>C Characteristic</b>	<b>Min. Required Specification</b>													
	12 port Loaded LIU accommodate LC Single mode adapters.													
	Cold steel base material with powder coating. Aluminum top and front cover for light mounting													
	can manage both splices and terminations													
	should have fiber magic sticker provision inside for 900um tight buffered fiber storing													
	Accessory kit consists of cable ties, mounting ear screw earthing.													
	Front-Mounted Cable Saddles for jumper management													
	Removable Top & Front cover for better access to interior of LIU													
	Rubber grommet allow for pre-terminated fiber trunk installation, protects cable and minimizes dust build-up													
	Adapter panel - Cold steel													
	Adapters should have compact design & high precision.													
	which perform well under various circumstances & maintain good plug Retention strength.													
<b>18</b>	<b>RJ-45 Connectors</b>													
	RJ-45 connectors of socket Computer Socket Make: Anchor, Roma Plus, Leader, Havells, Legrand or Crabtree.													
<b>19</b>	<b>STP CAT-6 cable</b>													
	STP (Shielded Twisted Pair) CAT-6 cable should be of 4 pair of 23 AWG solid bare copper (diameter 0.226 mm) with polyethylene Insulation and PVC Jacket and Make D-Link or Similar. Make with identification mark /ferrules etc.													
<b>20</b>	<b>PVC Pipe 25 mm dia</b>													
	Rigid PVC Conduits pipe having Outer dia. 25 mm & Thickness 1.6mm with ISI Mark (IS:9537 Part-3) type medium and one end socket ended duly drawing power / Telecom cable as per instruction of site, including all accessories (color iveroy& gray band,T& L Joint etc.).													
<b>21</b>	<b>19" 15U rack</b>													
	Salient Features A Uni-Bolt arrangement system Provides ON Site QUICK Assembly Deskilled solution													
	<b>Mechanical</b> Safe to Handle, Does not have any pinch point/sharp edge which may cause serious injury during handling or fitment, Full-depth mounting variations, Adequate factor of safety and built-in fail-safe features													
	<b>Cabling</b> Facilitates top & Bottom Cable Entry, Adequate leeway for cable routing inside the enclosure Extra storage space for surplus cable windings, Provision for cable ties and cable clips inside enclosure													
	<b>Technical Characteristics.</b>													
	<table><tr><th>S No.</th><th>Manufacturing process</th><th>Compliance</th></tr><tr><td>1</td><td>ISO 9000 /14000 / ROHS compliance</td><td>ISO 9000 /14000 / ROHS</td></tr><tr><td>2</td><td>Raw Material</td><td>Cold Rolled Sheet Steel, Glass, Synthetic Rubber (Knockout Edge Protector/Cover), Epoxy Hybrid Powder, Hardware</td></tr><tr><td>3</td><td>Process and Chemical details (</td><td>ISO and RoHS Certificates for Purchased Items</td></tr></table>	S No.	Manufacturing process	Compliance	1	ISO 9000 /14000 / ROHS compliance	ISO 9000 /14000 / ROHS	2	Raw Material	Cold Rolled Sheet Steel, Glass, Synthetic Rubber (Knockout Edge Protector/Cover), Epoxy Hybrid Powder, Hardware	3	Process and Chemical details (	ISO and RoHS Certificates for Purchased Items	
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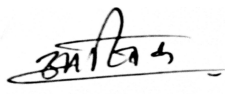
		Eco friendly Parameters)	
4	Width(W)	600mm	
5	Depth(D)	500mm	
Enclosures should be made of High Quality 0.8/1.5 mm CRCA Sheets and can be easily assembled at the user site. Necessary accessories for the complete installation of the Enclosures form part of the total system.19” 15U rack with Accessories having Cable Manager, Cantilever Tray Cooling Fan, Power Distribution Unit (PDU),Mounting Hardware, Rear cover etc. It shall be of TRYNOX , Tripplipe, Startech, Valrack, Rittal or APW President make.			
22	Online UPS 1 KVA		
1 KVA on line UPS system (single phase input & single-phase output) with MF battery approximate 60 min. battery backup, 12 volts MF VRLA Batteries Exide, Amaron, Southern battery & Celtek (Battery inter connecting cabinet & suitable battery stand) Make Online 1 KVA UPS Microtek, APC or Tata libert or Higher version.			
Output power capacity		800Watts / 1.0KVA	
Max Configurable Power (Watts)		800Watts / 1.0KVA	
N Nominal Output Voltage		230V	
O Output Voltage Note		Configurable for 220 : 230 or 240 nominal output voltage	
E Efficiency at Full Load		88.00%	
Output Voltage Distortion		Less than 2%	
Output Frequency (sync to mains)		50/60Hz +/- 3 Hz	
Load Crest Factor		03:01	
T Topology		Double Conversion Online	
23	Computer table		
<u>Specifications</u>			
Type of Computer Table (Hint: "Unit indicates additional drawers, storage units/compartments, etc) :Computer table with additional unit			
Material Type of Table Top: MDF Board			
Side of Lamination in Table Top: Single (Top Side)			
Type of Material of Lamination in Table Top: Laminate			
Length of Table Top (in mm) (Tolerance +/- 10 mm): 1050			
Width of Table Top (in mm) (Tolerance +/- 10 mm): 450			
Thickness of Table Top (in mm) (Tolerance ±5 mm): 25			
Shape of Table Top Edge: Straight			
Color Family of Table Top: Natural (inherent color of processed material)			
Material Type of Table Under structure: Wooden/Engineer Wood Understructure			
Material of Table Under structure: MDF Board			
Availability of modesty panel: Yes			
Material Type of Modesty Panel: Wooden/Engineer Wood			
Material of Modesty Panel: MDF Board			
24	Revolving Chair		
	Revolving Chair with arms and backup foam cushion with tapestry cocer, Ms type frame cushion are Godrej foam or similar, MS base central titill back push hydraulic system.		
25	Face /Finger/Card Based Machine attendance system for access real time attendance		

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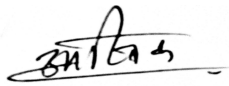
Face, Card, PIN and BLE based Door Controller			Compliance (Y/N)
	Parameters	Technical Details	
GENERAL	Credential Support	Face, EM Proximity Card, QR code, PIN and Bluetooth	
DISPLAY	Display	3.5" IPS Display with Capacitive Touch Panel with Gorilla Glass	
	Display Resolution	480 x 320 Pixel	
CAPACITY	Max. User	50,000	
	Face Template Storage	2,00,000	
	Max. Face Template per User	30	
	Events Logs	5,00,000	
	Access Modes	Face; Card; PIN+Face; Card+Face; Card+PIN	
	Face Identification	1:200,000 in < 1 sec 1:1 in < 0.5 sec	
	Fake Face Detection	Yes	
	Algorithm	Deep Learning based Face Recognition	
	Minimum Lightning condition	Mimum 30 Lux required on User's face	
COMMUNICATION	Ethernet	Yes (10/100 Mbps - 1 port)	
	PoE	Yes (IEEE 802.3 af)	
	Wi-Fi	Yes (802.11 b/g/n)	
	Bluetooth	Yes (8m Range)	
	3G/4G/LTE	Yes (Additional USB Modem)	
	USB	Yes (Micro USB-Type B)	
AUDIO-VISUAL	User Photo Display	Yes	
	Buzzer	Yes	
Hardware	OS	Embedded LINUX	
	CPU	Quad Core ARM Cortex-A7 @ 1.5 GHz	
	GPU	Built-in 2 TOPS Neural Network Computing Performance	
	Flash Memory	16 GB eMMC	
	RAM Memory	2 GB DDR4	
	Built In Memory	Built in 16 Gb eMMC provided	
	Power	12 VDC @ 2A	
	Tamper Detection	Yes	
	Mounting Options	Wall Mount & Flush Mount	
	Dimensions(HxWxD)	186mm x 74 mm x 50mm	
	Weight	650gms (1.433 lbs)	
	Gorilla Glass	Yes (Gorilla Glass 3)	
Camera	RGB Camera	2MP Surveillance Grade, IR Blocked	
	Infrared Camera	2MP Surveillance Grade, IR Band Pass	
	Camera Sensors	SONY IMX 307, EXMOR Technology, STARVIS Series	
Interface	Exit Switch Interface	Yes	
	External Reader	Interface(RS232, Wiegand) Power (12VDC @ 0.5A)	

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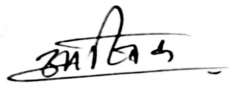
		Wiegand	Yes (Selectable IN/OUT) IN: 26 Bit format OUT: Configurable	
		Door Lock Relay	Yes (30VDC @ 2A, Dry Contacts NO/NC/COM)	
		Door Lock Power	Internal PoE Power: 12VDC @ 0.250 A Internal Adapter Power 12VDC @ 0.5 A External Power 12VDC @ 2A	
	ENVIRONMENTAL	Humidity	5% to 95% RH Non-Condensing	
		Operating Temperature	0°C to + 50°C (32°F to 122°F)	
		Storage Temperature	(-20°C to + 60°C) (-4°F to 140°F)	
	OTHERS	Operational Mode	Server mode(with or without Site Controller) with the proposed On premise/Cloud software	
		Warranty	3 Years	
		IR LEDs	Yes	
		Ingress Protection	IP65, IK06	
		Certification	CE, FCC, BIS, RoHS, UL	
26	<b>Attendance software for generate daily monthly absent present report</b>			
	<b>Specifications</b>			
	Facilitates superlative range of flexible functions such as Multiple Organizations, Late-In, Early-Out Policy, Overtime Policy, Absenteeism Policy, Multiple Holidays, Holiday Schedules, Manual Entry and corrections of Entry-Exit Events and Attendance Summary			
	Allows to create multiple branches, department, sections, designations, grades and categories			
	Offers the leave management module covering different leave type creation, organization-wise leaves, leave request and approvals, leave balance management, leave accumulation and carry forward option and leave encashment option for organized leave management			
	Sends SMS / Email alerts for various pre-defined events such as User Events, Leave Application, Leave Approval/Rejection, Monthly Attendance, and Missing In/Out Punch to multiple users automatically on the occurrence of any such events			
	Offers integration through API, database to database, and customized export template			
	Allows seamless integration with third party Payroll, HRM, Tally, SAP, ERP, Active Directory, etc.			
	Allows creating 150+ time-attendance, leave, and shifts related reports and colorful charts using various filters and formats, also offers customized reports			
	Offers generation of various statutory reports			
	Offers an option to assign a new shift automatically based on user's punch details			
	Manages 999 shifts and 999 schedules with 32 shifts per schedule			
	Manages continuous shifts as well as overnight shifts			
	Interprets User punches for entry or exit depending on attendance policy configuration			
	Monitors late-in entry and early-out exit of employees based on their shift timings			
	Allows calculating overtime on a daily, weekly, or monthly basis			
	Facilitates converting overtime hours to compensatory off hours and offer additional leave or encashment options			
	Allows creating multiple shifts and schedules with break time, grace time, off day, repeat days, etc. to manage workforce of organization			

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	<p>Allows creating 30 holiday schedule groups with 32 holidays in each group</p> <p>Facilitates corrections and manual entries of entry-exit events like attendance records, overtime/C-OFF hours, late-in/early-out timings, etc.</p> <p>Offers User-wise and Period-wise options with Late-In, Early-Out, Overtime, C-OFF and Absenteeism Policies</p> <p>Generates past adjustment data automatically and includes it into current month's salary calculations</p> <p>Offers generation of attendance summary that includes various employee data like attendance, leaves, weekly off and holidays organization-wise, department-wise and user defined period-wise</p> <p>Offers creating up to five levels of authorization for leaves and tour approval</p> <p>Facilitates defining common rules and parameters like number of duplicate punches allowed, auto shift correction, maximum late-in/early-out allowed time, password security, etc. as templates that can be applied globally to all users</p> <p>Compliance with GDPR for masking the personal information of the users enabling additional layer of security in terms of data privacy</p> <p>VAPT certified software and hardware ensuring the frequent checks for vulnerabilities and penetration testing, ensuring a secure platform with 3 Years software updation and Warranty.</p>	
<b>27</b>	<b>Industrial PC i5 desktop 13Generation server with SQL and window 11 ssd 512gb , for install attendance software.</b>	
	Industrial PC i5 desktop 13Generation server with SQL and window 11 ssd 512gb , for install attendance software with all accessories. With 3 years of Warranty.	
	Monitor	: 26" LED
	Keyboard	: Wireless keyboard.
	Mouse	: Optical Mouse.
<b>28</b>	<b>UPS</b>	
	<p>1. Capacity: 1000VA/600W WITH BIS Certified with 3 years of Warranty.</p> <p>2. Input Voltage :230V AC</p> <p>3. Voltage Range: 160 to 280 V AC</p> <p>4. Frequency: 50 Hz</p> <p>5. Output Voltage: 220-240V AC</p> <p>6. Battery: 12V, 7AH x 2</p> <p>7. Recharge Time: 4 hrs. max (Recharge to 90% Capacity)</p> <p>8. Backup Time: 60 mints. (standard PC Load + 18.5" Led Monitor)</p> <p>9. Transfer Time: Typical - 2 to 4 ms, Max 10 ms</p> <p>10. Indicator: Ac mode - Green LED light, Backup Mode - Yellow LED light, Fault Red LED Light</p> <p>11. Audible Alarm Backup Mode: Beeping Every 10 Seconds</p> <p>12. Low Battery: Beeping Every Seconds</p> <p>13. Overload: Beeping Every 0.5 Seconds</p> <p>14. Fault: Continuous beeping</p> <p>15. Connect Up to 3 Devices</p>	
<b>29</b>	<b>Device protection box for biometric machine</b>	
	Device protection box for biometric machine with 3 years of Warranty.	
<b>30</b>	<b>2 MP IP bullet camera as per RDSO/SPN/TCN/65/2021 Version 6 or latest for covering biometric system area.</b>	
	2 MP IP bullet camera as per RDSO/SPN/TCN/65/2021 Version 6 or latest for covering biometric system area .	
<b>31</b>	<b>Monitor and operating console for CCTV</b>	
	<b>Connectivity Ports</b>	
	Input Port	1- VGA Port,1- HDMI Port
	<b>Features</b>	
	Salient Features	Integrated Speakers

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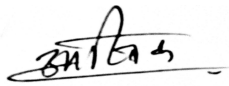
	Provision for Wall Mount		Yes
	<b>Power Supply</b>		
	Power Supply		230V AC, 50 Hz
	<b>Dimension</b>		
	Maximum Resolution (Pixels)		1920 x 1080 (Full HD)
	Screen Size (in cm)		58.1 - 63 (22.87" - 24.8")
	Image Aspect Ratio		16:9
	Warranty		3 Years
<b>32</b>	<b>4 channel NVR for recording camera</b>		
	4 Channel NVR with SATA port		
	1	Operating System	Embedded Linux
	2	Bandwidth	80MBPS
	3	Video Format	H.265
	4	Video Resolution	5MP\3MP\2MP
	5	Smart Functions	Target Count, Object Left/Lost, Electronic Fence, Line Crossing, Face Grouping List, Face Detection, Humanoid Detection, Retrograde Detection, Leave Position Detection (need front end IPC supported)
	6	Record Mode	Manual, Schedule, Motion Detection, Timing, Alarm, Stop
	7	Playback	4CH 1080P, 1CH 5MP
	8	Backup Mode	USB Device/Network
	9	Resolution	4K
	10	Supported Channel	4 Channel
	11	Video Output	1 HDMI, 1 VGA
	12	Audio Input & Output	HDMI audio
	13	HDD	4 SATA, MAX 8TB HDD
	14	Network Interface	1*RJ45 10M/100M self-adaptive LAN port
	15	Network Function	DDNS,EMAIL,UPNP,NTP,DHCP,IP Filter,PPPoE,P2P
	16	USB	2 USB Ports(2 USB2.0)
	17	Credentials	Manufacturer should be ISO 9001:2015, ISO 14001:2015, ISO 27001:2013 & CMMI Level 5 certified.
	18	Product Origin	Product should comply make in India policy.
	19	Warranty	3 Years
<b>33</b>	<b>1 TB hard disk storage for camera live viewing</b>		
	Capacity : 1TB, Interface : SATA Type : Internal HDD Type , Size : 3.5" Make Seagate,Toshiba or WD with 3 years of Warranty.		
<b>34</b>	<b>4 U Rack for mounting POE Switch and accessories</b>		
	Rack type		Wall closet
	Interior dimensions		280(H) x 543(w) x 420(D) mm
	External Dimensions		315 (H) x 600 (W) x 450 (D) mm
	Storage capacity		Up to 4U rack of 19"
	Maximum load		60 kg
	Degree of protection		IP20
	Weight		14.2 kg
	Assembly		Yes
	Warranty		3 Years

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35	<b>POE Switch 8 port for Ethernet and power Supply providing machine and camera</b>
	8 port (manageable) with 2 No. 1000 baseX SM SFP port with optical module and 8 No. Ethernet port Layer 2 POE switch with SFP module or latest Make D-Link/ Netgear or Similar with 3 years of Warranty.
36	<b>Office working Table for operating console location locations time office and WM Office</b>
	Office working Table for operating console location locations time office and WM Office as per requirement with 3 years of Warranty.
37	<b>Fiber Media Convertor Make: iBall, Dlink, Teamlink or similar</b>
	Single mode media converter with PoE at least two port with all accessories as per RDSO specification no. RDSO/SPN/TC/103/2013Rev.2 or latest Amd.Make: Zyxel, D-link ,Tp- Link, Net gear. With 3 years of Warranty.
38	<b>Office working chair for operating console locations time office and WM Office</b>
	<p><b>High Back Office Chair with Adjustable Arms Tilt Lock Mechanism</b></p> <p><b>1. Frame</b> Iron</p> <p><b>Material Subtype</b></p> <p><b>2. Upholstery</b> Mesh</p> <p><b>Material</b></p> <p><b>3. Upholstery</b> Cushion</p> <p><b>Type</b></p> <p><b>4. Chair</b> Adjustable Seat Height, Armrest</p> <p><b>Features</b></p> <p><b>Other Features</b> 1. Multi dimensional free rotation, lifting 10cm::2. SGS certification level 3, 85# electroplating gas rod::3. Dual handle multi functional chassis. Can be locked at multiple angles::4. High quality electroplating for 1.8 thick double sleeves for 32 round tubes::5. The fanny pack can be adjusted up and down for lumbar support::6. PU lifting handrail::7. Pentagonal foot bow foot optional::8. Optional headrest::Cushion : High elastic raw cotton, Armrest : PU lifting handrail</p> <p><b>5. Domestic</b> 1 Year</p> <p><b>Warranty</b></p>
39	<b>Electric power point with cable</b>
	<p><u><b>Specifications</b></u></p> <p>Shape/Classification By Function-- Rectangular/Square [Extension cord of fixed length (without re-coiling facility)]</p> <p>Current Rating of Each Socket (in Ampere)- 16 A</p> <p>Number of Socket- 3</p> <p>Type of Socket- 3 Pins Socket</p> <p>Type of Switch Control- Single Master Switch For All Sockets</p> <p>Material of Extension Box- ABS</p> <p>Minimum Length of Cable From Extension Box-- 3 Meter</p>
40	<b>Fiber Media Convertor Make: iBall, Dlink, Teamlink or similar</b>
	Single mode media converter with PoE at least two port with all accessories as per RDSO specification no. RDSO/SPN/TC/103/2013Rev.2 or latest Amd.Make: Zyxel, D-link ,Tp- Link, Netgear.

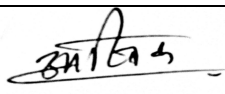
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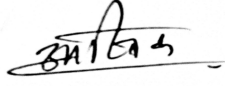
<b><u>A2- SCHEDULE</u></b>	
<b>01</b>	<b>Supply of Full HD Fixed Dome Type IP Colour Camera as per RDSO/SPN/TCN/65/2021 Version 6 or latest.</b>
	Full HD Fixed Dome Type IP Colour Camera as per RDSO/SPN/TCN/65/2021 Version 6 or latest. Centralized feed required for Camera Installed at LC gate with necessary software .
<b>02</b>	<b>Portable Work Station: (Sch A1:Item no 7)</b>
<b>03</b>	<b>75" TV: (Sch A1:Item no 11)</b>
<b>04</b>	<b>Back Box for camera</b>
	Back box for mounting the camera.
<b>05</b>	<b>Three Core flexible Power Cable: (Sch A1:Item no 6)</b>
<b>06</b>	<b>38 mm PVC casing capping</b>
	Supply and fixing of 38 mm PVC casing capping with other fixing accessories i.e. clip, bends (L& T) & coupling etc good quality as per site requirement.
<b>07</b>	<b>Offline UPS 1 KVA</b>
	1. Capacity: 1000VA/600W WITH BIS Certified 2. Input Voltage :230V AC 3. Voltage Range: 160 to 280 V AC 4. Frequency: 50 Hz 5. Output Voltage: 220-240V AC 6. Battery: 12V, 7AH x 2 7. Recharge Time: 4 hrs. max (Recharge to 90% Capacity) 8. Backup Time: 60 mints. (standard PC Load + 18.5" Led Monitor) 9. Transfer Time: Typical - 2 to 4 ms, Max 10 ms 10. Indicator: Ac mode - Green LED light, Backup Mode - Yellow LED light, Fault Red LED Light 11. Audible Alarm Backup Mode: Beeping Every 10 Seconds 12. Low Battery: Beeping Every Seconds 13. Overload: Beeping Every 0.5 Seconds 14. Fault: Continuous beeping 15. Connect Up to 3 Devices
<b>08</b>	<b>STP CAT 6: (Sch A1:Item no 19)</b>
<b>09</b>	<b>PVC Pipe 25 mm dia: (Sch A1:Item no 20)</b>
<b>10</b>	<b>6U Network Rack for Switch and UPS system</b>
	6U wall mount network rack Compliance with standards UL 2416., DIN 41494, IEC EN 60529, IEC EN 62262, IEC EN 60068-2-11, ISO 9001:2008. Front Door with Toughened Glass quality. Adjustable Mounting rails - Front and Back 1 Fan Mounting provision (Fan's -230V AC - 90 CFM, dB 42). Top and bottom cable entry provides Optimal flexibility for cable management with rubber grommets. Easy wall mount provision Frame structure with max loading capacity up to 60 kg Compatible with 19" International standards 600W x 600D (Height x Width X Depth). Earthing strip provided for achieving electrical ground. Equipment rake make Snider/APW / Valrack / Rittal.
<b>11</b>	<b>8-Port with 2 port SFP Networking Switch: (Sch A1:Item no 2)</b>
<b>12</b>	<b>Different color patch cord</b>
	Different color patch cord factory crimping make DAX or similar.
<b>13</b>	<b>Single mode LC-LC/LC-SC/SC-SC Optical patch cord</b>
	Patch cord of the following lengths with LC-FC /LC-LC connectors ac per consignee in-charge ( 3 meter lengths). It shall be of good quality and useful of above equipment and of reputed make (RNM/D-Link/Corenet/3M) Expanded beam design optimized for next generation data centers Performance supports multi-link deployment

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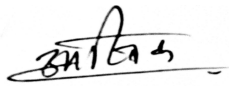
	Low insertion loss and reflectivity in both single mode and multimode Single mode (1310 nm): Insertion loss (<0.70db) Return loss (>55db) Multimode (850 nm): Insertion loss (<0.30db) Return loss (>25db)	
14	<b>RJ-45 Connector: (Sch A1:Item no 18)</b>	
15	<b>4 TB Surveillance HDD.Make</b> Seagate, Western Digital, Samsung or similar. As per site requirement.	
16	<b>Fiber Media Converter: (Sch A1:Item no 40)</b>	
17	<b>Optical Fiber cable 6 cores armoured: (Sch A1:Item no 15)</b>	
	<b><u>A3- SCHEDULE</u></b>	
1	<b>E1 BRANCHING INTERFACE CARD</b> MUX E1 BRANCHING INTERFACE CARD (WEBFIL or similar) or as per Consignee.	
2	<b>HDPE duct 25mm: (Sch A1:Item no 16)</b>	
3	<b>Maintenance free VRLA type batteries</b> Maintenance free VRLA type batteries 48Volt /200 AH capacity as per RDSO No. IRS-S- 93/96(A) with Amd. (1) or latest. One set consist of 4 modules of 12V each (i.e. 6 cells of 2V for each module) -48-volt DC) supplied in factory filled and charged condition with inter cell stack connection. copy of stack enclosed, other constituents.	
4	<b>SMPS Power Plant</b> SMPS Power Plant with FR/FC Module, 48 V, 50 amps for telecom use as per No. RDSO/SPCN. /TL/23/99 (ver. 4) Amd-I or latest in N+1 configuration i.e. using 3 modules of 25 amps with automatic switching between the modules, for one set of VRLA 200 AH battery. It shall be equipped with surge and lightening protection of class 'B' and 'C' the configuration shall be decided as per site requirement. Make Statcon, Amaraja <b>Information to be supplied by the purchaser as per RDSO clause No. 8</b>	
	Sr. No.	Description of Items Information to Vender Requirement
	1	The type of battery to be used VRLA battery
	2	For Single Phase, Incoming Power Supply range either 90V-300V or 165V-260V. (Clause 1.3 of Section 1). 165V-260V
	3	Battery capacity (Clause. 5.6.3 of Section 5) and numbers. of battery bank. 200AH (24Vx 2 = 48V)
	4	Ultimate Expandable Capacity of the Power Plant in terms of load (Clause 2.2 of Section 2). 50 Amp
	5	Type, Number& Configuration of SMR Modules (Clause. 2.2, Section 2) (2+1) SMR Module
	6	Power Plant will work on Single phase or 3 phase (Cl. 2.4.1, Section 2) Single phase
	7	Power Plant to work as Float Rectifier–cum–charger (FR-FC) Mode or Float Rectifier– cum charger– Boost Charger (FR-FC-BC) Mode. Float Rectifier– cum charger–Boost Charger (FR-FC-BC) Mode.
5	<b>Connectors/Pig Tail/Patch cords/ MC/ LIU/Patch Panels/Switch: (Sch A1:Item no 17)</b>	
6	<b>Maintenance free earth electrode: (Sch A1:Item no 13)</b>	
7	<b>RCC Earth Chamber: (Sch A1:Item no 14)</b>	
8	<b>STM-4</b> Standard 19” Rack Mountable -48V DC Working Add-Drop STM-4 SDH Equipment conforming to TEC GR No: GR/SDH-010/003. JAN 2011 (with latest amendment ) complete with, redundant power supply, 2 Nos STM 4 of Aggregate L.4.2 Optical Interface Modules/Cards one each for East and West side TX/RX and 2 nos of STM-1 S1.1 optical interface modules complete with 5 mts. long Optical Patch Cords . 21 EIs with DDFs and Cable assembly for termination to DDF and minimum 8 nos of 10/100 Base-T Ethernet Ports Fast Ethernet on SDH (EoS) 10/100 Base-T Interface Module/ Card supporting with LCAS and GFP , order wire subrack DDF installation Material, manuals and	

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	other accessories. Complete Engineering Order Wire(EOW)arrangement. Necessary Software / Firmware for local /remote monitoring / configuration of the equipment through EMS and Software / Firmware Interface to work all Network Elements as Gateway Network Element (GNE).2 Nos of MCBs of appropriate ratings and necessary Connecting cords and cables for power supply modules. Make: TEJAS-1400-7SR or similar or as per site requirement.
<b>9</b>	<b>2MB programmable primary digital drop insert multiplexer (webfil/puncom).</b>
	2MB programmable primary digital drop insert multiplexer (webfil/puncom) as per RDSO specs. IRS-TC 68/2012 Amd 1 or latest or as per site requirement.
<b>10</b>	<b>AIOPC for NMS support</b>
	Make: HP / DELL / Sony (All in One) Processor: 12th Gen Intel Core i5-10210U   Speed: 4 GHz (Base) 4.2 GHz (Max), 4 Cores   6MB Cache OS: Pre-Loaded Windows 11 Home with Lifetime Validity Pre-Installed: MS Office Home and Student 2021 Memory and Storage: 16GB DDR4 RAM   Storage: 512GB SSD Graphics: Integrated Intel UHD Graphics Display: 23.8" Full HD (1920x1080), Brightness: 250 nits, IPS Display Camera (Built in): 720p camera   Fixed Focus Audio: 2 x 3W Stereo Speakers   HD Audio Connectivity: Wi-Fi 5 (11ac, 2x2)   Bluetooth 4.0 Ports: 1 USB 3.2, 1 USB 2.0, Headphone/Mic combo jack (3.5mm), Ethernet (RJ45), HDMI-out,3-in-1 In The Box: All-in-One, Wireless Keyboard, Wireless Mouse, Power Adapter, User Manual Warranty: 3 Years Onsite Warranty The product shall be approved by Engineer in charge before supply.
<b>11</b>	<b>Steel Plain Almira</b>
	Steel Plain Almira with 4 adjustable slaves Size: 1980mm height, 915 mm width and 485 mm depth. Make: Godrej Storewel Plain Large or Similar of reputed brand will be specified or as per consignee requirement.
<b>12</b>	<b>Office Chair</b>
	Office Chair makes Godrej CH-7B or similar of reputed brand or as per consignee requirement.
<b>13</b>	<b>Office Revolving Chair Godrej</b>
	Office Revolving Chair Godrej Make Model No.9u02r Bravo Or Similar of reputed brand will be specified by Engineer in-charge.
<b>14</b>	<b>Office table with laminated top with three drawers on left hand side and one locker on the right hand side</b>
	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 or Similar of reputed brand will be specified by Engineer in-charge.
<b>15</b>	<b>Multimedia Projector Resolution 1280 X 800 WX GA</b>
	Multimedia Projector Resolution 1280 X 800 WX GA, ANSI LUMEN 3000 with Installation of Ceiling Mount kit & other fitting make - Sony/Epson/Ben Q/Dell or latest/superior. All necessary accessories required for installation will be supplied/provided by contractor.
<b>16</b>	<b>Projector Screen</b>
	Projector Screen of Size 10' x 8' motorized glass based with remote with all hanging accessories.
<b>17</b>	<b>Wooden Podium</b>
	Wooden Podium of standard dimensions with Dropdown Work Surface, cable manager etc. covered with 3M DI-NOC filmed as per designed approved by site incharge.
<b>18</b>	<b>Gooseneck PA Microphones</b>
	Gooseneck PA Microphones model Studio Master Flex 4 set 21"Gooseneck mic with stand or similar.
<b>19</b>	<b>Main Array able 12" Two way Loudspeaker System</b>
	Main Array able 12" Two way, Full range loudspeaker system model Electro-Voice EVF-1122S/126-BLK or superior with required all complete accessories for installation.
<b>20</b>	<b>Stage monitor power loudspeakers</b>
	stage monitor power loudspeakers. Model- Electro-VoiceELX112P or superior with required all complete accessories for installation.
<b>21</b>	<b>Two-in/six-out Digital sound system processor</b>
	Two-in/six-out Digital sound system processor, Model-Electro-Voice DC-one or similar with required all complete accessories for installation.

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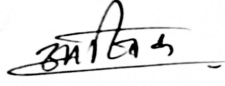
  
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22	<b>8" Two-way Loudspeaker</b> 8" Two-way Loudspeaker, Model Electro-VoiceZX1-90B or superior with required all complete accessories for installation.
23	<b>Dual channel 1800 W,Class-H power amplifier</b> Dual channel 1800 W,Class-H power amplifier, for array speakers & subwoofer. Model-Electro-Voice Q1212 230 V or superior with required all complete accessories for installation.
24	<b>Dual channel 650 W,class-AB power amplifier</b> Dual channel 650 W,class-AB power amplifier, for Front Fill speakers, Model Electro-VoiceQ44-II 230 V or superior with required all complete accessories for installation.
25	<b>16 channel audio mixer</b> 16 channel audio mixer with digital audio mixer with digital audio interface. Model- Dynacord CMS 1600-3 Mixing desk or superior with required all complete accessories for installation.
26	<b>2.0KVA UPS</b> Sine Wave output Voltage inverter of 2.0KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640 with trolley stand.

**TECHNICAL SPECIFICATIONS AND REQUIREMENT OF SCHEDULE -B**  
**(Supply & Installation)**

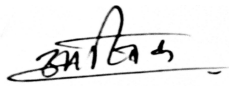
	<b><u>B1-SCHEDULE</u></b>
1	<b>8 Port POE L-2 switch (Installation)</b> Installation, testing & commissioning of 8 Port POE L-2 switch as per site Engineer.
2	<b>9U rack</b> Supply, installation & commissioning of <ul style="list-style-type: none"> <li>• Rigid frame, which can be fixed to the wall.</li> <li>• Adjustable 19" rails in the front.</li> <li>• Fixed mounting rails in the rear.</li> <li>• Top and bottom cable entry with Rubber rings and suitable gland Closure plates.</li> <li>• Front section with glass door and lock.</li> <li>• 600mm wide X 450mm deep or higher.</li> <li>• Frame &amp; side panels are made of steel and painted light gray.</li> <li>• Front door shall be of toughened tinted glass of deep grey/brown Colour.</li> <li>• Front Panel mounting hardware</li> <li>• Top and Bottom cable entry facility, Cable manager.</li> <li>• AC main channel with 6 sockets of 230V/5A(All the sockets must be Industrial quality either Leguard or Crabtree or Anchor or Zodiac) of 230V/5A shall be provided in the cabinet with on/off button and fuse with suitable capacity mains 3 core cable length 3 mtr. or as per site requirement with 5/15Amp mains plug. Equipment rack make APW / Valrack / Rittal/D-link. Installation of 9U Rack as per site Engineer.</li> </ul>
3	<b>Supply, Installation, testing and commissioning of Wi-Fi range extender</b> Wi-Fi range extender make TP link,D link or superior and installation as per site Engineer.
4	<b>Supply, installation, testing and commissioning of full HD high speed P/T/Z IP colour cameras</b> Supply, installation, testing and commissioning of full HD high speed P/T/Z IP colour cameras [Day/ Night] along with 128 GB SD Card or Higher, housing and mount, day/night configuration and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021,Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera.
5	<b>8 TB surveillance Hard disk</b>

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	8 TB surveillance Hard disk with SATA 6.0Gbps, 7200 RPM, work load rate- 300TB/year Make: Seagate, Western Digital, Samsung or similar. As per site requirement.	
6	<b>NVR 32 channels</b>	
	<b>Make :-Hikvision, Honeywell, Bosch, Palco &amp; Axis</b>	
	<b>Features</b>	<b>Description</b>
	<b>Operating System / Video channels Support</b>	Embedded Linux
		Minimum 32 channels/IP Cameras with ONVIF version 2.3 or above support with 300Mbps input bandwidth
	<b>Storage</b>	Should support 8 or more hard disk slot and each should support 4TB Hard drive.
		Should support RAID0, RAID1, RAID5, RAID10
	<b>Image and Video specification</b>	Video Input - 32×(1280*960) IP camera / IP camera /25 x 2MP / 16x 3MP/4*5MP
		Video Resolution support of 5MP/3MP /1080P/UXGA/720P
		/VGA/4CIF/DCIF/2CIF/CIF/QCIF Video resolution support - 1080P(1920×1080)fps and 960P(1280×960)30fps
		External Display resolution - 1080P (1920 ×1080) and 720P(1280×720) or better
	<b>Physical Ports</b>	Video Output - 1ch VGA and 1ch HDMI
		Audio Output - 1ch BNC/Composite output
		Network – 2 nos. of gigabit Ethernet port 10M/100M/1000M self-adaptive LAN port
		RS485 port – 1 no, USB 2.0 Port – 2nos,
		Alarm input – 4 ch, Alarm output – 4 ch
		Hard disk Slot - 8 SATA
		Each port should support 4TB SATA HDD
	<b>Recording and playback</b>	Should support schedule, motion and alarm based recording
		Should support local and network recording
		Playback of 9CH × 960P/ 8CH ×3MP/ 4CH X3MP / 4CH × 5MP
		32 channel network audio input
	<b>Alarm</b>	Should Support motion detection, Video loss, video privacy mask & tamper detection, HDD failure
	<b>Network Protocols</b>	Static IP, DHCP, PPOE, UPNP, DNS, DDNS, NTP, SMTP
	<b>Backup</b>	Should Supports data transfer via USB for easy and fast backup of data. Supports third party backup software to enable scheduled NVR-PC-NAS backup

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		Should Support USB Flash disk, USB HDD, USB DVD-RW. network storage and backup	
	<b>General</b>	Support megapixel HD network video preview, storage and playback	
		Should support Playback and backup based on event search	
	<b>User Interface</b>	Internet Explorer v6 or later	
		Multiple Language GUI	
	<b>Certifications / Regulatory compliance</b>	CE, / EN	
		The OEM should have ISO 9001:2008 and ISO 14001:2004 certificate for Manufacturing	
		OEM Should be ONVIF listed	
<b>7</b>	<b>Installation, testing &amp; commissioning of maintenance free earth electrode</b>		
	Installation, testing & commissioning of maintenance free earth electrode as per drawing.		
<b>8</b>	<b>Laying of OFC/Power cable/CAT-6/ PVC cable</b>		
	Laying of OFC/Power cable/CAT-6/ PVC cable through HDPE pipe/casing capping/fall ceiling with laying/fixing of HDPE pipe/casing capping for interfacing various components and system integration. All materials for jointing and termination of power cable as per site requirement are to be supplied by contractor.		
<b>9</b>	<b>Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch(Installation)</b>		
	Installation of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch; with necessary accessories for termination/ splicing of OFC cable, as per site Engineer.		
<b>10</b>	<b>Laying of UTP/STP CAT-6 /PVC cable</b>		
	Laying of UTP/STP CAT-6 /PVC cable through steel pipes/casing capping etc wall /floor /roof. This includes fixing and clipping of casing capping / Rosette boxes at the locations/sites as per the direction of the engineer in charge of the work with all necessary fitting materials and cutting of masonry wall at the entry of room, repairing of masonry wall, cement plastering at per site requirement, all material supplied by contractor.		
<b>11</b>	<b>15U rack (Installation)</b>		
	Installation & Wiring of 15U Rack with all installation material and restoration of wall in original condition.		
<b>12</b>	<b>10 KVA UPS with Battery</b>		
	10KVA UPS	10 KVA online UPS with SMF-VRLA batteries with backup of 1 Hour on full load with suitable rack. Inspection by Consignee Make: Microtek, APC or Tata libert or Higher version.	
	Batteries Type	Sealed Maintenance Free (SMF) - 12V Cells,VRLA,GEL	
	Battery Back UP	60 minutes on full load	
	Battery VAH	Minimum 10000 VAH with each UPS	
	Battery Make	Amaraja- Quanta/Exide or equivalent	
	Minimum Charger Rating (Including internal / external)	The charger should be able to deliver charging current equivalent to 10% of Battery Ah rating offered.(In case of external chargers, suitable monitoring of the chargers should be provided in the UPS. Also all external chargers taking AC input must have PFC - Power factor correction)	
	Charger type / Charging Method & Charging Voltages	Float Cum Boost Voltage Solid state SMPS charger	
	Charger Current	Inbuilt 6 AMP	
	Battery recharge time (After complete discharge) to 90% capacity	3 hour to 90%	

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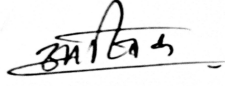
	Warranty	2 Year on UPS and Batteries																																																		
13	<b>Horizontal direction drilling/boring</b>																																																			
	Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 mm dia & 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 pipe/ GI pipes with coupling etc. as per direction of Engineer In charge. As per technical specification. Note:- Pipe will be supplied by railway. 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																																																			
14	<b>Projector cum PC</b>																																																			
	<table><tr><th>Key Features</th><th>Description</th></tr><tr><td>Digital Projection</td><td>Short throw, DLP with LED Source ,HD resolution quality projection with interactivity enabled</td></tr><tr><td>Optical Source</td><td>HighintensityRGB4LED,AutoFocus,OpticalModule</td></tr><tr><td></td><td>1500ANSILumensbrightnessthroughOverlappingTechnology</td></tr><tr><td></td><td>Minimum30,000hrs.LampLifesinceitisLED technology</td></tr><tr><td>Native Resolution</td><td>HD[1920x 1080]</td></tr><tr><td>Image Size</td><td>upto120inches(Diagonally)</td></tr><tr><td>Throw Ratio</td><td>0.8</td></tr><tr><td>Contrast Ratio</td><td>750:01:00</td></tr><tr><td>Aspect Ratio</td><td>16:09</td></tr><tr><td>Computing Unit</td><td>Inteli510thGeneration</td></tr><tr><td>RAM</td><td>16 GB</td></tr><tr><td>Operating System</td><td>Windows10</td></tr><tr><td>Storage</td><td>1TBSSDStorage</td></tr><tr><td>Camera for Video Interactivity</td><td>DualCameras,8Megapixelcamerawithwideangle visioneach</td></tr><tr><td>Audio Capabilities</td><td>20wIntegratedSpeakers-Wide-bandfrequencyresponse speaker design.</td></tr><tr><td></td><td>ChannelMicrophone-Integrated4ChannelMic(2HandMic&amp;2 Lapel Mic)</td></tr><tr><td></td><td>Microphone-High-sensitivity piezoelectric MEMS microphone that captures sound from distance of up to 10 meters</td></tr><tr><td></td><td>Bluetooth5.1&amp;Wi-Fienabled</td></tr><tr><td>Interfaces and Connectivity</td><td></td></tr><tr><td></td><td>Ethernet Port</td></tr><tr><td></td><td>4USB3.0 Ports</td></tr><tr><td></td><td>3HDMIPorts(In&amp; Out)</td></tr><tr><td></td><td>4GLTESimsupport</td></tr><tr><td></td><td>Interactive IR based Remote Controller</td></tr></table>		Key Features	Description	Digital Projection	Short throw, DLP with LED Source ,HD resolution quality projection with interactivity enabled	Optical Source	HighintensityRGB4LED,AutoFocus,OpticalModule		1500ANSILumensbrightnessthroughOverlappingTechnology		Minimum30,000hrs.LampLifesinceitisLED technology	Native Resolution	HD[1920x 1080]	Image Size	upto120inches(Diagonally)	Throw Ratio	0.8	Contrast Ratio	750:01:00	Aspect Ratio	16:09	Computing Unit	Inteli510thGeneration	RAM	16 GB	Operating System	Windows10	Storage	1TBSSDStorage	Camera for Video Interactivity	DualCameras,8Megapixelcamerawithwideangle visioneach	Audio Capabilities	20wIntegratedSpeakers-Wide-bandfrequencyresponse speaker design.		ChannelMicrophone-Integrated4ChannelMic(2HandMic&2 Lapel Mic)		Microphone-High-sensitivity piezoelectric MEMS microphone that captures sound from distance of up to 10 meters		Bluetooth5.1&Wi-Fienabled	Interfaces and Connectivity			Ethernet Port		4USB3.0 Ports		3HDMIPorts(In& Out)		4GLTESimsupport		Interactive IR based Remote Controller
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	Built-in Sensors for tracking	Keystone Correction Feature, GPS-for location monitoring, Temperature, etc.	
	Portability	Light weight(weighing less than 4kgs) and easy to carry (in a backpack).	
	Power consumption	Power Consumption less than 150W	
	Power Supply	AC Input 100~240V, 50/60Hz	
<b>15</b>	<b>Excavation of Cable</b>		
	Excavation of cable trench as per cable route plan, 1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr wide advised by Engineer-in-charge 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 Western Railway and instructions of Railway Engineer at site. In case 1m 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 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.		
<b>16</b>	<b>Supply, installation, testing and commissioning of full HD Bullet type IP colour Camera as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera</b>		
	Full HD Bullet type IP colour Camera along with 128 GB SD Card or Higher, housing and mount, day/night configuration and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera. Centralized feed required for Camera Installed.		
<b>17</b>	<b>Labour charges for installation and commissioning face attendance machine ,software ,PC, UPS, Camera, NVR, Hard disk, pipe cat6 cable , ofc cable ,4 U rack, POE Switch, Module etc (From Schedule A1 item Sr no: 25 to 37).</b>		
	<b><u>B2-SCHEDULE</u></b>		
<b>01</b>	<b>Installation of Dome camera .</b>		
	Installation of Dome camera with associated, Firmware, software. Installation as per site in charge.		
<b>02</b>	<b>Supply, installation, testing and commissioning of full HD Bullet type IP colour Camera along with 128 GB SD Card or Higher, housing and mount, day/night configuration and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera.</b>		
	Full HD Bullet type IP colour Camera along with 128 GB SD Card or Higher, housing and mount, day/night configuration and all accessories required for installation purposes as per RDSO Spec No RDSO/SPN/TC/65/2021, Rev 6.0 or latest. It includes supply and testing of adapter for direct power purpose for camera. Centralized feed required for Camera Installed at LC gate with necessary software .		
<b>03</b>	<b>Installation, testing &amp; commissioning of back box of cameras</b>		
	Installation, testing & commissioning of back box of cameras, as per site in charge.		
<b>04</b>	<b>43" smart TV</b>		
	<b>Specifications</b>		
	Screen Type	LED	
	HD Technology and resolution	Ultra HD (4K), 3840 x 2160	
	Smart TV	Yes	
	HDMI	3	
	USB	2	
	Built in Wi-Fi & Bluetooth	Yes	
<b>05</b>	<b>Laying of UTP/STP CAT-6 /PVC cable: (Sch B1:Item no 10)</b>		
<b>06</b>	<b>Installation, testing &amp; commissioning of 6U Network Rack</b>		
	Installation, testing & commissioning of 6U Network Rack with all accessories as per site Engineer.		
<b>07</b>	<b>8 Port POE L-2 switch (Installation): (Sch B1:Item no 1)</b>		
<b>08</b>	<b>9U rack: (Sch B1:Item no 2)</b>		
<b>09</b>	<b>16 channel NVR</b>		
	<b>Feature</b>	<b>Min Technical Specifications and Standards</b>	

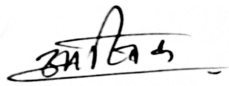
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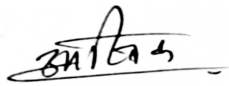
General Feature	Support corresponding channel of face comparison at the same time
	Support the classification of face recognition black and white lists and triggers various linkage methods
	Support to search for pictures and video files by face
	Support on-site capture, batch import, add face database, preview snapshot interface add face database, add smart snapshot history face database, export face database
	Support HTTP push face image docking and related configuration
	H.265+/H.265/H.264 dual stream decoding, embedded Linux operating system
	Support synchronous recording, remote monitoring, backup; up to 16CH video synchronous playback and multi-channel backward playback
	Support 30min instant playback, 30s pre-record
	Standard ONVIF, SLINK, RTSP protocol
	Support DDNS, EMAIL, UPNP, NTP, P2P and other functions
	Support IE, mobile phone APP, VMS monitoring
	Support external alarm; Two-way audio intercom
	Support our Smart IPC: Target Count, Object Left/Lost, Electric Fence, Line Crossing, Face Grouping List, Face Detection, Humanoid Detection, Retrograde Detection, Leave Position Detection
	Support IPC centralized management, including IPC parameter configuration, information export and import, real-time information acquisition and upgrade, etc
	Support channel grouping, preview tour
	Support disk grouping quotas and disk group storage modes
	Support double password authentication
	Support network monitoring: network traffic, network delay packet loss test, network packet capture backup
	Support current bandwidth, stream information
	Support offline collection
	Operating System
	Embedded Linux
	Bandwidth
	80MBPS
	Video Format
	H.265
	Video Resolution
	5MP\3MP\2MP
	Smart Functions
	Target Count, Object Left/Lost, Electronic Fence, Line Crossing, Face Grouping List, Face Detection, Humanoid Detection, Retrograde Detection, Leave Position Detection (need front end IPC supported)
	Record Mode
	Manual, Schedule, Motion Detection, Timing, Alarm, Stop
	Playback
	4CH 1080P, 1CH 5MP
	Backup Mode
	USB Device/Network
	Resolution
	4K
	Supported Channel
	16 Channel
	Video Output
	1 HDMI, 1 VGA
	Audio Input & Output
	HDMI audio
	Alarm Input &
	N/A

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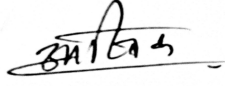
	Output	
	Storage	32 TB
	HDD	4 SATA, MAX 8TB HDD
	Network Interface	1*RJ45 10M/100M self-adaptive LAN port
	Network Function	DDNS,EMAIL,UPNP,NTP,DHCP,IP Filter,PPPoE,P2P
	Smart Phone	iPhone, Android
	USB	2 USB Ports(2 USB2.0)
	RS232	N/A
	RS485	N/A
	Power Supply	DC52V 4.62A
	Power Consumption	≤10W(without HDD )
	Certification	CE,ROHS,FCC & BIS
	<b>OEM Authorization Certificate</b>	<b>Bid specific OEM Authorization Certificate (MAF) should be submitted along with Bid.</b>
	Credentials	Manufacturer should be ISO 9001:2015, ISO 14001:2015, ISO 27001:2013 & CMMI Level 5 certified.
	Product Origin	Product should comply make in India policy.
	Installation of 16 Channel NVR as per site Engineer.	
<b>10</b>	<b>Horizontal direction drilling/boring: (Sch B1:Item no 13)</b>	
<b>11</b>	<b>Excavation of Cable: (Sch B1:Item no 15)</b>	
<b>12</b>	<b>4G LTE Modem</b>	
	300Mbps 2.4GHz Wireless N 4G LTE, Wi-Fi N300, Plug and Play, with Micro SIM Card Slot, Power Adapter, RJ45 Ethernet Cable.	
	Wireless Communication Standard: 802.11n, 802.11b, 802.11ax, 802.11g, 802.11ac	
	Gigabit Ports - One Gigabit WAN & Three Gigabit LAN ports for high speed wired connectivity.	
	LAN Port Bandwidth- 10/100/1000	
	max upstream rate- 1500 megabits per second	
	security protocol- WPA2-PSK	
	connectivity tech- Wi-Fi, Ethernet	
	Number of ports- 4	
<b>13</b>	<b>Hiring of JCB</b>	
	<p>JCB machine must be hired in good working 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 road permit for vehicle for all the state of operation, as per instructions of engineer in charge and vehicle shall not be more than three years old. Payment shall made for actual working hours at site. (i) 01 JCB machine for approx 4 to 5 Hrs. per day for 30 days.01x5Hrsx30 days=150 Hrs. (ii) The time period and working days may decrease/increase as per site conditions. The payment shall be made as per actual working hours.</p> <p>1. The work will be carried out as per instruction of Railway representative or Engineer in-charge with contractor's own labour, material and T&amp;P.</p> <p>2. The JCB hired from the contractor must be in good working condition &amp; devoid of any defects.</p> <p>3. In the event of any dispute the decision of Sr.DSTE/ADI shall be considered as final and binding to all.</p> <p>4. The Rates quoted by contractor must be inclusive of all taxes, tools, &amp; plants, labour and other charges levied.</p> <p>5. The JCB Machine operator must be in possession of a cell phone &amp; cell number must be made available to concerned Railway representative and Engineer in-charge.</p> <p>6. If on calling the JCB Machine operator does not respond to the call then the payment for that day will be deducted from the bill of the contractor.</p> <p>7. The JCB Machine supplied must be able to work satisfactorily.</p>	

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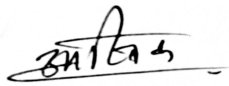
	8. The JCB machine may be required to be shifted as and when required by Railway to location as specified by site Engineer. The work to be carried out as per direction of Railway representative and Engineer in-charge. <b>The format of Log-Book is as under:</b>						
	Sr.No.	Date	Time		Total Hrs work done	Signature	
			From	To		Contractor	S&T Deptt.
14	<b>As and when required by the Engineer in charge arranging/providing of labours for various safety related works such as protection of track etc.</b>						
	As and when required by the Engineer in charge arranging/providing of labours for various safety related works such as protection of track etc. with contractors T&P, equipment etc. Scope of work as furnished in the tender and directed by the Engineer in charge.						
15	<b>Supply and fabrication of flange mounted hot dip poles</b>						
	Supply and Fabrication of flange mounted hot dip galvanised octagonal poles of 5.0 mtrs. 4mm thick with all installation accessories including foundation, as per instruction by site Engineer.						
16	<b>Erection of flange mounted hot dip poles</b>						
	Erection, concreting of flange mounted hot dip galvanized octagonal poles of 5 mtrs. Length made from 4mm thick MS sheet, complete with window at a suitable height (with accessories internal cable termination, loop in loop out arrangement & 5A MCB suitable for light fitting) from the base with flush cover for cable termination block etc. galvanised base plate of size 310 mm x20 mm and 2 nos. of 12 mm dia G.I. earth bolt with 2 nos. washer and nut welded at a height of pole as required, on the RCC Pedestal.						
17	<b>CCTV (Installation)</b>						
	Installation Charge (including wiring) of CCTV camera NVR, rack, UPS, and other accessories at LC gates.						
	<b><u>B3- SCHEDULE</u></b>						
01	<b>Laying of OFC/Power cable/CAT-6/ PVC cable: (Sch B1:Item no 08)</b>						
02	<b>Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels/Switch(Installation): (Sch B1:Item no 09)</b>						
03	<b>Installation, testing &amp; commissioning of maintenance free earth electrode: (Sch B1:Item no 07)</b>						
04	<b>Installation, wiring ,testing and commissioning of STM-4</b>						
	Installation, wiring, testing and commissioning of STM-4 with all accessories, 19” rack with suitable stand/ platform made of MS angle/CC , power supply board FDF racks (Already installed) , DDF with miniature 'U' link type for 63E1s , runway ladder, etc. This includes connecting all pig tails, optical patch cords etc. to the SDH equipments. This also includes connecting the SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors, termination of all E1 on DDF , taking PVC cable over runway or a wall and termination of VF interface circuits to the krone type or as per site Engineer.						
05	<b>Installation, Wiring of D / I Mux</b>						
	Installation, Wiring of D / I Mux with E1 interface cards connection to 48V bus bar & termination of VF/Data interface circuit to the crone MDF in already installed 42U EURO Rack.This include4s termination of PVC cable at both ends, taking PVC Cable over runway or on the wall. This also includes supply of PVC cable of conductor size 0.63 mm. (ii) Testing and commissioning of STM-1/ D / I Mux Equipment installed vide item no. 1 & 2 above using NMS as per as per approved test protocol. The work includes submission of all technical documents, manuals. All miscellaneous items required for the final testing and commissioning for the system will be supplied by the contractor. Installation, Wiring of D / I Mux as per site Engineer.						
06	<b>Installation &amp; commissioning of Multimedia Projector</b>						
	Multimedia Projector Resolution 1280 X 800 WX GA, ANSI LUMEN3000 with Installation of Ceiling Mount kit & other fitting make -Sony/Epson/BenQ/Dell or latest/superior. All necessary accessories required for installation will be provided by contractor. Installation & commissioning of Multimedia Projector as per site Engineer.						
07	<b>Installation, testing &amp;commissioning of Main Array able12" Two way, Full range loudspeaker</b>						
	Installation, testing &commissioning of Main Array able12" Two way, Full range loudspeaker system model Electro-Voice EVF-1122S/126-BLK or superior with required all complete accessories for installation. .Installation as per site Engineer.						
08	<b>Installation, testing &amp;commissioning of stage monitor power loudspeakers</b>						
	Installation, testing &commissioning of stage monitor power loudspeakers. Model-Electro-Voice ELX112P or superior						

Tenderer's Signature  
Date

  
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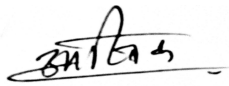
	with required all complete accessories for installation as per site Engineer.																																								
<b>09</b>	<b>Installation, testing &amp; commissioning of Two-in/six-out Digital sound system Processor</b>																																								
	Installation, testing & commissioning of Two-in/six-out Digital sound system processor, Model- Electro-Voice DC-one or similar with required all complete accessories for installation as per site Engineer.																																								
<b>10</b>	<b>Installation, testing &amp; commissioning of Front Fill, 8" Two-way Loudspeaker</b>																																								
	Installation, testing & commissioning of Front Fill, 8" Two-way Loudspeaker, Model Electro-Voice ZX1-90B or superior with required all complete accessories for installation as per site Engineer.																																								
<b>11</b>	<b>Installation, testing and commissioning of Dual channel 1800 W, Class-H power amplifier</b>																																								
	Installation, testing and commissioning of Dual channel 1800 W, Class-H power amplifier, for array speakers & subwoofer. Model- Electro-Voice Q1212 230 V or superior with required all complete accessories for installation as per site Engineer.																																								
<b>12</b>	<b>Installation, testing and commissioning of dual channel 650W, class-AB power amplifier</b>																																								
	Installation, testing and commissioning of dual channel 650W, class-AB power amplifier, for Front Fill speakers, Model Electro-Voice Q44-II 230 V or superior with required all complete accessories for installation as per site Engineer.																																								
<b>13</b>	<b>Installation, testing and commissioning of 16 channel audio mixer with digital audio mixer with digital audio interface</b>																																								
	Installation, testing and commissioning of 16 channel audio mixer with digital audio mixer with digital audio interface. Model-Dynacord CMS 1600-3 Mixing desk or superior with required all complete accessories for installation as per site Engineer.																																								
<b>14</b>	<b>Supply, installation, testing and commissioning of condenser overhead &amp; instrument microphone</b>																																								
	Model- Electro- Voice PL-37 or superior with required all complete accessories for installation. Element Type: Self-Biased Condenser, Frequency Response: 50 Hz – 16,000 Hz, Polar Pattern: Cardioid, Power Requirements: Phantom Supply Requirement: 11 to 52 VDC, 4 mA <ul style="list-style-type: none"> <li>• Sensitivity, Open Circuit Voltage, 1 kHz: 7.0 mV/Pa (-43 dBV)</li> <li>• Rated Impedance: 200 ohms</li> <li>• Microphone Connector: 3-pin, XLR-type</li> </ul>																																								
<b>15</b>	<b>Supply, installation, testing &amp; commissioning of handheld Wireless microphone system</b>																																								
	Model -Electro- Voice R300-HD-A or superior with required all complete accessories for installation. <b>Specification:-</b> <table> <tr> <td>Modulation</td><td>± 40 kHz</td></tr> <tr> <td>Diversity</td><td>True Antenna</td></tr> <tr> <td>RF Sensitivity</td><td>&lt;1.0 µV for 12 dB SINAD</td></tr> <tr> <td>Image Rejection</td><td>&gt; 55 dB</td></tr> <tr> <td>Squelch</td><td>Tone Code plus Amplitude</td></tr> <tr> <td>Power Requirements</td><td>12-16 VDC, 500mA max</td></tr> <tr> <td>Operating Temperature</td><td>5°C to 45°C (41°F to 113°F)</td></tr> <tr> <td>Dimensions</td><td>43 mm H x 206 mm W x 210 mm D (1.72 in H x 7.8 in W x 8.0 in D)</td></tr> <tr> <td>Audio Parameters,</td><td></td></tr> <tr> <td>Frequency Response</td><td>80 Hz - 18 kHz ± 2 dB</td></tr> <tr> <td>Balanced Output</td><td>20 dBV (max @ 40 kHz deviation)</td></tr> <tr> <td>Unbalanced Output</td><td>Adjustable 8 mV to 0.755V RMS</td></tr> <tr> <td>Distortion</td><td>&lt; 1.0%, 0.4% typical (ref 1 kHz, 40 kHz deviation)</td></tr> <tr> <td>Signal-to-Noise Ratio</td><td>&gt; 100 dB A-Weighted</td></tr> <tr> <td>Dynamic Range</td><td>&gt; 95 dB</td></tr> <tr> <td>BP-300 and HT-300 Transmitter Specifications</td><td></td></tr> <tr> <td>Radiated Output</td><td>8 mW typical</td></tr> <tr> <td>Back Lit LCD Display</td><td>Channel, Frequency, Mute, and Battery Level</td></tr> <tr> <td>Microphone Head</td><td>Electro-Voice PL22 Cardioid Dynamic</td></tr> <tr> <td>Standard Lavalier Microphone</td><td>Electro-Voice ULM18 Uni-Directional Condenser</td></tr> </table>	Modulation	± 40 kHz	Diversity	True Antenna	RF Sensitivity	<1.0 µV for 12 dB SINAD	Image Rejection	> 55 dB	Squelch	Tone Code plus Amplitude	Power Requirements	12-16 VDC, 500mA max	Operating Temperature	5°C to 45°C (41°F to 113°F)	Dimensions	43 mm H x 206 mm W x 210 mm D (1.72 in H x 7.8 in W x 8.0 in D)	Audio Parameters,		Frequency Response	80 Hz - 18 kHz ± 2 dB	Balanced Output	20 dBV (max @ 40 kHz deviation)	Unbalanced Output	Adjustable 8 mV to 0.755V RMS	Distortion	< 1.0%, 0.4% typical (ref 1 kHz, 40 kHz deviation)	Signal-to-Noise Ratio	> 100 dB A-Weighted	Dynamic Range	> 95 dB	BP-300 and HT-300 Transmitter Specifications		Radiated Output	8 mW typical	Back Lit LCD Display	Channel, Frequency, Mute, and Battery Level	Microphone Head	Electro-Voice PL22 Cardioid Dynamic	Standard Lavalier Microphone	Electro-Voice ULM18 Uni-Directional Condenser
Modulation	± 40 kHz																																								
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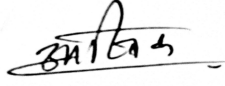
	TA4F Connector Wiring	Pin 1 Ground; Pin 2 Mic Input; Pin 3 +5V bias; Pin 4 +5V thru 2.2k $\Omega$
	Power Requirement	Two AA batteries
	Battery Life (Typical)	> 14 hours with AA alkaline typical
	Bodypack Antenna	Flexible external 1/4 wave
	Handheld Antenna	Internal proprietary
	Dimensions (Bodypack)	84 mm H x 66 mm W x 23 mm D (3.3 in H x 2.6 in W x 0.89 in D)
	Dimensions (Handheld)	26.7 cm (10.57 in) Long
16	<b>Supply, Installation and commissioning of HDMI cable</b>	
	<b>GENERAL DESCRIPTION:-</b>	
	<b>Description</b>	HDMI cable transferring both high definition audio and video over a single cable
	<b>Recommended for</b>	Desktop Computer, Laptop, Multi Media Projector, HDTV, HD Monitor, Blu-ray Player
	<b>Standard length of HDMI Cable (in metre)</b>	3
	<b>HDMI cable connector type</b>	HDMI (19 Pin) Male to Male
	<b>CONSTRUCTION:-</b>	
	<b>Resolution support</b>	Up to 4K
	<b>Conductor Material</b>	Copper
	<b>Conductor gauge</b>	28 AWG
	<b>Cable Shield Type</b>	Aluminum Foil
	<b>Cable Jacket Type</b>	PVC
	<b>Connector plating</b>	Gold Plated
	<b>Cable color</b>	Black
17	<b>Supply, installation &amp; commissioning of 8 port HDMI splitter</b>	
	<b>Description:</b> 1x8 HDMI Splitter is an HD audio and video distributor that connects the HDMI signal source to the input of the splitter, and allows one HDMI input port to allocate eight HDMI output ports. Support 4K Ultra HD & 3D: HDMI Resolution: 3D, Full HD, 4kx2k, 1080p. Supported Audio Format: LPCM, Dolby-AC3, DTS7.1, DSD/Dolby True HD/DTS-HD master audio. Wide Compatibility: Support computer PCs, Blu-ray players, and media players, PC, STB, PS3, HDMI displays, projector, monitors, Cable box, DVD player and HDTV etc. Application Scene : Suitable for home theatre, school, video conference, multimedia teaching, data control center, shopping mall TV and Activity venue, etc. Installation with all accessories.	
18	<b>Supply &amp; Installation of Professional 19" Equipment Racks 12U for housing of network equipment.</b>	
	Dimensions	12U 19", 590x600x440 mm, (H x W x D), 370mm working depth, (distance from bars to rear panel)
	Type	wall-mounted, welded body, removable sides
	Door	4mm toughened glass
	Cable entry	Top+Bottom
	Mounting Profile	1 Pair (front)
	Fan Openings	Yes
	Installation of 12U Rack with all accessories, as per site Engineer	
19	<b>Interior work for new NOCC building including work station, L-Type furnished table including furnishing, Plastering, Glass work, Wooden Modular Design as per requirement.</b>	
	Supply and installation of interior of New NOCC/ADI, which includes 1 Supply of High Back Revolving Chair 4 Nos2 Supply of Revolving Chair 10Nos 3 Supply of Office Computer Table (5 X 4Feet) 2Nos 4Supply of Computer Table 4 Nos 5 Supply of Steel table (3X5-112 Feet) 3 Nos 6 Supply of Steel Amirah with partition 1 for equipment storage 2 Nos 7 Supply of Steel Amirah with partition for Documents 2 Nos I Supply of Locker for Almerah Type (8 Box) 2 Nos 9 Supply of Steel Stool 10 Nos 10 Supply of Table glass for item no.-3,4&5 7 Nos 11 Supply of Workstation table 8 Seats 12 Aluminum Ladder (12 Feet) 2 Nos 13 Aluminum Ladder (6 Feet) 2 Nos or as per consignee requirements.	
	<b>General Instruction for Execution</b>	

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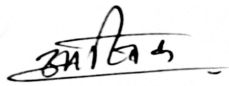
a.	<b>All the items to be supplied and / or installed shall be conforming to the relevant RDSO Specification unless otherwise state in this chapter: -</b>
b.	All the relevant supply item(s) of tender schedule material should be procured from the RDSO approved firm only if available.
c.	Technical Specification(s) for the relevant supply item(s) in this tender schedule. The system is required to work for 365 X 7 X 24 Hrs. & hence all hardware, accessories & software should withstand for such a continues working.
d.	RDSO specification material should be procured from the RDSO approved firm only, if RDSO approved firms are available.
e.	Trenching, Laying of HDPE Duct 40/33 mm for blowing of 24 fiber OFC cable in standard practice as per manual through if required provided by consignee in-charge.
f.	Jointing of 24 fiber cable available schedule with jointing pit.
g.	Installation of FDMS as per Consignee.
h.	Laying of 6 core OFC cable with 25 mm HDPE pipe
i.	<b>Single Mode Optical fiber cable</b> <ul style="list-style-type: none"> <li>6 -core armored optic fiber cables are to be laid in HDPE in outdoor location/PVC pipe in indoor location/underground.</li> <li>OFC cable shall be laid from in various locations in HDPE pipe / conduit pipe after putting. The cables shall be properly dressed and clamped at regular intervals of approximately 1 meter. OFC cable shall be laid standard practice as per telecom manual.</li> <li>OFC cable termination at all location in FDMS/LIU. &amp; splicing with Pigtail cable.</li> </ul>
j.	<b>FDMS/LIU with patch cord.</b> <ul style="list-style-type: none"> <li>FDMS/LIU LIUs shall be installed in the 15U racks at various field locations or as per railway representative engineer in-charge.</li> <li>Splicing and termination of OFC on FDMS/LIU/LTE box using proper length pig tail. It will be extended to switch/SFP module through patch cords as per site condition.</li> <li>Splicing, testing &amp; termination of OFC cable as per site requirement on Contractor's own cost</li> </ul>
k.	Installation of all networking equipments i.e. GPON equipment , switch, RFTS, GIS mapping etc.
l.	This is very large project hence the offer should include all items, which may not have been specifically mentioned in the schedule but are essential for completing the work. Any additional material/equipment required for the work envisaged by the Tenderer should be specifically quoted else those shall be required to be supplied free of cost by the Tenderer.
m.	Contractor shall provide all the testing and the measuring equipment for testing of schedule items of tender document without any cost
n.	<p>The entire work is to be carried out in strict compliance to the tender conditions and specifications.</p> <p>The work shall include broadly following activities: -</p> <p>Clearing of bushes, grass, trees etc. falling in the cable route, trenching in all kinds Of soils and rocky area, laying of ducts, pipes etc. in the trenches made and Refilling the trench with excavated material/ soil after laying of all types of cable, pipes etc. (as per the instructions of engineer in-charge of the work and placing of cable route indicator/marker as mentioned in the tender schedule).</p> <p>Laying of PIJF/24 fiber OFC direct in the trench or through HDPE pipe/GI pipe /DWC pipe.</p> <p>Laying of PIJF cable /OFC cable with Dust free joints site.</p> <p>Jointing of PIJF cable /OFC cable using of TSF jointing kits/ FDMS.</p> <p>Laying of cables/Duct in trenching, if any</p> <p>Before laying of cable all cable to be tested</p>
o.	<p>Terminations of PIJF cable /OFC cable at earmarked locations.</p> <p>Providing communication/ networking through PIJF/OFC cable.</p>
p.	<ul style="list-style-type: none"> <li>Supply of material after inspection (RDSO/RITE/Consignee)</li> <li>Trenching, Laying/Jointing and back filling of underground PIJF cable /OFCcable with HDPE duct. Installation of Networking equipment Gpon etc.</li> </ul>
q.	This includes digging of 1.2/1.0 meter deep and 0.3 M Wide trenches in all types of soils along with soft rock including marking of trench lines, cutting all trees and clearing of bushes enroute and cutting and carrying away debris and surplus earth, de watering where necessary etc. as per cable route plan and back filling after laying of cables.
r.	The item also includes covering of cable laid in the trench by soil for approx. 5 Cm before Covering by bricks if available in schedule, clearing of roots of trees and bushes and temporary obstruction on the selected route, Fixing of Cable Route Markers alternately at every 50 Meters and at every joint.
s.	<b>FUTURE AVAILABILITY OF SPARES AND ADDITIONAL PART.</b>

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	For future expansion maintenance of the system, the Railways shall require spares and additional parts or other components. Tenderer shall guarantee that spares and such additional part will be supplied as and when Railways place order for the same. Any orders placed by the Railways on the contractor within the expiry of warranty period will be fully honoured. The fact that the contractor is supplying some materials from third party will not absolve the tenderer from his responsibility.
<b>t.</b>	<b>DOCUMENTS TO BE HANDED OVER TO RAILWAYS.</b>
	<p>The technical manual for all the equipment at card level = 4 sets.</p> <p>Operating/maintenance manual for all the equipment including programming different functions = 4 sets minimum.</p> <p><b>System details and site installation detail/drawings bound in a book (A3 size) for each Stations = 3 sets.</b></p> <p>Cable termination detail at each termination points.</p> <p>Equipment and card layout plan.</p> <p>Details of power supply arrangement.</p> <p>Measurement documents of both side links of the station as per RDSO/TEC Spec.</p> <p>Details of earthing arrangement and measurement.</p> <p>Link design of whole section = 8 sets.</p> <p>Measurement of link Parameters as per RDSO/TEC spec. = 8 sets.</p> <p>Any other documents/drawings as required by the Railways.</p>
<b>u.</b>	<p><b>Note:-</b></p> <ol style="list-style-type: none"> <li><b>1. Tenderers are requested to inspect the site before quoting the rates.</b></li> <li>2. For Drawing &amp; RDSO specifications refer to the latest issue.</li> <li>3. The cost of supply of minor materials and accessories other than specification &amp; condition but necessary for Installation, should be included while quoting the rates.</li> <li>4. Rate quoted by the Tender should include all Taxes/GST&amp; duties.</li> <li>5. If any deviation noticed in the certificate endorsed below, Railway decision shall be final.</li> <li>6. Railway reserves the right to accept or alter/delete the quantity under schedule items.</li> <li>7. The tenderer should submit certified copies of documents along with Tender in support of his credential so as to ascertain the ability to carry out the work.</li> </ol>
<b>IN CASE OF ANY CONFUSION BETWEEN THE DRAWING AND INSTRUCTIONS OR BETWEEN ANY TWO CLAUSES OF THE TENDER DOCUMENT THE DECISION OF ENGINEER IN CHARGE SHALL BE FINAL.</b>	

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5852210/2024/O/o Sr DSTE/W/S&amp;T/MMCT/WR



भारत सरकार Government of India  
रेल मंत्रालय Ministry of Railways  
(रेलवे बोर्ड Railway Board)



No. 2024/CE-I/CAO(C)Workshop/part-2

New Delhi, dated: 03.06.2024

**The Principal Chief Engineers**  
All Indian Railways.

**Sub: Instructions for incorporating the JPO, Circular etc. Provisions in the Tender Document for all works requiring digging work close to Railway signaling, telecommunication, electrical etc. Cables. .**

Ref: (i) Board's letter No. 2021/Tele/5(2)/3-Part(1)(3425647) dated 12.06.2023

Board vide letter under reference (i) "Telecom Circular No. 09/2023" has issue a Joint Procedure Order (JPO) on the subject 'procedure for undertaking digging work in the vicinity of Signaling, Electrical and Telecommunication cables'. (Copy enclosed)

In regard to lodging FIR with RPF in cases of work being executed by authorised contractors who have been duly permitted to execute the works, Zonal Railways are requested to ensure strict compliance of para 9 containing in Board's letter under reference (i) "Telecom Circular No. 09/2023" which is reiterated as under:-

'Para-9:- Railway will not lodge FIR with RPF in cases of works being executed by authorized contractors of Railways who has been duly permitted to execute the works'.

DA:- As above.

03.06.24  
(गौरव)

**निदेशक सिविल इंजीनियरिंग(जी)**  
**रेलवे बोर्ड**

[Phone: 030-47598(Rly) : 011-23307598(MTNL)]  
Email address: dceg@rb.railnet.gov.in;

Signature Not  
Verified  
Digitally signed by  
YOGESH GUPTA  
Date: 2024.07.25  
16:43:45+05'30'  
Reason: IREPS-CRIS  
Location: New Delhi

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Date

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आज़ादी का  
अमृत महोत्सव

भारत सरकार Government of India  
रेल मंत्रालय Ministry of Railways  
रेलवे बोर्ड (Railway Board)



### Telecom Circular No.09/2023

सं.2021/Tele/5(2)/3-Part(1)(3425647)

नई दिल्ली, दिनांक: 12.06.2023

The GM/CMD/MD/PCAO/CAO,  
All Indian Railways, KRCL, PUs, CORE, COFMOW  
(As per standard list)

The DGs/Directors  
RDSO, NAIR, All CTIs

**Sub.: Procedure for undertaking digging work in the vicinity of Signalling, Electrical and Telecommunication cables**  
**Ref.: JPO issued vide Board's letter No.2003/Tele/RCIL/1Pt.IX dated 24.06.2013 (Telecom Circular No.17/2013)**

\*\*\*\*

A Joint Procedure Order (JPO) for undertaking digging work in the vicinity of underground Signalling, Electrical and Telecommunication cables was issued last vide Board's letter No.2003/Tele/RCIL/1Pt.IX dated 24.06.2013 (Telecom Circular No.17/2013). Notwithstanding the provisions contained in the JPO for protection of cables, a significant number of cable-cut incidents and practical difficulties in implementation of certain provisions of the said JPO were reported.

Board, therefore, constituted a committee of SAG officers to revisit the JPO. Based on the recommendations of the committee, Board (MI) has approved broad guidelines for procedure to be adopted by Zonal Railways for protection of cables while undertaking digging work in their vicinity (Annexure). These guidelines are in supersession of JPO issued vide reference above.

Zonal Railways are requested to issue local instructions/guidelines/JPO implementing these broad guidelines within a month of issue of this letter. Zonal Railways may also ensure that these local instructions/guidelines/JPO are also made part of all tenders for works in the vicinity of cables in accordance with the instructions issued by Civil Engineering Dte of Railway Board vide letter No.2023/CE-I/EDCE(G)/Misc. Dated 18.04.2023.

DA: As above

राजेश  
24/6/23  
(राजेश रंजन)

कार्यकारी निदेशक (दूरसंचार विकास)

दूरभाष: 011-47843012, 030-43012

ई.मेल: edtd@rb.railnet.gov.in

Copy to:

1. PSO to M(I) for kind information of Member/Infra
2. ED/SD, EDEE/M, EDCE/G, ED/GS/C-II for information & ensuring implementation of guidelines in letter & spirit
3. PCSTE, PCE & PCEE, All Indian Railways

कमरा सं.103-ए, रेल भवन, रायसीना रोड, नई दिल्ली - 110001

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(Annexure to letter No. 2021/Tele/5(2)/3-Part(1)(3425647) dated 12.06.2023)

**Annexure****Guidelines for protection of cables while doing work its vicinity**

1. Cable route marking for all types of cable must be made available block section wise on Railnet.
2. Before allowing the contractor to work near the tracks, the work executing agency (like SrDSTE/SrDEN/SrDEE or DyCSTE/DyCEE/DyCE etc.) shall ensure that the permission has been granted by the division to the contractor in accordance with the local instructions / JPO to work in the vicinity of the cables. Zonal railways shall devise suitable mechanism and timelines for the obtaining/granting such permission.
3. In case of works being taken up by the State Government, National Highway Authority etc., zonal railways shall devise mechanism for shifting the cables or for proper protection of cables before granting permission to work.
4. The engineering control shall keep all the information regarding any works being done near the track. S&T and electrical control shall obtain this information from engineering control. These controls shall coordinate among themselves to ensure that no work is done in the vicinity of the track without proper permission.
5. The concerned SE/P.Way/SE/Works/SE/Sig/SE/Tele SE/Electrical (TRD or G) or RailTel supervisors supervising the work of the contractor shall ensure that the existing emergency sockets are not damaged due to their importance in providing communication during accident/emergency.
6. For all new works, cable shifting should be a mandatory part of DPR and estimate. For ongoing works, Zonal Railways may sanction works for cable shifting if necessary through contingency/supplementary/revised estimate where provision does not exist. However, in case zonal railways decide not to shift cables (due to any reason) then protection of cable shall be ensured by the zonal railways during execution of the work.
7. Penalty to be imposed for damages to cable shall be as under:

Cable damaged	Penalty per location
Only Quad cable or Signaling cable	₹ 1.0 Lakh
Only OFC	₹ 1.25 Lakh
Both OFC & Quad	₹ 1.5 Lakh
Electrical Cable	₹ 1.0 Lakh







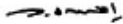

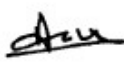

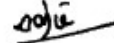
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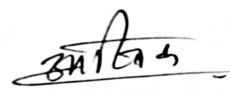
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8. Penalty should be levied on the contractor when they work without permission or resort to careless working without making arrangements for protecting cables and other utilities. Based upon the local conditions and practices, zonal railway shall devise its own conditions for examining and levying penalty. For each cable cut, a joint report at the level of supervisors should be prepared on the same day and it should become the basis for levying penalty and fixing responsibility. Joint note should be forwarded by SrDSTE/SrDEE to the executive in-charge of the work. The executive in-charge of the work should act and decide on the cable cut case within 15 days under information to SrDSTE/SrDEE as the case may be. There should be provision of appeal by contractors within one month of notice for levying penalty at ADRM level. Decision of ADRM shall be final and binding upon both parties.
- ✓ 9. Railways will not lodge FIR with RPF in cases of works being executed by authorized contractors of Railways who have been duly permitted to execute the works.
10. Zonal Railways shall issue local instructions/JPO for protection of cables while undertaking works in the vicinity of railway tracks in line with this guideline. Zonal Railways shall also ensure that such instructions become part of their tender document within one month of the issue of the local instructions. Suitable action against erring officials shall also be incorporated in these instructions if the same is not adhered to.

Tenderer's Signature  
Date

  
DRM S&T ADI  
For & on behalf of the President of India



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पश्चिमरेलवे  
प्रमुख मुख्य संकेत एवं दूरसंचार  
इंजीनियर का कार्यालय,  
5वींमंजिल, स्टेशनभवन, चर्चगेट,  
मुंबई-400 020



Western Railway  
Office of the  
Principal Chief Signal & Telecom  
Engineer,  
5th Floor, Station Building Churchgate,  
Mumbai-400 020.

No. SG 217/9(Computer No- 433074)

Dt: 08.01.2024.

CSTE/C-I, CSTE/C-II

Sr.DSTE/Co-MMCT, BRC, RTM

Sr.DSTE/S/MMCT, Sr.DSTE/N/MMCT, Sr.DSTE/N/BRC, Sr.DSTE/ADI

Sr.DSTE/Sig/ADI, Sr.DSTE/W/RTM, Sr.DSTE-RJT, Sr.DSTE-BVP

(POLICY NO-01/2024)

Sub: - Shifting and Laying of Signal & Telecom Cable in new doubling  
works

In recent past there have been many cases in various Divisions where doubling works or other activity is going on. There is massive cut of Signaling and Telecom cables during the course of earth work or preparatory works. In the current year total 417 cable cut cases have taken place.

Such cuts lead to heavy detention to train traffic and movement of trains by piloting of PLC for hours together.

Therefore, following policy is to be adopted for construction works to avoid cable cuts:

- (i) No work of cable trenching should be carried out without site survey and prior intimation to avoid signal and telecom cable cutting and resulting detention to train traffic.
- (ii) For sections which are targeted for commissioning in the present financial year. Adequate planning for identification (Cable route tracing) and rectification should be done in ongoing contracts along with provision of restoration by trenching, cable laying, jointing etc. to be executed through ongoing works or if required by operating NS items in existing contracts. This may be planned by separate works if decided by construction units.
- (iii) Objective is to obviate and minimize cable cuts of signal and telecom cable and if despite of efforts cable gets cut to achieve the restoration in shortest possible time.
- (iv) For doubling works which are not targeted in the current year S&T Construction Unit should immediately plan works of relocating all the cables in infringement and which are falling under the plan earth work site. In case of

Tenderer's Signature  
Date

DRM S&T ADI  
For & on behalf of the President of India

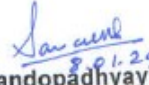
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multi tracking, where such relocation is inescapable, the new cable should laid out of all the toe line.

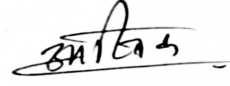
- (v) Sufficient provision in existing contract or new contract in schedule items should be made for restoration of damaged cables. Cable trenching, laying and suitable protection (as per policy of Board) etc. to avoid cable cuts and early restoration in case inadvertent happens.

This has the approval of PCSTE/WR.

  
(S. Bandopadhyay)  
CSE (HAG)/WR/CCG

END OF TENDER DOCUMENT

Tenderer's Signature  
Date

  
DRM S&T ADI  
For & on behalf of the President of India