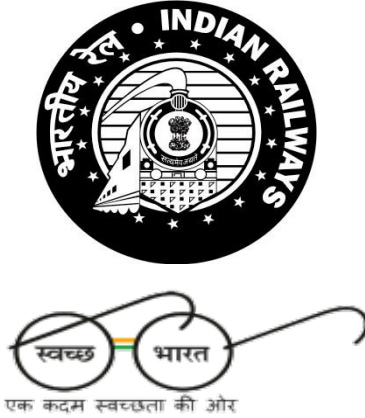


CENTRAL RAILWAY



TENDER DOCUMENT

E-Tender No:	CR-PA-SNT-WKS-T-2026-04
Name of Work:	Provision of train indicator, Coach indicator and other passenger amenities in connection with the work of "Provision of minimum essential amenities and Divyangjan Facilities at Valivade, Bhilawadi and Rukadi stations of Pune division".
Price:	NIL
Cost of Work:	Rs. 1,13,10,363.02

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CHAPTER-I

Instructions to Tenderers

E-Tender No. CR-PA-SNT-WKS-T-2026-04

1.0	TENDER NOTICE:	
	E-TENDER No. CR-PA-SNT-WKS-T-2026-04	
	Divisional Railway Manager (S&T), Central Railway, Pune for and on behalf of President of India, invites Open E-tender through website https://www.ireps.gov.in for following work –	
	Name of Work	Provision of train indicator, Coach indicator and other passenger amenities in connection with the work of "Provision of minimum essential amenities and Divyangjan Facilities at Valivade, Bhilawadi and Rukadi stations of Pune division".
	Cost of the work	Rs. 1,13,10,363.02
	Bid Security (EMD)	Rs. 2,26,200.00
	Cost of Tender Document	Nil
	Completion Period	6 (Six) Months
	Validity of Offers	60 Days from the actual date of closing of tender.
	Date & time of submission of bid	From 26.06.2026 and up to 15:00 hrs. on 10.07.2026.
	Closing date for Submission of tender	Up to 15.00 hrs. on 10.07.2026.
	The prospective tenderers are requested to visit the website https://www.ireps.gov.in for all the details of tender from time to time before the date of closing for submission of tender to note any changes / updates / corrigenda, if any.	
	Tenderer should participate electronically only in above E-tender through website https://www.ireps.gov.in & submission of manual offers against E-tender is not allowed. Manual offers, if submitted shall neither be opened nor be considered.	
	The bidders will have to make payment towards Bid Security (EMD) against E-tenders through online payment (Payment Gateway) modes like net banking, debit/credit cards etc. available on website https://www.ireps.gov.in portal or it can be submitted as Bank Guarantee bond from a Scheduled Commercial Bank of India or as mentioned in tender documents/GCC. The Bank Guarantee bond shall be as per Annexure-VIA of GCC April-2022 and shall be valid for a period of 90 days beyond the bid validity period. In case, submission of Bid Security in the form of Bank Guarantee, then instructions given in GCC April-2022 & any subsequent modifications in GCC issued by Railway Board, shall be ensured.	
	For any enquiry, may contact at our office address – Senior Divisional Signal & Telecommunication Engineer, 3 rd Floor, DRM Office, R.B.M. Road, Near Hotel Sheraton Grand, Central Railway, Pune-411001.	
1.1	ELIGIBILITY CRITERIA: The Tenderer(s) shall necessarily satisfy the eligibility conditions as listed below on the date of closing of tender (closing date for submitting the offer). Please note that this eligibility criteria will be applicable for tenders having advertised cost of work more than Rs.50 lakhs.	
1.1.1	Technical Eligibility Criteria:	
	A)	The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: a) Three similar works costing not less than the amount equal to 30% of advertised value of the tender, or b) Two similar works costing not less than the amount equal to 40% of advertised value of the tender, or c) One similar work costing not less than the amount equal to 60% of advertised value of the tender.
	B)	(i) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges – substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: a) Three similar works costing not less than the amount equal to 30% of advertised value of each component of tender, or b) Two similar works costing not less than the amount equal to 40% of advertised value of each component of tender, or c) One similar work costing not less than the amount equal to 60% of advertised value of each component of tender. Note for (B)(i): Separate completed works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components.
		(ii) In such cases, what constitutes a component in a composite work shall be clearly predefined with estimated tender cost of it, as part of the tender documents without any ambiguity.

		<p>(iii) To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of 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.</p> <p>However, if required in tender documents by way of Special Conditions, a formal agreement duly notarized, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer for considering subletting of that scope of work towards fulfilment of technical eligibility. Such subcontractor must fulfill technical eligibility criteria as follows:</p> <p>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 sublated, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract.</p> <p>Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway.</p> <p>In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract, with prior approval of Chief Engineer in writing.</p>
		<p>NOTE for Item no.1.1.1: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, 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.</p> <p>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.</p>
1.1.2		<p>Financial Eligibility Criteria:</p>
		<p>The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where</p> <p>V= Advertised value of the tender in crores of Rupees</p> <p>N= Number of years prescribed for completion of work for which bids have been invited.</p> <p>The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.</p> <p>The tenderers shall submit requisite information as per Annexure-VIB of GCC April-2022 (with latest correction slip), along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p>
1.1.3		<p>Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI of GCC April-2022 (Advance Correction Slip No.1). This shall be applicable for tenders having advertised value more than Rs.20 crore wherein eligibility criteria includes bid capacity also.</p>
1.1.4		<p>No Technical and Financial credentials are required for tenders having value up to Rs.50 lakhs.</p>

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1.1.5		<p>Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under:</p> <p>The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India or entity authorized by RBI to do so for the relevant date or immediately previous date for which rates have been published. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.</p>
1.1.6		Explanation for clause no.1.1.1 to 1.1.5 - 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.	<p>In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work.</p> <p>In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work.</p>
	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) of GCC April-2022, 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 propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3×0.2 * value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
	8.	In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.

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	9.	In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
	10.	Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
	11.	In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
	12.	If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.
	13.	In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
	14.	In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.
	15.	In case company A is merged with company B, then company B would get the credentials of company A also.
1.1.7		<u>The similar single work means:</u>
		Similar work shall mean any work as a whole or having component of supply, installation, testing and commissioning of Passenger Amenities items involving one or more of items furnished below: i) Train Indication system for Railway Platforms. ii) Coach Guidance system for Railway Platforms. iii) PC based announcement system for Railway Platforms. iv) GPS and GSM/ GPRS based display and publication systems in coaches. v) GPS based digital and / or analog clock systems for Railway Platforms vi) Public address system for inside coaches of Passenger Trains.
1.2		<u>Tenderer Credentials:</u> 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 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 list of works carried out in the past.
	(ii)	Certificates which may be an attested Certificate from the client, Audited Balance Sheet duly certified by the Chartered Accountant etc. regarding contractual payments received in the past.
	(iii)	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.
	(iv)	A copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as <u>Annexure-A</u> (In Chapter-VI). <u>In addition to this Annexure-A, in case of other than Company / Proprietary firm, Annexure-A (I) shall also be submitted by the each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. as the case may be.</u> Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.
	(v)	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.
	(vi)	(a) In case of any information submitted by tenderer is found to be false forged or

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		<p>incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for a period of up to five years.</p> <p>(b) In case of any information submitted by tenderer is found to be false forged or incorrect after the award of contract, the contract shall be terminated. Bid Security (EMD), Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of up to five years.</p>
1.3		Non-compliance with any of the conditions set forth therein above is liable to result in the tender being rejected.
1.4		Documents to be submitted along with tender: Please refer Para 14 of the Tender Form (Second Sheet) of GCC April-2022.
1.5		<p>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 favor of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.</p> <p>A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favor of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.</p> <p>Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.</p>
1.6		Employment/Partnership etc. of Retired Railway Employees: Please refer Para 16 of the Tender Form (Second Sheet) of GCC April-2022.
1.7		Rules & General Instructions:
	A	The Tender Document includes "Instructions to Tenderers", "Special Conditions of Contract (SCC)", "Technical Specifications & Requirements", "Tender Schedule" and "Annexure / Formats / Drawings, if any" together with any addendum and corrigendum issued. In case of contradiction between Tender conditions, instructions to the Tenderer, the General conditions of the contract and the special conditions of the contract, the latter will prevail.
	B	The submission of the Tender shall be deemed to have been done after careful study and examination of the Tender Document with full understanding of the implications thereof. Any clarifications required by the Tenderer shall be obtained from the Office of the Tender Inviting Authority on any working day during office hours.
	C	The Tenderer should read the conditions/instructions carefully and also see the schedule of works, technical specification etc. before submitting the offer and also ascertain site conditions and the magnitude of works involved.
	D	Conditional tenders will generally not be considered and are liable to be rejected. Railway however reserves the right to reject such tenders summarily without assigning any reasons whatsoever. The Railway also reserves the right to reject any special conditions stipulated by the Tenderer as considered unacceptable to the Railway. Only such special conditions/specifications stipulated by the tenderer/s, which are having nil financial repercussion and which have been specially approved by Railways in writing shall be deemed to have been accepted by the Railways and shall form part of the contract agreement. The tenderer/s conditions/stipulations which are at variance with the tender conditions/ codal provisions and not approved/accepted by Railways, shall be withdrawn by the tenderer/s.
	E	If it is found at any stage of the finalization of the tender or during actual execution of the work that the information furnished in this tender including clarification, is incorrect, the tenders are likely to be rejected. The Railway reserves the right to cancel the tender without assigning any reason.
	F	All the relevant documents shall be uploaded online in the space provided along with tender form as per terms and condition of tender.
	G	The charges have been fixed at Rs.200/- payable by the tenderer at the time of

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		submitting the Partnership Deed / Power of Attorney / Performance Bank Guarantee for scrutiny and legal advice.
1.8		Local Conditions:
		It will be imperative on each Tenderer to fully acquaint him with all the local conditions and factors, which would have any effect on the performance of the contract and cost of the work. The Railway shall not entertain any request for clarifications from the Tenderer regarding such local conditions. No request for change of price will be entertained after the offer is accepted by the Railway on account of any local condition or factor. The tenderer(s) shall inspect the proposed site of work and acquaint himself/themselves with the site conditions, working hours, layout of land, trees and shrubs that he/they will have to cut, type of strata likely to be met within the borrow pits, stacking space for materials, approach roads, path ways available etc. and all relevant items connected with the execution of the work. No claim shall be entertained for the contractor(s) making his/their own arrangements for approaches/approach road from outside Railway land and contractor(s) will bear entire expenses such as road taxes, payment for right of way, etc. to outsiders and for Construction of approaches/approach roads, etc.
1.9		General Instructions:
	A	No Counter conditions will be accepted to any of the clauses contained in the tender document. Any clause contrary to the Railway's Tender Conditions will be ignored and the offer will be evaluated as though the tenderer has accepted all the Railway's Clauses in TOTO.
	B	Railway's decision in regard to acceptability of Technical Suitability of the offer shall be final.
	C	As far as possible the Tenderer's bid should not have any condition or specification or assumption contrary to the provisions in these tender documents on which the Tenderer/s bid is based. Tenderer's Special conditions, not in conformity with the tender specifications/drawings are required to be listed separately with details of exact financial implications, if any. Railways may not take cognizance of conditions/variations from the tender documents or drawings etc. It needs to be emphasized that only such conditions/stipulations which are at variance with the tender conditions codal provision stipulated in the tender documents need be mentioned, in case Tenderer's choose to stipulate such special conditions taking into account the restrictions mentioned elsewhere in the tender document. Only such special conditions/specifications stipulated by the Tenderer's which have been specifically approved by the Railways in writing shall be deemed to have been accepted by the Railways and shall form part of the Contract Agreement. The Tenderer/s conditions/stipulations which are at variance with the tender conditions/codal provisions and not approved / accepted by Railways shall be withdrawn by the Tenderer/s.
		NOTE: OFFER NOT FULFILLING ABOVE CONDITIONS WILL BE SUMMARILY REJECTED.
1.10		System of Quoting Rates:
	A	The rates quoted for the tender by the Tenderer will be inclusive of all kind of taxes such as excise duty, service tax, sales tax, octroi, interstate tax, works contract tax, transport, loading, other incidental charges, unloading charges etc. or any Tax (after roll out of GST as per provisions made) wherever leviable. Octroi exemption certificates / forms for concessional Sales tax and any other statutory duties shall be issued by the Railway on demand in the name of contractor only, subject to this being permissible under prevailing relevant rules. <u>No additional payment will be made, if the octroi exemption certificate is not honoured by the concerned authorities.</u>
	B	The rates quoted by the Tenderer should be firm and no price variation clause will be acceptable.
	C	For the tenders due to open after roll out of GST – All the bidders / tenderers should ensure that they are GST compliant and their quoted tax structure / rates are as per GST Law.
	D	Tenderers will examine the various provisions of the Central Goods & Services Tax Act, 2017 (CGST) / Integrated Goods & Services Tax Act, 2017 (IGST) / Union Territory Goods & Services Tax Act, 2017 (UTGST) / Respective State's State Goods & Services Tax Act, 2017 (SGST) also, as notified by Central / State Govt. and 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.
	E	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.
	F	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

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		his/their bills under Reverse Charge Mechanism (RCM) and deposit the same to the concerned authority.
1.11		<u>Rates during Negotiation:</u>
		The Tenderer/s shall not increase his/their quoted rates in case the Railway Administration negotiate for reduction of rates, such a negotiation shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted will be binding on the Tenderer/s.
1.12		<u>Validity of Offer:</u>
	A	The tenderer shall keep the offer open for a minimum period of 60 days from the date of closing of tender. Within that period, the tenderer cannot withdraw his offer subject to the period being extended further if required by mutual agreement from time to time. Any contravention of the above condition will make the tenderer liable for forfeiture of his Bid Security (EMD).
	B	It is understood that after submitting his / their tender subject to the period being extended further if required by mutual agreement from time to time, he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to Railway. Should the Tenderer fail to observe or comply with the foregoing stipulation, the amount deposited as Bid Security (EMD) for the due performance of the above stipulation shall be forfeited by the Railway.
1.13		<u>Closing of Tender submission:</u>
		The tender cannot be submitted, beyond the day and time as described in NIT or as per corrigenda.
1.14		<u>Errors, Omissions & Discrepancies in the tender document:</u>
		Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.
1.15		<u>Rights of Railway to deal with Tenders:</u>
	(i)	The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders.
	(ii)	If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage.
	(iii)	If the tenderer(s) expire(s) after the submission of his / their tender or after the acceptance of his / their offer, the Railway shall deem such tender cancelled. If a partner of a 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.
1.16		<u>Acceptance of Tender, issue of LOA, Submission of Performance BG Bond and commencement of Contract by the successful Tenderer:</u>
		A letter of acceptance (LOA) of the offer shall be issued by the Railway Administration to the successful Tenderer that his offer has been accepted, on receipt of which he shall submit a Performance Guarantee (PG) bond as described in Clause No.2.3 of Chapter-II, Special Conditions of Contract and shall execute a formal Contract Agreement with the President of India acting through the Sr.Divisional Signal and Telecommunication Engineer / Divisional Signal and Telecommunication Engineer, Pune Division, Pune-411001 for carrying out the work according to terms and conditions of this tender including "General Conditions of Contract" of Railway and "Special Conditions / Specifications of this tender". Upon issuing of LOA the contract for the work shall be deemed to have been awarded to the Tenderer and accordingly the completion period will be reckoned from the date of issue of LOA irrespective of the date of signing of contract agreement subsequently.
1.17		<u>Signing of Contract Agreement:</u>
	A	The successful Tenderer shall be required to present himself or his duly authorized representative at the office of the Senior Divisional Signal & Telecommunication Engineer, 3rd Floor, DRM Office, R.B.M. Road, Near Hotel Sheraton Grand, Central Railway, Pune-411001 to execute the aforesaid Contract Agreement, within 15 days after receipt of notice that the said documents are ready.
	B	Failure to do so shall constitute a breach of the agreement effected by the acceptance of the Tender in which case, the Railway may determine that such Tenderer/s has/have abandoned the contract and there upon his/their tender and the acceptance thereof shall be treated as cancelled and the Railway shall be entitled to forfeit the full

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		amount of the earnest money and to recover the liquidated damages for such default, without prejudice to any other rights or remedies.
1.18		Commencement of work by Submission of Program for execution:
	A	The successful tenderer upon receipt of LOA shall commence the work by way of submitting a detailed time schedule for completion of work within the allowed completion period.
	B	The Contractor shall have a competent project team with adequate resources to execute the work so that the entire work is completed within the completion period.
	C	The Contractor is expected to have worked out a tentative program for execution of the work well before issue of "Letter of Acceptance", by Railway. Within 15 days of the date of issue of the LOA, contractor shall commence the work by way of submitting a Detailed Time and Activity Schedule for the execution of work aiming at completing the entire work within the stipulated completion time. The schedule shall thereafter be approved by the Engineer-In-Charge normally within 5 working days.
	B	Railway reserves the right to modify the activity schedule while approving the same as well as at any stage during execution if situation so warrants. Once approved, in the event of any slippage from the time schedule especially when resulting into time over-run of the work the contractor shall submit revised schedule duly justifying the circumstances without any delay. The revised schedule shall be approved by the Engineer-In-Charge only when considered justified in his opinion otherwise it will attract penal action on the contractor as per provision of this contract.
1.19		CHANGE IN ADDRESS:
		Any change in the address of the contractor shall be forthwith intimated in writing to the Railway. The Railway will not be responsible for any loss/ inconvenience suffered by the Contractor on account of his failure to comply with this.

CHAPTER-II

SPECIAL CONDITIONS OF CONTRACT

SPECIAL CONDITIONS OF CONTRACT

Name of work: Provision of train indicator, Coach indicator and other passenger amenities in connection with the work of "Provision of minimum essential amenities and Divyangjan Facilities at Valivade, Bhilawadi and Rukadi stations of Pune division".

Special conditions are to be read along with following important instructions/conditions and General Conditions of Contract (GCC).

2.0		<u>SPECIAL CONDITIONS OF CONTRACT:</u>
	2.0.1	Brief Scope of work: <u>MANDATORY NOTE:</u> All the RDSO specified materials / items, to be supplied from RDSO approved firms only and to comply with RDSO specification no. RDSO/SPN/TC/108/2019 Ver 1.0. or latest for IPIS System
	2.0.2	The Tender shall be governed by the following Special Conditions of Contract (SCC) and Technical specifications etc. (Chapter-III & IV) in addition to the Standard General Conditions of Contract of Railway (hereinafter called as GCC although meant for civil engineering works but will also be applicable to this work) with latest amendments. Where there is any conflict between the instructions to Tenderer, conditions of tendering, special condition of contract, Tender forms, Annexure etc. on one hand and GCC on the other, the former (SCC) shall prevail. Indian Railways Standard General Conditions of Contract (April-2022) issued by Railway Board & any subsequent modifications in GCC issued by Railway Board shall be applicable which are enclosed herewith the Tender.
	2.0.3	Any Special conditions stated by the Tenderer in the covering letter submitted along with the tender shall be deemed to be part of the Contract to such extent only as have been explicitly accepted by the Railway.
	2.0.4	These specifications / documents describe the material to be supplied, work to be Performed and the method of construction, for the complete installation in strict accordance with the drawings and specifications mentioned here and such instructions as may from time to time be given by the Railway. The contractor shall quote for the work giving all information after close scrutiny of the plans/ drawings and site survey. If contractor finds that some drawing/specification is missing from the tender document it shall point out immediately before the opening date of the tender. If this issue is raised after signing of the contract then Railways' decision shall be final about the drawings/ specifications for material and execution.
2.1		<u>Bid Security (EMD):</u>
	A	The requisite Bid Security (EMD) as specified in Tender Notice/E-NIT as per GCC will have to be deposited by the Tenderer with his tender offer at the time submission of his/their bid. The bidders will have to make payment towards Bid Security (EMD) against E-tenders through online payment (Payment Gateway) modes like net banking, debit/credit cards etc. available on website https://www.ireps.gov.in portal or it can be submitted as Bank Guarantee bond from a Scheduled Commercial Bank of India or as mentioned in tender documents/GCC. The Bank Guarantee bond shall be as per Annexure-VIA of GCC April-2022 and shall be valid for a period of 90 days beyond the bid validity period. In case, submission of Bid Security in the form of Bank Guarantee, then instructions given in GCC April-2022 & any subsequent modifications in GCC issued by Railway Board, shall be ensured. As per recent correction slip to GCC April -2022 i.e. Advance Correction Slip No. 11, Bid Security will be 2% of the estimated cost of the work (i.e. 2% of Advertised tender cost).
2.2	A	<u>Security Deposit:</u> Security deposit shall be applicable as per clause no.16 (1), 16 (2) and 16 (3) of Part-II of Indian Railways Standard General Conditions of Contract (April-2022) issued by Railway Board & any subsequent modifications in GCC issued by Railway Board shall be applicable which are enclosed herewith the Tender.
2.3		<u>Performance Guarantee:</u> Performance Guarantee shall be applicable as per clause no.16 (4) of Part-II of Indian Railways Standard General Conditions of Contract (April-2022) issued by Railway Board & any subsequent modifications in GCC issued by Railway Board shall be applicable which are enclosed herewith the Tender. As per recent correction slip to GCC April -2022 i.e. Advance Correction Slip

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		No. 11, the successful bidder shall submit the Performance Guarantee (PG) amounting to 5% of the original contract value and Additional Performance Guarantee as per clause 16(4)(h).
2.4		Location of the Site: This work is to be executed at Valivade, Bhilawadi and Rukadi stations of Pune Division.
		ANY ADDITIONAL INFORMATION ABOUT THE LOCATION OF THE SITE CAN BE KNOWN FROM RAILWAY TIME TABLE OR RAILWAY MAP.
2.5		Technical Specifications (* Wherever Applicable):
	A	The Stations/LC Gates/Site locations covered by this tender are located in both 25 KV AC Electrified Section & Non-Electrified section. The equipments and installation practices of signaling system will have to be in line with the requirement of AC Electrified section as specified in manual of instructions of installation and commissioning of S&T equipments in 25 KV AC Electrified section.*
	B	<p>The work to be carried out in accordance with Interlocking Plans for the stations/level crossing gate, issued by the Railways. These IP's are tentative and minor variation/alteration may take place. The Tenderer should be ready to carry out corrections / alterations / additions in design of circuits and other works arising out of these changes without any additional cost. The railway's decision in this regard will be final and binding.*</p> <ol style="list-style-type: none"> The work is to be carried out in accordance with IRS specification for RRI/Panel Interlocking system (S 36/87) with latest amendments. * Circuit designed by the Tenderer will have to be altered or modified as suggested by Sr. Divisional Signal and Telecom Engineer, Central Railway, Pune or his authorized representative to meet the safety requirements / specifications and Central Railway practices in vogue. Such alteration, modifications etc. will have to be carried out by the Tenderer, free of cost.* All the drawing shall be drawn on AutoCAD and the Tenderer should submit the original CD for all the drawings along with tracings, prints and plastic folders.* All the tracings shall be drawn on good quality "Gateway" brand 95 GSM tracing paper. No change shall be made in any of the approved drawings without permission of Chief Signal & Telecom Engineer or his Authorized representative.* All the drawing shall include the name of the work, as given by the Railways blocks, for signature of Railways officials and contractor.* The entire drawings hall is signed by the contractor or his authorized Representative.* All the drawing should be drawn as per the standard practice of Central Railway.* <p>Note: For circuit design, contractor will be required to authorize a person for designing the circuits. The name of such person should appear on all sheets with signature. The mistakes in circuit design will attract a token penalty over and above the penalty/L.D. as provided in GCC. The penalty shall be recovered at the rate of Rs.200/- per sheet, if the number of mistakes is above 2%. Decision of Railway about mistakes shall be final.</p>
	C	It should be specifically noted that some of the detailed drawing may not have finalized by the Railway & will therefore be supplied to the contractor as & when they are finalized on demand. No compensation whatsoever on this account shall be payable by the Railway Administration.
		No claim whatsoever will be entertained by the Railway on account of any delay or hold up of the work(s) arising out of delay in approval of drawings, changes, modifications, additions, omission & site lay out plan or detailed drawings & design & or late supply of such materials as are required to be arranged by the Railway or due to any other factor on Railway account.
	D	As per Railway Board Amendment No.94/CE.I/CT/53 dated 18.05.2007, If any plan / drawing is attached with the Tender Form, Rs.200/- per plan / drawing will be levied extra.
	E	As per CSTE CSTM's letter no. N/659/WM/CC/Tender Policy/Pt.I dated 07.05.2007, no claim for idle labour &/or idle machinery etc. on any account will be entertained; similarly, no claims shall be entertained for business loss or any such loss.
	F	The installation practices of all signalling gears should be as per the Signal Engineering Manual (New) and to suit the latest correction slips and C. Rly practices in vogue.
	G	Tenderers are advised to inspect the site and assess the actual requirement before quoting for the work.
	H	Before starting earth work/trenching/digging, the contractor shall obtain a copy of latest cable route plan or integrated cable route plan from Railway officials. The work should be carried out only after ascertaining that there is no infringement of the cable route shown in such cable route plans because of the proposed work. If required, joint survey with S&T department officials shall be carried out to mark the exact cable route. In case cables

		are damaged during execution of work, penalty shall be imposed as per Rly. Bd. letter no. 2021/Tele/5(2)/3-Part(1)(3425647) dt. 12.06.2023.
2.6		Contractor's scope of work: All the works shall be executed conforming to the specifications and drawings mentioned in Tender Schedule of work and as per Technical Specifications mentioned in Chapter-III & Chapter-IV. All the relevant clauses which are applicable to the items of schedule of material and works shall be adhered to.
2.7		Railway's scope of work:
	A	Provision of site for temporary accommodation for keeping contractor's men and material, subject to availability of site within Rly. Premises and construction for making temporary accommodation will have to be done by the tenderer at his own cost.
	B	Supervision of each and every activity.
	C	Supervision, during fault localization, joint testing and rectification.
	D	Co-ordination with other departments of Rlys. and arranging approval for track crossing, road crossing, cable across bridges, culverts etc.
	E	Accommodation for imparting training to Railway officials / supervisors.
2.8		Records & Registers:
	A	The Contractor/s 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 reasonable 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 Contractor/s, which should be seen and signed by the Contractor or his authorized representative on daily basis for compliance of instructions recorded therein for satisfactory completion of work.
	B	Site order Register: The Contractor/s shall properly sign in site order register, orders given by the Engineer or his representative or his superior officers and comply with them. The Contractor/s shall report the compliance to the Engineer in good time so that it can be checked.
	C	Labour Register: This register will be maintained to show daily strength of labour in different categories by the contractor/s.
	D	Daily progress register: It shall indicate daily progress of work done by the contractor shall be got signed at least once in three days from Engineer in token of acceptance. The format of the Register will be advised by the Engineer.
	E	Any other register considered necessary by the Engineer shall be maintained at site in which the representative to the Engineer and the Contractor/s or his/their authorized representative will have to sign. The registers, programs, charts etc. will be the property of the Railway.
2.9		Materials & Workmanship:
	A	All the materials and workmanship used in this work shall be of extremely good quality and high class in every respect and is expected to give trouble free service.
	B	The equipments/materials as per RDSO specifications are to be procured from the RDSO approved sources only. The guidelines stipulated for stores' procurement will hold good for procuring these items from RDSO approved sources.
	C	Equipment/material in the schedule as per IS specification shall be procured from BIS licensed firms only. In case there are no BIS licensed firms for the scheduled item, the equipment/material are to be procured from manufacturers of repute/their authorized dealers after approval of Engineer-in-charge before supply.
	D	Equipment/material in the schedule where RDSO/IS specification has not been stipulated, shall be procured from manufacturers of repute/their authorized dealers approved by the Engineer-in-charge before supply.
	E	All the materials should be strictly as per the Specifications indicated. All the materials to be supplied by the Tenderer are to be supplied at the nominated Consignee depot. The loading, unloading and transportation of these materials from the Depot to the site of work at a later stage will have to be done by the Tenderer at his own cost. Alternatively, if the site of work is ready and work is in progress, physically, the materials can be brought to the site directly. The security of the material brought to the site of work will remain with the Tenderer till the material taken over are duly erected and accepted by the Railway.
	F	Materials required to carry out this work if supplied by the Railways, will be issued at the nominated Consignee depot on specific requisitions by the Contractor and as per requirement consistent with the progress of works and/or progress of supply of fabricated materials to the Railway. The contractor will have to load, transport these materials to the site of work and unload at his own cost. Empty cable drums and balance materials after completion of work, if any should be returned back at the nominated Consignee depot.
	G	The cost of transit insurance required as per rules will be borne by the Tenderer.
	H	Cable laying work will be generally done according to the details of Cable Plan and instructions issued by Sr. Divisional / Division Signal & Telecommunication Engineer

		/ Engineer in-charge of the work. Whenever the dimensions of cable Trenches as mentioned in the Tender Schedule are not easily achievable due to terrain conditions, then payments will be made on a pro-rata basis, for the dimensions achieved.
2.10		INSURANCE OF MATERIALS AND INSTALLATIONS:
	A	The Contractor shall take out and keep in force a Policy or policies of Insurance for all materials including railways supply materials/equipment irrespective of whether used up in the portion of work already done or kept for the use in the balance portion of the work until such works are provisionally handed over to the Railways. For this purpose the works are deemed to have been provisionally handed over when completion certificate is issued.
	B	The contractor shall not be liable for losses/damages to the materials either used up in the portion of work done or his material kept for use at site, in consequence of mutiny, or other similar causes over which the Contractor has no control and which cannot be insured. Such losses or damages shall be the liability of the Railway and if required by the Railway, be made good by the contractor, at the cost of the Railway i.e. contractor shall not be liable for any damage to any part of the system during the complete period including AMC period, if the damage is due to mob, public agitation or any uncontrolled activity including natural calamities. But contractor shall safeguard all the materials/components from bad weather conditions.
	C	The contractor should, however insure the stores brought to site against risks in consequence of war and invasion as required under the Emergency Risk (Goods Insurance) Act in force from time to time.
2.11		INDEMNITY BOND / BANK GUARANTEE against security of Railway Material:
	A	The Contractor will have to furnish an Indemnity Bond for all the value of materials (Format for Indemnity Bond is enclosed as Annexure-F in Chapter-VI) for the Security of the Railway material issued to him.
	B	Indemnity Bond, if any, submitted by the Tenderer against the security of the material issued to him for execution of work will be released after commissioning of work and when all balance material is returned by contractor; i.e. after signing the final material statement for closing the contract. The security of the material brought to the site of work will remain with the Contractor, till commissioning of the complete structure and same is handed over to Railway's nominated representative of Engineer-in-charge.
2.12		Inspection:
	A	The Electrical Signalling materials, to be supplied by the Tenderer and as per RDSO's Specification/Drawing appearing in the critical list contained in Railway Board's letter no.74/RS(G)/379/2Pt. dated 04.03.1991 & 18.06.1991 will have to be procured from RDSO approved firms only and will be supplied duly inspected by RDSO irrespective of value. The list of critical signalling items is given below: (i) All types of signalling relays (ii) Block Instruments (iii) Axle Counter equipments (iv) Signal machines (v) Point Machines (vi) Colour light signal transformers (vii) Electrical signal lamps (viii) Voltage stabilizers and other power supply equipment (ix) Electric signal reversers (x) Signal roundels and lenses (xi) Electric lever lock and circuit controller (xii) Circuit controller (xiii) Electric key transmitter (xiv) Fuses, Fuse Block & Terminal blocks (PBT Type) (xv) Electric Point and lock detector.
	B	The Electrical Signalling materials, other than those included in the critical list of items mentioned above, to be supplied by tenderer and are as per RDSO's specifications/drawings will have to be procured from RDSO approved firms only and will be supplied duly inspected by RDSO/RITES if the total value of the item is more than Rs.5.00 Lakh as per Railway Board's letter no.2000/RS(G)/379/2 dated 06.09.2017.
	C	Inspecting agency of RDSO / RITES / CONSIGNEE for items to be supplied is given in schedule against each item.
	D	Signalling items not inspected by RDSO/RITES for any reason, will be inspected by the Consignee / Authorized Representatives of Railways.
	E	Whenever equipment/material as per IS specification in schedule are inspected by Authorized Representatives of the Railways/Consignee, the Tenderer will be required to furnish manufacturer's Guarantee Certificate along with test certificates in addition to his own warranty certificate.
	F	For equipment/material as per IS specification, if the consignee, after verifying all the documentary evidence, visual inspection, measurement of dimensions/key

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		electrical parameters as applicable and any other checks as per facility available with him, is not fully satisfied and if he considers necessary, he can direct the samples to be tested with approval of Engineer-in-charge, as per the specifications given in the schedule in a laboratory. The laboratory will be approved by Engineer-in-charge and shall be a BIS approved laboratory.
	G	All expenses towards test charges shall normally be borne by Railways. However, if the samples are found inferior when compared to stipulated specification/drawing, the test charges shall be borne by the contractor.
	H	All other equipment/material, where neither RDSO/IS specifications are stipulated, and which are to be supplied with consignee inspection shall be procured from manufacturers of repute/their authorized dealers approved by the Engineer-in-charge before supply. In such cases, if the tenderer is not able to furnish manufacturer guarantee certificate and test certificate for e.g. for items being procured through open market, the tenderer shall furnish his guarantee & warranty for these items.
	I	The Railway shall have full power to reject any material that it may consider to be defective or inferior in quality, workmanship or otherwise not in accordance with the Specification and the Railway's decision shall be final, even though they might have been inspected by RDSO/RITES. The Tenderer shall remove forthwith any such material rejected and replace them promptly at his own cost.
	J	Inspection Charges of RDSO and RITES will be borne by the Railways.
	K	The Tenderer shall furnish guarantee of materials/equipments supplied by him for a period of one year after commissioning for trouble-free performance. Any defects noted during this period will have to be rectified by him promptly at his own cost.
	L	On specific circumstances if due to delay in inspection by RITES/RDSO or any other unforeseen reason like transporters strike, strike in manufacturer's factory etc., the material to be supplied by the contractor is delayed; such material can be issued to the contractor on purely loan basis if available in the concerned depot. However, this will not be contractor's right to get material on loan. Railway reserves the right to refuse to give the material on loan. Any delay in giving material on loan by the railway or refusal should not cause any delay in progress of work and the contractor cannot escape from his responsibilities in such case. Material on loan should be given only in exceptional cases, if decided by site engineer. If the contractor fails to return such material, the cost of such material will be recovered from the contractor as per railway rules.
2.13		<u>Completion Period:</u>
	A	Time is the essence of this contract and time schedule shall be strictly adhered to. The entire work as per the Contract will have to be completed within <u>06 (Six) months from date of issue of Letter of Acceptance (LOA) on a progressive basis.</u> The Tenderer will be responsible for progress of work on progressive basis from the date of issue of acceptance letter. Since the progress of the work is critically related to the supply of material by the contractor, he will have to supply materials on a progressive basis, so that the work can be completed within stipulated time period.
	B	It should be clearly borne in mind that the works which are not dependent upon the receipt of material duly inspected by RDSO/RITES or on Railway's own share of works, are to be progressed and completed by the contractor well before the final date of completion to avoid accumulation of works towards the fag end. If for any unforeseen reason, the work is delayed on railway's account, and then suitable extension to the completion period shall be granted without liquidated damages.
	C	The Tenderer shall make his own arrangements at his own cost for all plant and machinery, equipments, tools, fuel & consumable stores and other facilities including spare parts required to ensure efficient methodical execution of the work and shall deploy sufficient technical, non-technical manpower and labour to complete the work within specified time to the entire satisfaction of Engineer in-charge. The rates quoted and accepted shall be deemed to be inclusive of all charges of such items. If, however, the plant and machinery/other facilities, equipments, and tools requisitioned by the contractor are not available in Railway's stock or the Railway decides not to supply the same for reasons whatsoever, neither the Railway shall be bound to arrange for the supply thereof nor will the Railway's inability to supply them be accepted as an excuse for delay in the completion of the works/or for any claims thereof.
2.14		<u>Maintenance Period:</u>
		12 (Twelve) months from the date of actual completion of work.
2.15		<u>Warranty:</u>
	A	The contractor shall warrant that everything to be furnished here under shall be free from all defects and faults in material, workmanship and manufacture and shall be the highest grade and consistent with the established and generally accepted standards for materials of the type ordered in full conformity with the contract specifications, drawings, or samples, if any and shall if operable, operate properly.
	B	The Contractor shall, if required, replace or repair the goods or such portion thereof

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		as is rejected by the Railway free of cost at the ultimate destination or at the option of the Railway and contractor shall pay to the Railway value thereof at the contract price and such other expenditure and damages as may arise by reasons of the breach of the condition herein, specified.
	C	All replacement and repairs that Railway shall call upon the contractor to deliver or perform under this warranty shall be delivered and performed by the contractor promptly and satisfactorily, if the contractor so desires the replaced parts can be taken over by him, or his representative in India for disposal as he deems fit within a period of three months from the date of replacement of goods / parts. At the expiry of this period, no claim whatsoever shall lie on the Railway.
	D	If the replacement or renewals are of such a character as may affect the efficiency of the system, the purchaser shall have the right to give the contractor within one month from such replacement or renewal notice in writing that test on completion will be carried out at his cost. Should such tests show that the plant sustains the guarantee in the contract; the cost of the tests shall be borne by the purchaser. Should the guarantees not be sustained, the cost of the tests shall be borne by the contractor.
	E	Until the final certificate shall have been issued, the contractor shall have the right to entry with permission of Railways, at his own risk and representatives, whose names shall have previously been communicated, in writing, to the purchaser at all reasonable working hours upon all necessary parts of the works for the purpose of inspecting the working and the records of the plant and taking notes there from and if he desires at his own risk and expense, making any tests, subject to the approval of the purchaser which shall not be unreasonably withheld.
	F	The warranty of the system/item shall start from the date of commissioning of that particular system/item.
	G	Generally the warranty shall be of 12 months from the date of commissioning of that particular system/item, however for items like EI and any other items, the warranty shall be for the period as defined in the RDSO specifications.
2.16		<u>Progress Reporting:</u>
		The Contractor shall submit the periodic progress reports at regular intervals regarding the status and progress of work to the Railways. The details and Performance of the report will mutually be agreed after award of the contract. Such reports shall be for daily manpower, equipment and plant development, weekly work progress and monthly progress review reports. All actions as directed by Railways, pursuant to such reports shall be promptly attended to by Contractor.
2.17		<u>Measurement Of Works:</u>
	A	Payments for the works shall be made in accordance with approved designs and drawings and measured in relevant units. The measurements will be made generally in accordance with standard engineering practice and in conformity with the General Condition of Contract. All the measurements taken shall be jointly recorded and signed by the contractor's and Railway's representatives in the measurement books. Bills shall be prepared on the basis of these measurement books.
	B	The contractor will obtain written approval of the supervision after completion of the various sub-items of each work mentioned in the Schedule wherever applicable).
	C	The contractor shall sign the measurement as a token of acceptance of the measurement entered by the supervisor in-charge of the work (wherever applicable).
	D	The contractor should ensure that measurement has been recorded for such work, which is not possible to measure subsequently after completion of the activity and shall remain hidden. For example:
	I	After trenching is done
	II	After RCC trunking is placed in trench and properly aligned.
	III	After the above is laid properly
	IV	After the earth is filled
	V	After brick/slab/capping is laid
2.18		<u>Terms of Payment:</u>
	A	Payment of on account bill for the Tendered work will be arranged by the Sr. Divisional Signal & Telecom Engineer, Engineer in-charge of the work through the associate Accounts Officer.

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	B	<p>For Supply items –</p> <p>(i) 80% of the accepted cost of material supplied will be paid when the materials are supplied subject to furnishing of Inspection certificate and receipt order by the nominated consignee.</p> <p>(ii) 10% of the accepted cost (in addition to the 80% released above) shall be paid after installation / erection of the particular equipment.</p> <p>(iii) The balance 10% of the cost of the material supplied for each station, shall be paid after commissioning of each station each station/installation.</p> <p>(iv) 100% will be paid for spares and for items, which are not required to be erected by the contractor, on receipt of the equipment and no loss certificate by the Consignee.</p> <p>(v) However, the balance payment can be release against bank guarantee of equal amount on the discretion of the competent authority, if commissioning is held up on Railway's account for a period of more than 3 months after the installation is tested and kept ready for commissioning by the contractor to the full satisfaction of the railways.</p>
	C	For the item of designing / installation / erection, 100% payment will be made after completion of the activity, acceptable to the Railways.
	D	<p>For mixed items where supply & erection / installation cost is taken together under Schedule, 70% of the accepted cost shall be paid on the supply of the item, 20% of the accepted cost shall be paid on the erection / installation of the item and balance 10% will be paid after completion of the work.</p> <p>Against such mixed items, excess quantity of material after completion of execution, if any, may be retained by the Railways at the discretion of Engineer-in-charge and in that case no payment beyond 80% (Eighty percent) shall be made to the contractor. The material and its quantity shall be treated as regular Railway material and shall be taken into store ledger of the concerned stores depot to be used for any purposes whatsoever. If the Engineer-in-charge does not want or contractor does not agree for this condition then the excess quantities will be returned to the contractor and Railway will recover payments made to him for the returned quantity.</p>
	E	On account / final payments as per above mentioned conditions will be made on the basis of measurements recorded in Measurement Book (MB) by the Consignee.
	F	Wherever the Central/State makes it obligatory for the Railway to deduct any amount towards sales tax, works contract tax or any Tax (after roll out of GST as per provisions made) same will be deducted in addition to the income tax remitted to concerned authority.
	G	Income tax as applicable on date or levied subsequently by the Government during the currency of the contract on the gross amount payable to the contractor will be recovered from all bills in terms of section 194(c) of the Income Tax Act, 1961 as introduced with Finance Act, 1972 unless the exemption certificate issued by the Income Tax Department is produced during the currency of the contract. Deduction of Income Tax from each contract bill will be made – @ 2% for Company / Partnership Firms and @ 1% for Non-Company (Individual).
	H	The Railways reserve the right to vary, if required, the quantity of each item of work / supply up to 25% at the same rate and on the same terms and conditions.
	I	The Railway reserves the right to split / delete certain items of the tender without assigning any reason.
2.19		MODE OF PAYMENT:
	A	Payment through RTGS/NEFT:
		Payment will be made through Electronic Fund Transfer system (RTGS/NEFT). Tenderer is requested to give their Bank Details in the enclosed PROFORMA as Annexure-C for making payment through RTGS/NEFT. Tenderer should upload/attach the scan copy of this PROFORMA, duly filled, signed and stamped at the time of submission of online tender (E-tender).
	B	Letter of Credit (LC):
	i	For all the tenders having advertised cost of Rs.10 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement.
	ii	This option of taking payment through Le arrangement has to be exercised in IREPS (Indian Railway Electronic Procurement System - the e-application on which tenders are called by Railways) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
	iii	The option so exercised, shall be an integral part of the bidder's offer.
	iv	The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.
	v	In case tenderer opts for payment through LC, following shall be the procedure to deal release of payment through LC:
	(a)	The Le shall be a sight LC
	(b)	The contractor shall select his Advising/Negotiating bank for LC The incidental cost towards issue of Le and its operation thereof shall be borne by the contractor.

	(c)	SBI, New Delhi, Main Branch will be the nodal branch for issue of LCs based on online requests received from Railway Accounts Units for tenders opened in financial year 2018-19. SBI branches where the respective Railway Accounts Office has its Account (local SBI branch) will be the issuance/reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.												
	(d)	The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the request of the contractor. The value of LC to be opened initially as well as extended thereafter shall be finalised by the engineer in consultation with the contractor on the basis of expected progress of work.												
	(e)	The LC terms and conditions shall inter-alia indemnify and save harmless the Railway from and against all losses, claims and demands of every nature and description brought or recovered against the Railways by reason of any act or omission of the contractor, his agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by Railways on this account shall be considered as reasonable compensation and paid by contractor.												
	(f)	The LC terms and conditions shall inter-alia provide that Railways will issue a Document of Authorisation after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.												
	(g)	The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorisation.												
	(h)	The Document of Authorization shall be issued by Railway Accounts Office against each bill passed by Railways.												
	(i)	On issuance of Document of Authorisation, a copy of Document of Authorisation shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorisation shall also be sent by Railway Accounts Office to Railway's bank (Local SBI Branch).												
	(j)	The contractor shall take print out of the Document of Authorization available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.												
	(k)	The payment against LC shall be subject to verification from Railway's Bank (Local SBI Branch).												
	(l)	The contractor's bank (advising bank) shall submit the documents to the Railway's Bank (Local SBI Branch).												
	(m)	The railway's bank (issuing bank) shall, after verifying the claim so received w.r.t. the digitally signed Document of Authorization received from Railway Accounts Office, release the payment to contractor's bank (advising bank) for crediting the same to contractor's account.												
	(n)	Any number of bills can be dealt within one I.C, provided the sum total of payments to contractor is within the amount for which LC has been opened.												
	(o)	The LC shall be closed after the release of final payment including P VC amount, if any, to the contractor.												
	(p)	The release of performance guarantee or security deposit shall be dealt directly by railway with the contractor i.e., not through LC.												
2.20		<u>Conservancy Cess Charges:</u>												
		In terms of Railway Board's letter no. F(x)I/95/1/1 dated 07.09.2021, Tenderer should note that the revised Conservancy Cess charges will be recovered from contractual bills as applicable depending upon the number of labour appointed by the contractor for completion of work. The number of labour appointed for such particular work will be certified by the Consignee / Concerned Supervisor and is to be sent along with Measurement Book (MB) for further processing. Conservancy cess charges as per following table will be deducted from the Contractor's running bills -												
		<table border="1"> <thead> <tr> <th>SN</th><th>Average number of labours or workman employed PER DAY</th><th>Conservancy Cess charges to be recovered PER MONTH</th></tr> </thead> <tbody> <tr> <td>1</td><td>1 to 5</td><td>Rs.159/-</td></tr> <tr> <td>2</td><td>6 to 10</td><td>Rs.312/-</td></tr> <tr> <td>3</td><td>11 to 25</td><td>Rs.785/-</td></tr> </tbody> </table>	SN	Average number of labours or workman employed PER DAY	Conservancy Cess charges to be recovered PER MONTH	1	1 to 5	Rs.159/-	2	6 to 10	Rs.312/-	3	11 to 25	Rs.785/-
SN	Average number of labours or workman employed PER DAY	Conservancy Cess charges to be recovered PER MONTH												
1	1 to 5	Rs.159/-												
2	6 to 10	Rs.312/-												
3	11 to 25	Rs.785/-												
2.21		<u>General:</u>												
	A	Price Variation Clause (PVC) shall NOT BE APPLICABLE to this tender.												
	B	All the consumables and sundry installation materials required for execution of this work like Nut and Bolts, Welding Rods, Sleeves, Lugs etc., and not listed as per the detailed schedule will have to be brought by the Tenderer at his own cost.												
	C	Cement & Steel for use in the works should be procured by the Tenderer at their own cost from the main producers /their authorized dealers /authorized stock-yards which should confirm to IS specification. Individual rates quoted by the Tenderer												

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		should be inclusive of cost of Cement / Steel wherever applicable.
	D	Cement shall of 43 grade Portland conforming to IS Specn. 8112 (latest) of L&T/ Birla/ ACC/ Raymond/ Jaypee/ Grasim/ Ambuja/ Lafarge/ Century make. The cement will be in bags and bear the following information in legible markings: (i) Manufacturers name, (ii) Regd. trade mark of manufacturer, if any, (iii) Type of cement, weight of each bag in Kgs. or nos. of bags / ton, (iv) Date of manufacture generally marked as week of the year/year of manufacture
	E	The Tenderer shall make his own arrangement for accommodation, for his staff during testing and commissioning period. Water for drinking purpose if available at the station will be given. However, Railways take no guarantee for this facility. Free power will be given for installation work including battery charging, wherever available. Non-availability of Power will not be a reason for the slow progress of work. If power is not available, the contractor shall make his own arrangement for portable Genset / electrical power.
	F	The Tenderer shall do no work that may interfere with train traffic until adequate protection has been arranged as per the instruction of the Site in charge.
	G	All the tools & Measuring Instruments, required for installation & Testing will have to be brought by the Tenderer at his own cost.
	H	The Railway Officers / staff will be associated with the Testing & commissioning of the work.
	I	Installation practices of all signalling gears should be as per the Signal Engineering Manual (New) and to suit the latest correction slips and C. Rly practices in vogue.
	J	The Tenderer having more than 20 labour, is required to obtain the labour license from the licensing Officer under Provision of Contract Labour (Regulation and abolition) Act 1970 read with Contract Labour (Regulation and abolition) Central Rules 1970. <u>They should obtain a proper and valid labour license for the concerned work from the concerned Asst. Labour Commissioner or licensing officer of the area and the photo copy of the labour license must be submitted to Railway for records. Failure to do so, will attract legal action against the Tenderer.</u>
	K	Tenderer should strictly follow the provisions of Employees Provident Fund (EPF) & Miscellaneous Provisions (MP) Act, 1952. In this connection, Tenderer is requested to obtain PF Code number and submit the details of the same to this office. Tenderer is also requested to submit the declaration to this office before passing of every bill that 'PF deductions, wherever applicable, have been made and deposited with the EPFO along with prescribed contribution'.
	L	The Tenderer has to issue identity card to each and every person employed by him and deployed for execution of the contract work at his own cost (Proforma enclosed as Annexure-D).
	M	EMPLOYMENT OF TECHNICAL STAFF: Tenderer shall employ following Qualified Engineers during execution of the allotted work: i. One Qualified Graduate Engineer when cost of work to be executed is Rs.200 lakhs and above , and ii. One Qualified Diploma Holder Engineer when cost of work to be executed is more than Rs.25 lakhs, but less than Rs.200 lakhs . Further, in case the contractor fails to employ the Qualified Engineer, as aforesaid in Para 85 above, he, in terms of provisions of Clause 26A.2 to the General Conditions of Contract, shall be liable to pay an amount of Rs.40,000/- and Rs.25,000/- for each month or part thereof for the default period for the provisions, as contained in Para (i) and (ii) above respectively.

2.22	A	<p>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.shramikkalyan.indianrailways.gov.in. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The registration/updation of portal shall be done as under:</p> <p>(a) Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan Portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration on the portal within 7 days of receipt of such request.</p> <p>(b) Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LOAs issued in his favour.</p> <p>(c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LOA) / Contract Agreements on Shramikkalyan portal within portal within 15 days of issue of any LOA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LOA filled by contractor within 7 days of receipt of such request.</p> <p>(d) After approval of LOA by engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on Shramikkalyan Portal on monthly basis.</p> <p>(e) It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period.</p>
	B	<p>While processing payment of any 'On Account bill' or 'Final bill' or release of 'Advances' or 'Performance Guarantee / Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan Portal at www.shramikkalyan.indianrailways.gov.in till _____ Month Year".</p>
2.23		<p>As per CCE's vide letter no-N.705/Telecom Policy-Eligibility Criteria for Pass.Amm.Wks/Rev-1 dated 20/09/2018, the points given below should be followed mandatorily.</p>
	A	<p>The original equipment manufacturer (OEM) for the concerned equipment/ systems being tendered for, is borne on the Approved or Developmental list of vendors of RDSO. The OEM(s) shall give an undertaking that they will support availability of spares and /or software/ firmware including services for at least 7 years beyond the date of opening the Tender so that, considering 1 year time for award of contract, commissioning of system and 1 year post commissioning warranty period, about 5 years support will be available from the OEM(s) after expiry of warranty period.</p> <p style="text-align: center;">OR</p>
	B	<p>Authorized agency certified by the respective OEM(s) for supply, installation and commissioning of the concerned equipment/ systems being tendered for. The OEM should be borne on the Approved or Developmental list of vendors of RDSO. To this effect, the prospective bidder must have MOU(s) executed with the respective OEM(s) before opening of the tender, which shall include a clause to ensure that the OEM(s) shall give support for availability of spares and/or software/ firmware including services for at least 7 (seven) years beyond the date of opening the tender so that, considering one year time for award of contract, commission of systems and one year post commissioning warranty period about five years support will be available from the OEM(s) after expiry of warranty period.</p> <p>The MOU shall also incorporate a clause that OEM's authorized technical inspector shall carry out pre-commissioning inspection for the work at all the sites and certify that the material used is of proper quality, installation and configuration etc. of the system are proper and technical documentation has been supplied with the system.</p>
2.24		<p>As per Specification No. RDSO/SPN/TC/108/2019, Ver.-0.0 1) The tenderer must attach declaration and certificate to comply with the Functional requirements of the system as per clauses 4.2 "Hardware and software of IPIS of the different vendors shall be interoperable. Addition of any new device of any approved vendors shall require configuration of IP in the network and the new device should run in the existing LAN network" and 4.3 "The software shall be designed as per Annexure-A (protocol) so that software shall be independent of the hardware and interoperable with different vendors" as per RDSO/SPN/TC/108/2019 ver.0 effective from 07.02.2020. (for items having this specification) for inter- operability.</p>
2.25		<p>Tender BID, Declaration Certificate as per item no 2.23 (A) & (B) should be submitted with the Authorization letter from the OEM & in absence of these the BID will be rejected.</p>

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2.26		<u>Appendix To Special Conditions Of Contract:</u>
	A	Divisional Signal & Telecom Engineer - I / Pune will be the Engineer in-charge of the work.
	B	Senior Divisional Finance Manager / Pune will be the Associate Finance Officer.
	C	Senior Section Engineer (Telecom) Pune will be the nominated depot and Consignee for the material.
	D	The Engineer in charge of the work will nominate the Field Supervisor.

CHAPTER-III

TECHNICAL SPECIFICATIONS AND REQUIREMENTS FOR SUPPLY OF MATERIAL

1. Smart LED TV display unit 55 inch 4K ultra HD (Schedule Item no. 8)

Display Panel	Diagonal Size	Class	55
		Measured	54.6
	Resolution		3,840 x 2,160 (16:9)
	Brightness (Typ.)		500 nit
	Orientation		Landscape/Portrait
	Haze		25%
	Contrast Ratio (Typ.)		4,000:1
	Type		VA
	Active Display Area		1,209.6 (H) x 680.4 (V)
	Pixel Pitch (mm)		0.315 x 0.315
	Color Gamut		NTSC 72%
	Operation Hour		24/7
Connectivity / Sound	Input	Video	DP 1.2 (1), HDMI 2.0 (3)
		Audio	N/A
		USB	USB 2.0 x 2
		Tuner	N/A
	Output	Video	N/A
		Audio	Stereo mini Jack
	WiFi / BT		O/O
	External Control		RS232C (In/Out), RJ45
Mechanical Spec	Speaker		10W 2ch
	Dimension (mm)	Set	1,237.9 x 708.8 x 28.5
		Package	TBD
	Weight (kg)	Set	TBD
		Package	TBD
	VESA Mount		200 x 200
	VESA Mount Screw (Min~Max)		M8, 12~14mm
	Bezel Width (mm)		11.5 (Even)
Features	Key		UHD Signage with Built-in MagicInfoS10, SSSP 10.0
	Internal Player	Operating System	Tizen 7.0
		Processor	CA73 1.6GHz Quad-Core
		Storage (FDM)	16GB (10GB available)
	Special	H/W	2nd Gen. B2B Design Center IR Temperature Sensor Ambient Sensor Auto Level Wi-Fi (2.4/5.0GHz dual) & BT
		S/W	Signage New Home Workspace (Microsoft371/VMWare/RDP) Custom Home Auto Source Switching & Recovery Dicom Simulation Mode Director Mode SmartView+ Upgradable Web-Engine Tizen Enterprise Platform Video Conference Solution Smart Calibration
Certification	Safety		60950-1/62368-1
	EMC		Class B
	Environment		ENERGY STAR 8.0, EPEAT
	IP Rating		IP5x
	Security		802.1 x (WPA2 Enterprise) : EAP-TLS, EAP-TTLS, EAP-PEAP

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Power	Power Supply		AC 100 - 240 V, 50/60 Hz
	Power Consumption	Max[W/h]	TBD
		Typical[W/h]	TBD
		Sleep mode	less than 0.5W
Operating Condition	Temperature		0°C~ 40°C
	Relative Humidity		10~80%
Accessories	Included		Quick Setup Guide, Warranty Card, Power Cord RS232C (In) Gender Remote Controller & Batteries
	As per site requirement and as per consignee's instruction	Stand	STN-L4355C
		Mount	WMN-B50SC
		Specialty	TBD

Make: LG/SONY/SAMSUNG**2. Maintenance console (Schedule Item no. 13)****Processor**

Intel® Core™ 7 processor 13620H or higher/ AMD RYZEN 7 or higher (4700U)

Operating System

Windows 11 Home Single Language, English

Video Card

Intel® Graphics /Dedicated Graphics 4/6 GB

Monitor

27-inch or higher FHD (2560x1440) Anti-Glare Narrow Border AIT Infinity Non-Touch Display

Memory *

32 GB: DDR5, 3200 MT/s

Storage

1TB M.2 PCIe NVMe Solid State Drive (SSD)

Microsoft Office

Microsoft Office Home and Student 2021

Security Software

McAfee LiveSafe 1-year / Similar

Support Services

3 Year Basic Onsite Service after remote diagnosis with Hardware-Only Support

Keyboard and Mouse

Wireless Keyboard and Mouse

Ports

3 USB 3.2 Gen 1 ports with Power on/Wake-up support

1 USB 3.2 Gen 2 port with Power Share

1 USB 3.2 Type-C Gen 2 port (Side)

1 HDMI-out 1.4 / HDCP 1.4 port

1 HDMI-in 1.4 / HDCP 1.4 port

1 RJ45 Ethernet port

1 Universal headset jack

1 power-adaptor port

Slots

1 M.2 2230/2280 slot for PCIe solid-state drive

1 M.2 2230 slot for Wi-Fi and Bluetooth combo card

1 SD-card slot

Wireless *

Intel® Wi-Fi 6E AX211, 2x2, 802.11ax, Bluetooth® wireless card

Generic Name: All in one PC

Make: HP/ Dell/ Lenovo/ASUS

CHAPTER-IV

TECHNICAL SPECIFICATIONS AND REQUIREMENTS FOR EXECUTION OF WORKS

4.1		Specifications and requirements for the execution of work
	A	Tenderer is required to study the geographical conditions and the system proposed thoroughly.
	B	In case any item and/or accessories which are required for successful commissioning of the system but not covered in the tender schedule and item specifications of the tender document, then the contractor must arrange for such items and accessories at his own cost.
	C	The items of the tender schedule having RDSO's specifications unless otherwise mentioned shall be conforming to various clauses of the aforesaid specifications and shall fully comply the scope of work.
	D	All the materials and workmanship used in this work shall be of extremely good quality and high class in every respect and is expected to give trouble-free service.
	E	Equipment /material in the schedule as per IS specification shall be procured from BIS licensed firms only. In case there are no BIS licensed firms for the schedule item, the equipment/material are to be procured from manufacturers of repute/their authorized dealers after approval of Engineers-in-charge before supply.
	F	Equipment/material in the schedule where RDSO/IS specification has not been stipulated, shall be procured from manufactures of repute/their authorized dealers approved by the Engineer-in-charge before supply.
	G	All the execution work shall be done as per extant practices on Central Railway, site conditions and instructions of the site in-charge nominated by Railways.
	H	The Contractor shall not execute the work that may interfere with train traffic until adequate protection has been arranged as per the instructions of the site in charge.
	I	Contractor will himself be responsible for the safety of his personnel during execution of work.
	J	All the constituents of the subject work unless otherwise mentioned shall be conforming to various clauses of the aforesaid specifications/ drawings and shall fully comply with the scope of work.
	K	All the execution work shall be done as per extant practices on C. Railway, site conditions and instructions of the site in-charge nominated by Railways.
	L	Railway will not be responsible for making payment for any type of compensation. The Contractor shall make his own arrangement for accommodation for his staff during execution, testing and commissioning period. Water for drinking purposes if available at the station will be given. However, Railways take no guarantee for this facility.
	M	Power supply will be given for installation work including battery charging, wherever available. Non-availability of Power will not be a reason for the slow progress of work. If power is not available, the contractor shall make his own arrangement for portable Genset /electrical power.
	N	During testing and commissioning of the installation, the contractor's engineers will be available at site for testing and commissioning and for doing any wiring alterations which will be required during testing and commissioning.
	O	The various clamps, fixtures and all other required hardware shall be duly powdering coated rust free and shall being consultation with site in-charge.
	P	The contractor will be responsible for maintenance of items supplied by him for a period of 12 months from the date of commissioning.
	Q	Contractor should ensure that sufficient number of labors are employed during laying work & under no circumstances the cable will be dragged in the trench. The cable should be laid gently on a bed of sand of height approximately 1 inch.
	R	All the data of testing should be tabulated in a Performa and handed over to the site engineer.
	S	The equipment which are declared as end of life by OEM shall not be procured and a suitable replacement equipment to be procured, duly intimating the consignee of the material before supply.
	T	A checklist for commissioning of the equipment shall be jointly signed by the contractor's representative, Site in charge and OEM representative for satisfactorily installation and commissioning of the equipment's being installed.
	U	Work is to be carried out in strict compliance with the tender conditions and RDSO

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		Guidelines & Engineer In- Charge. The tenderer should be ready to carry out alterations/additions in installation of Auto announcement, PA System and other works arising out of these changes without any additional cost. The Railway's decision in this regard will be final and binding. Work will be carried out in accordance with the technical requirements of the Tender. Wherever Specifications are not indicated, work will be carried out as per standard practice on this Railway and instructions of Engineer in charge.
	V	Racks is used for installation of Monitor, CDC/PDC, UPS etc. in control room, key board /mouse try shall be provided separately and movable in/ out. Bottom panel shall be with gland plate for cable entry. Internal wiring is to be done in D channel with suitable size. Power supply shall be connected to power supply strip & impeller blower. On earth strip, earth of various equipment shall be connected.
	W	Addition of new trains and slogans in CDC/PDC shall be done free of cost during the entire warranty period of the system.
	X	The existing system shall be completely dismantled, and all the released materials shall be transported without damage to the depot of nearest in- charge SSE/Tele by the contractor after commissioning of the work.
	Y	Onsite training shall be provided to the Railway staff (Technical and commercial) which shall include complete software and hardware installation and edit, modify, add & delete of train data as & when required.
	Z	Installation of Earthing as per RDSO specification/manual/drawing and earth lead, extend to exchange through earth bus bar. Brisk chamber to be prepared surrounding Earth. After installation earth reading to be recorded.
4.2		<u>Specifications and requirements for the execution of cable laying and other works</u>
	A	The power supply cable as well as communication cable shall be laid as per route given by site engineer of railways with proper fixing along with the walls, roof girders etc. This also involves laying the power supply cable and communication cable through 1" diameter PVC pipe of reputed brand only with all required accessories like bends, joints etc.
	B	It shall be the responsibility of the contractor to ensure that the entire length of cable is tested before and after laying to ensure that the cable is in healthy condition. This testing should be done in presence of Railways representative at site and certificates jointly signed and submitted.
	C	During the work, if cables are provided through walls or through trough made in wall then the shall contractor repair the walls properly. For the work of cabling through walls proper casing and capping is to be provided and in no case will cables be left hanging or exposed.
	D	At crossings through floor/road/platform the contractor shall repair the broken floor/road/ /platform at his own cost after cable laying is completed.
	E	Contractor should ensure that a loop of appropriate length of cable is kept at all floor/road/platform crossings & at cable ends near DP's and joints.
	F	All the cables laid in and around proposed location premises as well as in and around area should be properly covered by means of proper casing and capping. In no case cables be left hanging or exposed.
	G	At all crossings contractors will ensure that work is carried out strictly in presence of Railway's representative and no safety measures are interfered.
	H	Laying and drawing of Train indicators, PA and power cable as per RDSO specification. Wiring of the communication cable shall be done through the PVC/HDPE duct/pipe separately in covered area. The PVC pipe shall be properly fitted with the wall / roof / floor of the platform. Termination of the data cable shall be done by using proper terminal strips. The communication cable from roof to the display unit shall be taken inside the hanging GI pipe. No loose wire/exposed termination wires etc. shall be visible from the display.
	I	In open area, laying of power cable and Data cable in HDPE duct shall be laid in the trench, Trench shall be re-filled with excavated soil, cement concrete and restoring the top surface to its original condition with smooth finishing with removed tile/slabs with cementing work.
	J	The power cable, Data cable / Twin core cable should be laid along with the metallic structure of the roof of the platforms and FOB's and walls of the station building. Suitable metallic clamps shall be fixed at regular intervals (not more than 5 mtrs.) to hold the cable along with the metallic structures/ girders to avoid any sagging of the cable all fixing material provided by vendor.

CHAPTER-V

SCHEDULE OF WORK

Tender Schedule

Name of Work - Provision of train indicator, Coach indicator and other passenger amenities in connection with the work of "Provision of minimum essential amenities and Divyangjan Facilities at Valivade, Bhilawadi and Rukadi stations of Pune division".

SN	Description of Item	Unit	Qty.	Rate in Rs.	Amount in Rs.
1	Supply of Double Faced Coach Guidance Display Boards as per RDSO/SPN/TC/108/2019 Ver 1.0 or latest. (Inspection by RDSO)	Nos.	111	12524.50	13,90,219.50
2	Installation & commissioning of LED based double faced display board in open area, includes supply & installation of 100mm GI pipe, erection & all material required etc as per specifications using OFC and ring network. (Inspection by Consignee)	Nos.	93	5761.90	5,35,856.70
3	Installation & commissioning of LED based double faced display board in covered area with all type of hardware required with proper size clamps & fixtures as approved by Railways using OFC and ring network. (Inspection by Consignee)	Nos.	18	2499.14	44,984.52
4	Supply of LED based Single faced At a Glance display board as per RDSO's Specification No.RDSO/SPN/TC/108/2019, Ver 1.0 or latest. Suitable clamping arrangement and all consumable materials including steel frame to be supplied by the contractor. (Inspection by RDSO)	No.	4	108018.28	4,32,073.12
5	Installation and commissioning of LED based At a glance display board as per instruction of site incharge. All fitting materials are to be supplied by the contractor. (Inspection by Consignee)	No.	4	10760.18	43,040.72
6	Supply of Single line double faced Train Arrival/Departure Display Boards as per RDSO specification RDSO/SPN/TC/108/2019Ver 1.0 or latest. (Inspection by RDSO)	Nos.	2	167997.59	3,35,995.18
7	Installation & commissioning of Single line double faced Train Arrival/Departure Display board. This includes all required accessories required including hanging structure for fixing arrangements to commissioning the item. (Inspection by Consignee)	Nos.	2	10413.07	20,826.14
8	Supply and installation of 55 inch 4K ultra HD smart LED TV display unit as per specification attached as annexure. (Inspection by Consignee)	Nos.	3	58995.57	1,76,986.71
9	Supply of Central Data Controller (CDC) units with central Data Switch (CDS) alongwith all software vide spec no:-RDSO/SPN/TC/108/2019, Ver 1.0 or latest. (Inspection by RDSO)	Nos.	2	435266.47	8,70,532.94
10	Installation & commissioning of Central Data Controller (CDC) units with central Data Switch (CDS) alongwith all software vide spec no:-RDSO/SPN/TC/108/2019Ver 1.0 or latest using OFC and ring network. (Inspection by Consignee)	Nos.	2	6594.95	13,189.90
11	Supply of Platform Data Controller (PDC) as per RDSO/SPN/TC/108/ 2019 Ver 1.0 or latest. (Inspection by RDSO)	Nos.	5	28809.50	1,44,047.50
12	Installation & commissioning of Platform Data Controller (PDC) as per RDSO/SPN/ TC/108/ 2019 Ver 1.0 or latest using OFC and ring network. (Inspection by Consignee)	Nos.	5	2622.08	13,110.40

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13	Supply of maintenance console as per specification attached as annexure. (Inspection by Consignee)	Nos.	3	58519.10	1,75,557.30
14	Supply of power cable 2.5 Sqmm 3 core as per RDSO's Specification No. RDSO/SPN/TC/108/2019, Ver 1.0 or latest. (Inspection by Consignee)	Mtr	3700	82.61	3,05,657.00
15	Supply of STP (Shielded Twisted Pair) CAT-6 cable with braiding for networking from Lucent or Molex or DAX or Finolex or Polycab make (1 Box = 305 Mtrs). (Inspection by Consignee)	Mtr	3965	38.18	1,51,383.70
16	Laying & drawing of communication/ power/ data cable through 1" PVC conduit pipe. This includes fixing of pipe with all accessories as required as per site condition. (Inspection by Consignee)	Mtr	7665	29.25	2,24,201.25
17	Supply of conduit pipe size 25mm dia 2 mm thickness and 3 mtrs standard length with ISI mark from Astral, Supreme or Garware make. (Inspection by Consignee)	Mtr	700	24.69	17,283.00
18	Fixing of PVC conduit pipe on wall, bridges, platform shed complete with 'U' clamps and necessary fixture screws etc. as per route given by site engineer of Railways. (Inspection by Consignee)	Mtr	700	5.25	3,675.00
19	Removal of paver blocks/ tiles and Cutting of trench across on platform for a depth of 15 cm & width of 15 cm after removal of paver blocks /tiles with marble cutting machine & filling the trench after laying the cables & restoring the surface with original tiles/ paver blocks. (Inspection by Consignee)	Mtr	800	63.41	50,728.00
20	Supply of HDPE duct 50mm dia, inner dia 42mm and wall thickness 4mm, permanently lubricated etc. supplied from TEC approved sources. (Inspection by Consignee)	Mtr	5000	42.66	2,13,300.00
21	Laying & fixing of HDPE duct for protection of cable in trenches or roof wall etc as per route given by site Engineer of Railways. (Inspection by Consignee).	Mtr	5000	6.18	30,900.00
22	Supply, installation and commissioning of On Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor Mounted Type Rating of UPS:5.0 KVA, Indicative Backup time: 60 Minutes. This includes external battery as required to cater the back uptime. Make: APC, Microtek, Luminous, Champion. (Inspection by Consignee)	Nos.	1	63567.39	63,567.39
23	Supply of On-Line UPS with isolation transformer suitable for single phase AC input & single phase AC output, Floor mounted type with SNMP module. Rating of UPS 3.0 KVA, indicative Back-up time :120 minutes, This includes external battery as required to cater the back uptime. Make:- APC, Microtek, Luminous, Champion. (Inspection by Consignee)	Nos.	2	90502.59	1,81,005.18
24	Supply of High power two tone PA Amplifier capable of delivering 200 watts output power from each zone total 400 watts of Model TZA - 4000EM of make Phillips or Yamaha or Bosch make only. (Inspection by Consignee).	Nos.	1	14652.71	14,652.71
25	Supply of column speaker Ahuja make AC 20T or similar model of Philips, Bosch. (Inspection by Consignee).	Nos.	21	1261.12	26,483.52

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26	Supply of Reflex horn speakers Ahuja make model UHC 30XT or similar model of Hi-Tune, Bosch. (Inspection by Consignee).	Nos.	18	1261.12	22,700.16
27	Fixing of column & horn type speakers in covered area with all type of hardware required with proper size clamps & fixtures etc. as approved by Railways. As per instruction of Engineer at site. (Inspection by Consignee).	Nos.	11	512.95	5,642.45
28	Installation of column & horn type speakers where covered platform is not available. The same is to be fixed on 3" GI pipe low grade IS specification no. 1239 of 1992 with latest amendment. Fixing of equipments with hood includes supply of bracket for housing speaker, GI pipe and cement etc. with complete erecting and installation of GI pipe for Horn speakers. As per instruction of Engineer at site. (Inspection by Consignee).	Nos.	28	3657.89	1,02,420.92
29	Supply of twin core shielded cable two standard colour, 2 cores 24 strand copper conductors, each strand of 0.20 mm, (24/0.20 mm) as per IS Specification No.694/1900, PVC insulated copper conductor in over all PVC Jacket from reputed make like Delton or Finolex or Asian or network or Lucent or Polycab. (Inspection by Consignee)	Mtr	2650	20.65	54,722.50
30	Laying & drawing of PA cable through 1" PVC conduit pipe along the walls/ girder/ bridges/ platform shed etc. as per the approved plan and instruction of site engineer of Railways. (Inspection by Consignee).	Mtr	2650	3.82	10,123.00
31	Supply of Armoured Optical Fiber Cable, 12 Core, Single mode armoured. Make: Polycab, FINOLEX or similar. (Inspection by Consignee)	Mtr	1500	34.71	52,065.00
32	Supply of 12 port LIU, 19-inch rack mountable as per following specification: a) It should have 12 SP type ports for termination of SM optical fibres. b) It should be rack mountable with 1U height. c) It should be equipped with front managed saddle for jumper/patch cord management. d) It should have 12 SC termination. e) It should be equipped with adequate nos. of splicing trays to splice 12 fibres. f) It should have proper rubber grommet for cable protection and to minimize dust build up. g) It should be fully loaded with all the accessories for splicing and termination of fibres. h) It shall be of reputed make like D-Link or 3M or Digilink or Molex make or similar. (Inspection by Consignee)	Nos.	10	6037.47	60,374.70
33	Installation & commissioning of 12 port LIU with all accessories and shall be used for terminations of optical fibers into the splice trays supplied with it, it shall be installed inside the 19 inch rack using all required fixing/ installation material like nuts, bolts, screws and cable ties etc. as per requirement. The splice trays shall be placed and secured into the LIU after splicing. The SC terminations shall be fixed and secured after splicing of the pigtailed into the LIU. It shall be ensured that the movement of the trays is easy and free of any obstructions. (Inspection by Consignee)	Nos.	10	890.17	8,901.70
34	Supply and installation of wall mounting 9U 19" deep rack make VALRACK or similar complete with assembly. (Inspection by consignee)	Nos.	5	4880.40	24,402.00

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35	Supply & installation of 24U rack with 19 inch standard dimension, front glass door with lock and two key, with rack fixing multipoint AC power strip, cable organiser with wall fixing screws. Make: TrippLite, APC, Rackom or similar. (Inspection by Consignee)	Nos.	1	22507.11	22,507.11
36	Supply of RJ-45 Jack modules (male) Suitable for UTP Cat_6/Cat_5 cable systems. (Inspection by consignee)	Nos.	300	5.76	1,728.00
37	Drawing of Optical Fiber Cable and any other cable in already laid HDPE pipe/FRP tray. (Inspection by Consignee).	Km	1.5	11557.30	17,335.95
38	Splicing/ dropping/ termination of each fiber/pigtail in LIU/ IO box/ terminal joint through fusion splicing for termination of OFC cables. The fibers terminated shall be tested and test report (hard copy and soft copy) shall be submitted to the Railways site in-charge for records. Each fiber shall be properly marked with necessary ferrules/ tags, as per following specification: i) The optical fibre cables shall be entered in to the rack through cable entry and using the cable guides. ii) The loosened ends of the fibres and pigtails shall be properly prepared for termination in to the already fixed LIU. iii) Each of the fibre shall be spliced with a pigtail by the method of fusion splicing using a Fusion Splicing Machine of standard reputed make. The splicing shall be done carefully by a skillful person. iv) The splices shall be carefully placed and well secured in the splice trays of the LIU. v) Each fiber/ pigtail shall be properly marked with necessary ferrules/ tags. vi) The extra length of the fibers / pigtails shall be coiled and placed and secured with cable ties. vii) The optical connectors of the pigtails shall be placed into the patch panel as per the numbering of fibers. viii) All of the terminated fibers shall be tested with OTDR and test report (Hard copy and Soft copy) shall be submitted to the Railways site In-charge for records. (Inspection by Consignee)	Nos.	96	127.42	12,232.32
39	Supply of fiber optic patching cord LC-FC/FC-FC/LC SC as per site requirement. Make of 3M or Sterlite or Finolex or Raychem or similar. (Inspection by Consignee)	Nos.	30	719.80	21,594.00
40	Supply of Media converters with one Fiber port (SC connector) and four Ethernet ports, supporting port isolation and with built in AC Power supply. Make: RAD, ANDA Telecom, ZYXEL. (Inspection by Consignee)	Pair	6	4808.18	28,849.08
41	Supply of hot dipped galvanised perforated type cable tray of size 150 x 75 mm made of 16 SWG (1.6 mm thick) GI sheet necessary coupler plates & fixing material. (Inspection by Consignee)	Mtr	1000	351.03	3,51,030.00
42	Fixing & erection of hot dipped galvanised perforated type cable tray with necessary fixtures & accessories as required at site for execution of work. Work as per instruction of incharge at site. (Inspection by Consignee)	Mtr	1000	75.38	75,380.00
43	Supply of RJ-45 UTP patch cord of 7 feet length from Krone or Trendnet or D-link make or similar. (Inspection by Consignee)	Nos.	30	46.45	1,393.50

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44	Supply of 6 Way Power Trip Spike Guard Universal Socket with No. of Sockets - 5 Pin 6 Amp.: 4 nos, No. of 6 Amp Switches: 3 nos, No. of cores in the cable: 3 nos (2.5 sq.mm), Length of cable with Extension Box: 3 Mtr, ISI Market Socket, Input Plug Rating: 6 Amp, No. of pin in the input plug: 3nos, Power on indicator available. Make: Anchor or Philips or Schinder or similar. (Inspection by Consignee).	Nos.	6	404.84	2,429.04
45	Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in normal soil/strata , conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid in trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions proportionate payment will be made as per procedure. The work shall be done as per the extant practice on Central Railway and instructions of Railway Engineer at site. (Inspection by Consignee)	CuM	645	343.38	2,21,480.10
46	Excavation of cable trench as per cable route plan, 1 mt. deep and 300mm wide along side the track in hard soil , conforming to distances as per cable route plan and refilling. This work includes covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by stones/ bricks, clearing of route, bushes etc. The work shall be done as per the extant practice on Central Railway and instructions of Railway Engineer at site. In case depth of trench is not achievable due to site conditions proportionate payment will be made. (Inspection by Consignee).	CuM	90	579.38	52,144.20
47	Wherever depth of 0.5 m cable trench is not feasible cable shall be protected as under:- Preparation of cement mixture 1:3:6 with contractor's own materials and spreading cement concrete mixture layer of 100 mm thick over the already laid cables in the excavated trench. (Inspection by Consignee)	CuM	110	5214.42	5,73,586.20
48	Supply of Cat-6 patch cord 1 Mtr from D-link or DAX or Krone or Finolex make. (Inspection by Consignee)	Nos.	30	50.37	1,511.10
49	Supply of PVC casing & capping of size 25mm x 25mm and 2mm thickness piece with all accessories like joint, bends etc of Precision, Garware make or similar standard make. (Inspection by Consignee).	Mtr.	350	50.42	17,647.00
50	Supply of PVC channel of size 50x50 mm with all accessories like joint, bends etc of precision, Garware make or similar standard make. (Inspection by Consignee).	Mtr.	150	82.73	12,409.50
51	Fixing of PVC casing & capping or conduit on wall etc. with suitable fasteners as per route given by and as per instruction of site engineer of Rly. This includes breaking up of wall for cabling & painting it to original level & laying of cables. (Inspection by Consignee).	Mtr.	500	3.61	1,805.00

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52	Supply of GI pipe, inner dia. 100mm dia. B-class as per spec. No.IS 1239 PT. 1/2004 with sockets and fittings. (Inspection by Consignee)	Mtr.	102	1071.44	1,09,286.88
53	Laying of GI pipes in on bridges/culverts/concrete drawing/mountain ridges etc. with suitable GI bend shall be provided where there is turning of pipe as per the instruction of Site engineer. GI clamps at every 2m as shown in the drawing to be fixed. Suitable holes to be made in the pipe before laying as per the instruction of the site engineer 10mm dia. (Inspection by Consignee)	Mtr.	102	136.88	13,961.76
54	Supply and installation of 24 Port POE switch with 4 SFP port 2 Gigabit SFP module loaded out of 4 SFP) manageable 24 port 10/100/1000 Mbps layer 2 switches with minimum 2 SFP port loaded with fiber module of 1000LX SMF in the blank SFP slot and POE functionality. IP multicast snooping and data driven IGMP support as per RDSO specification no. RDSO/SPN/TC/83 2017 Rev.1 (with latest amendments/ revision) and other specs (switch fabric bandwidth of 12 Gbps or more, frame forwarding rate of 9 Mbps or more.) (Inspection by Consignee)	Nos.	5	42848.35	2,14,241.75
55	Supply of chair for sectional JE/SSE with cushioned seat and back. Make: Godrej model Bravo Mid Back or similar model of Nilkamal or Durian. (Inspection by Consignee)	Nos.	6	7488.16	44,928.96
56	Supply of table for sectional JE/SSE make Godrej model T104/T111 or similar model of Durian or Urban Ladder. (Inspection by Consignee)	Nos.	3	8856.26	26,568.78
57	Supply of Steel cupboard (plain storewel) for SSE/JE store of size 6'x3'. Make Godrej or Nilkamal or Pepperfry. (Inspection by Consignee)	Nos.	3	11803.13	35,409.39
58	Maintenance free earth as per RDSO/SPN/197/2008 or latest consisting of: (1) Copper bond steel electrode 3 Mtr long 17 mm dia with copper bonding thickness of min 250 micron & UL listed & marked-01 No. (2) Earth Enhance compound RDSO approved in sealed bag of 10 Kg-03 Nos. (3) Copper strip 150 x 25 x 6 mm-02 Nos. (4) Copper strip 300 x 25 x 6 mm-01 No. (5) 35 Sqmm copper cable to connect earth electrode to MEEB-15 Mtr. approximately. (Inspection by RDSO)	Set	2	18491.78	36,983.56
59	Installation of unit earth as per RDSO/SPN/197/Ver 1 or latest, to construct earthing of ≤ 1 Ohm consisting of: a) Digging the earth to required depth, insertion of electrode, filling of earth enhancing compound & construction of chamber, measurement of earth value and other work of earthing as per code of practice. All the consumables for mounting the copper tape inside the equipment room, exothermic weld material and tools & fixtures for the welding copper tapes and electrodes etc. shall be arranged by the contractor. (Inspection by Consignee).	Set	2	5170.76	10,341.52
60	Supply of the material for maintenance free Ring Earth consisting of looping of 4 earth pits each as per RDSO specification No. RDSO/SPN/197/2008 or latest amendment and RDSO drawing no. SDO / RDSO/ E&B/001 and 002. (Inspection by RDSO)	Set	1	44908.26	44,908.26

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61	Installation, testing and commissioning of the Ring Earth as per RDSO specification no. RDSO/SPN/197/2008 or latest amendment and RDSO Drg. No. SDO/RDSO/E&B/ 001 and 002. All the consumables for mounting the copper tape/bus bar, copper lugs with stainless steel nut and bolts, copper bus bar etc. will be supplied by the contractor free of cost. (Inspection by consignee)	Set	1	14027.44	14,027.44
62	Supply, testing & installation & commissioning of Double face digital platform clock & GPS synchronization as per RDSO specification No.RDSO/SPN/TC 62 2008 Rev3.0 or with latest amendment. (including installation accessories such as GPS receiver with connecting RF cable upto sufficient length with hanging Bar, bolt & Nuts, Rain sheds, power cable termination with GPS antenna). (Inspection by RDSO)	Nos.	5	26171.52	1,30,857.60
63	Supply of 2 Mbps digital Modem conforming to RDSO specification No. RDSO/SPN/TC/80/2013 (rev.1.0) or with latest amendment with following interface 1. carrier end G-703 E1 interface 2. DTE end V-35 and should work on AC/DC port. (Inspection by Consignee)	Pair	6	13647.67	81,886.02
64	Supply and installation of 08 Port 10 / 100 / 1000 base T Layer 2 Smart managed POE Switch with 2 Nos. of SFP Gigabit Uplink port. Make: TP Link/ HP/ Cisco/Juniper/Extreme only. (Inspection by Consignee)	Nos.	10	12267.30	1,22,673.00
65	Supply of Ethernet E1 modem pair as per RDSO's specs RDSO/SPN/TC/80/2011. (Inspection by Consignee)	Pair	3	24828.30	74,484.90
66	Supply of High throughput LAN extenders as per CR's specification no.CR/SPN/TC/80/2016 Rev 1.0 effective from 17.10.2016. (Inspection by Consignee)	Pair	6	24151.23	1,44,907.38
67	Supply of managed expendable rack type STM-4 ADM L4.2 as per technical no. TEC GR No.TEC/GR/TX/SDH-010/03 JAN 2011 with latest amendment with 2 Nos. STM-4 aggregate optical interface and 2 Nos. STM-1 (S1.1) aggregate optical interface 21 E1s and minimum 8 nos. of 10/100 base T Ethernet port, Orderwire, power supply unit, Subrack DDF, Installation materials, manuals and other accessories. The equipment should be TEC Approved and to be inspected by RDSO. The equipment should be fully wired for its ultimate capacity and provided redundancy for power supply and synchronization. It shall be possible to use the full capacity of the equipment by adding additional tributary cards. Make: Tejas or suitable for existing system installed in Pune division. (Inspection by Consignee)	Nos.	1	277618.54	2,77,618.54
68	SUPPLY OF Dual band Gigabit Wi-Fi ROUTER with minimum 4x Gigabit LAN Ports and 1x Gigabit WAN Port, minimum 1 year warranty. Make: LINKSYS Velop micro mesh 6 / TP Link Archer Ax1800 / Netgear Nightawk RAX 10. (Inspection by consignee)	Nos.	6	5118.51	30,711.06
69	Supply of wireless VDSL 2+, 4 port gateway with USB as per instruction of site incharge. Make: Zyxel or Similar. (Inspection by consignee)	Nos.	30	3599.95	1,07,998.50

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70	Supply of Thermo shrink Cable Jointing kit (Reinforced) TSF-2 type generally conforming to RDSO specification RDSO/SPN/TC/57/2015 Rev 1 with modified kit contents as per CSTE's Specification No.CR/SPN/TC/57(A)/2015 Dt. 06.01.2015 (Table-A) to be suitable for jointing both 10/20/50 pair PIJF and 4/6 Quad cables along with sub-kit (Table-B) for armour continuity. (Inspection by consignee)	Nos.	30	3197.80	95,934.00
71	Making of Thermoshrink straight through / derivation / transformer / PIJF cable joint for underground jelly filled cable 6 quad/ 4quad/ 20 pair 10 pair etc. PIJF cable as per the instruction of Rly engineer at site. (Inspection by consignee)	Nos.	30	1511.58	45,347.40
72	Supply of Hand Held 100 KHz Digital Multimeter. Make: FLUKE/ MECO/ RISHABH. (Inspection by Consignee)	Nos.	6	2060.05	12,360.30
73	Supply, installation and commissioning of Primary Digital Multiplexing Equipment (PDMUX) as per RDSO specification No. IRS:TC-68/2012 Rev.0 Amdt.1 or with latest amendment compatible to WEBFIL make PD MUX. (Inspection by consignee)	Set	1	140087.05	1,40,087.05
74	Supply of exchange interface cards (4 circuits/ card) compatible with schedule item no. 1 as per RDSO specification IRS/TC/68/12 with latest amendment compatible to WEBFIL make PD MUX. (Inspection by consignee)	Nos.	6	46047.47	2,76,284.82
75	Supply of 2/4 wire E&M card 4 channels per card as per specification no. IRS/TC/68/12 compatible to WEBFIL make PD MUX. (Inspection by consignee)	Nos.	5	34221.65	1,71,108.25
76	Supply of 2 MB tributary module for 2 MB programmable primary digital drop insert multiplexer compatible to WEBFIL make PDMUX. (Inspection by consignee)	Nos.	5	89344.79	4,46,723.95
77	Supply of Network Interface module card as per specn No: IRS-TC-68/12 or with latest amendment compatible with WEBFIL make PDMUX. (Inspection by consignee)	Nos.	5	31932.43	1,59,662.15
78	Supply of Power supply unit for PD WEBFIL MUX working on 40 Volt to -58 Volt DC input and +5.0 Volt, +10 Volt - 10.0 Volt and +80 Volt DC output as per RDSO specification no. IRS/TC/68/2012. (Inspection by consignee)	Nos.	5	32812.27	1,64,061.35
79	Supply of GPS tagging featured cable route locator/ tracer set suitable for detecting underground armoured optic fiber cable (OFC) and signaling cables with LCD Graphic Display active/passive modes and depth range. 3M-10m. Model STLOC10 GPS make Stanlay or equivalent. (Inspection by Consignee)	Nos.	1	410148.08	4,10,148.08
80	Supply and installation of 24 port IPDSLAM Make- Zyxel or similar with Telco 50 cable (02 Nos). (Inspection by Consignee)	Nos.	3	210392.82	6,31,178.46
	Total				1,13,10,363.02

CHAPTER-VI

Annexures, Formats, etc.

INDEX FOR ANNEXURES	
ANNEXURE No.	DESCRIPTION
A	FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER ALONG WITH THE TENDER DOCUMENTS
A (I)	FORMAT FOR CERTIFICATE TO BE GIVEN BY ATTORNEY / AUTHORIZED SIGNATORY / EACH MEMBER OF PARTNERSHIP FIRM / JOINT VENTURE (JV) / HINDU UNDIVIDED FAMILY (HUF) / LIMITED LIABILITY PARTNERSHIP (LLP) ETC.
B	PROFORMA FOR BANK GUARANTEE BOND
C	PROFORMA FOR EFT (RTGS/NEFT) PAYMENT DETAILS
D	PROFORMA FOR IDENTITY CARD TO CONTRACTOR'S EMPLOYEE
E	OEM'S SITE INSTALLATION CERTIFICATE
F	PROFORMA FOR INDEMNITY BOND

Annexure-A

**FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER
ALONG WITH THE TENDER DOCUMENTS**

I, (Name and designation)**
appointed as the attorney/authorized signatory of the tenderer, M/s.
..... (hereinafter called the
tenderer) for the purpose of the Tender documents for the work of
".....
....."
..... as per the Tender no. of
..... (Railway)**, do hereby solemnly affirm and state on the behalf of
the tenderer including its constituents as under:

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

SEAL AND SIGNATURE
OF THE TENDERER

Place:

Dated:

** The contents in Italics are only for guidance purpose. Details as appropriate are to be filled in suitably by Tenderer.

Annexure-A (I)

FORMAT FOR CERTIFICATE TO BE GIVEN BY ATTORNEY / AUTHORIZED SIGNATORY / EACH MEMBER OF PARTNERSHIP FIRM / JOINT VENTURE (JV) / HINDU UNDIVIDED FAMILY (HUF) / LIMITED LIABILITY PARTNERSHIP (LLP) ETC.

I/We (Name), attorney / authorized signatory of the (Constituent Firm / Constituent Partner) and member / partner of the (Tendering firm) hereby solemnly affirm and state as under:

1. I/We certify that (Constituent Firm / Constituent Partner) is / are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF / member of the Partnership Firm / LLP / JV / Society / Trust.
2. 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).

SEAL AND SIGNATURE
OF THE CONSTITUENT FIRM / CONSTITUENT PARTNER

Place:

Dated:

Annexure-B

FORMAT FOR PERFORMANCE BANK GUARANTEE

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

PERFORMANCE BANK GUARANTEE BOND

To,
The President of India,
Acting through,
Sr.D.F.M.,
Central Railway,
Pune

In consideration of the President of India (hereinafter call "the Government) having agreed to exempt (hereinafter called "the said contractor/s") from the demand, under the terms and conditions of an Contract Agreement / Acceptance Letter No. dated made between the President of India, Acting through, Sr.DSTE, Central Railway, Pune and for the work of "....." (hereinafter called "the said contractor") of Performance Guarantee for due fulfillment by the said contractors of the terms and conditions contained in the said contract, on production of bank guarantee for Rs...../- (Rupees).

We,, (hereinafter referred to as "the Bank") at the request of (hereinafter called "the said contractor") do hereby undertake to pay to the Government through Sr.D.F.M, Central Railway, Pune an amount not exceeding Rs...../- (Rupees) against any loss or damage caused to or suffered or would be caused or suffered by the Government by reasons of any breach by the said contractors of any of the terms or conditions contained in the said contract.

We,, (hereinafter referred to as "the Bank") do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Government stating that the amount/claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reasons of breach by the said contractor's of any of the terms or conditions contained in the said contract or by reason of the contractor(s) failure to perform the said contract. Any such demand made on Bank shall be conclusive as regards amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs...../- (Rupees).

We,, (hereinafter referred to as "the Bank") undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/Supplier(S) in any suit or proceeding pending before any court or Tribunal relating thereto our liability under

this present being absolute and unequivocal. The payment so made by us under this bond shall be valid discharge of our liability for payment there under and the contractor(S)/ Suppliers(S) shall have no claim against us for making such payment.

We,, (hereinafter referred to as "the Bank") further agree that the Guarantee hereinafter contained shall remain in full force and effect during the period that would be taken for the performance of the said contract and that it shall continue to be enforceable till all the dues of the Government under or by Virtue of the said agreement have been fully paid and its claims satisfied or discharged or till The President of India, Acting through, Sr.DSTE, Central Railway, Pune or Department Ministry of Railway certifies that the terms and conditions of the said contract have been fully and properly carried out by the said contractor(S) and accordingly discharges this Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before (Date), we shall be discharged from all liability under this Guarantee thereafter.

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

This Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s)/supplier(s).

We,, (hereinafter referred to as "the Bank") lastly undertake not to revoke this Guarantee during the currency except with the previous consent of the Government in writing.

Notwithstanding anything above, our liability under this Guarantee is restricted to Rs...../- (Rupees). Our guarantee shall remain in force up to (Date), unless a demand or claim in writing is presented to us under the guarantee on or before (Date), all your rights under the said Guarantee shall be forfeited and we shall be relieved and discharged from all liabilities there under.

Dated this the _____ day of _____ 20____

Place:

PROFORMA FOR EFT (RTGS/NEFT) PAYMENT DETAILS

To,
Sr.DFM,
Central Railway,
Pune

Sub: Bank details for payment through EFT (RTGS/NEFT).

I hereby agree to get make my payment thorough EFT (RTGS/NEFT). The details are as under –

SN	Particulars	Details
1.	Name of Firm / Contractor	
2.	Address of Firm / Contractor	
3.	Beneficiary Name	
4.	Name of Bank	
5.	Branch & Address of Bank	
6.	Beneficiary's Bank Account No.	
7.	Type of Account	
8.	Bank's IFSC Code	
9.	Bank's MICR Code	
10.	GST No. (Enclose/upload copy of Certificate)	
11.	PAN No. (Enclose/upload copy)	
12.	IREPS Code	
13.	Mobile/Telephone No.	

Thanking you.

Sign & Seal of Contractor

Annexure-D**PROFORMA FOR IDENTITY CARD TO CONTRACTOR'S EMPLOYEE**

SN	Particulars	Details	
1.	Identity Card No.		Colour photograph of employee (Sign & seal of Contractor on photograph)
2.	Date of Issue		
3.	Letter of Acceptance / Contract Agreement No. and date		
4.	Name and address of Firm / Contractor		
5.	Particulars of Employee:		
(a)	Name		
(b)	Address		
(c)	Age		
(d)	Sex		
(e)	Date of entry in service		
(f)	Designation/nature of work		
6.	Validity date of I/Card		
7.	Signature of Employee		

Sign & Seal of Contractor**Countersignature of the concerned
Senior Supervisor of Railway**

OEM's Site Installation Certificate

(For EI, SSDAC/MSDAC, UFSBI/BPAC, IPS, Data logger only)

**To,
Sr.DSTE,
Central Railway,
Pune**

This is to certify that verification of system installation (details given below) has been completed by undersigned (OEM representative) and all necessary arrangements like earthing, surge protection, power supply, power & communication cables, and equipment wiring meet the required standards of engineering for trouble free working of installed system.

1. System being commissioned:
2. Station / Section:
3. Division:
4. Date of commissioning:

.....
Name of RDSO approved Original Equipment Manufacturer:

.....
Name of OEM representative with Designation:

.....
Signature of OEM representative with Date:

Annexure-F

INDEMNITY BOND

Indemnity Bond for safe custody of Railway material to be supplied to M/s. _____ under Tender no. _____ We, M/s. _____ (hereinafter called the Contractor) do hereby undertake that we shall hold in our custody for and on behalf of the President of India acting in the premises through the General Manager, Central Railway or for him all Railway materials which have been handed over to us against the contract for Tender no. _____ dated _____ for the work of _____ by the Railway for the purpose of execution of the said contract until such time the materials are duly installed and/or erected or otherwise handed over to the Railway.

We shall be entirely responsible for the safe custody and protection of the said materials against all risk till they are duly delivered as installed and/or erected equipment to the Railway or as directed otherwise and shall indemnify the Railway against any loss, damage or deterioration whatsoever in respect of the said materials. The said materials shall at all time be opened to Inspection by any Officer authorized by the General Manager, Central Railway or his nominee.

Should any loss, damage or deterioration of materials occur or surplus materials disposed off and a refund becomes due, the Railway shall be entitled to recover from us the full cost and compensation determined in terms of the contract for such loss or damage, if any, along with the amount to be refunded without prejudice to any other remedies available to him by deduction from any sum due or any sum which at any time thereafter becomes due to us under the said or any other contract.

In the event of any loss or damage as aforesaid the assessment of such loss or damage and the assessment of the compensation therefore would be made by the President of India acting through the General Manager, Central Railway or his authorized nominee shall be final and bind upon us.

Signed at _____ on this day of _____

Signature of Witness: _____

for & on behalf of M/s. _____

Name of Witness in BLOCK LETTERS: _____

ADDRESS: _____

“End of tender document”