

GOVERNMENT OF INDIA



NORTH WESTERN RAILWAY

SIGNAL & TELECOMMUNICATION (JODHPUR- DIVISION)

TENDER DOCUMENT

For the work of

Jodhpur-Division:-S&T work in Connection with -"Proposed New Block Station along with development of Goods Shed at Manklav Station."

TENDER No. SNT-GSU-JU-2026-27-02

NORTH WESTERN RAILWAY

OFFICE OF THE

Chief Project Manager-GSU

JODHPUR DIVISION

Price: Document Cost- Nil

TENDER DOCUMENTNORTH WESTERN RAILWAY
(TOP SHEET)

(A) Details to be filled in by Railway:

Mode of Tender	E-Tender (Single Packet) or (E-Reverse Auction Tender for >Rs 50.00 Cr.)*
Tender Notice No.	SNT-GSU-JU-2026-27-02
Full name of work	Jodhpur-Division:-S&T work in Connection with - "Proposed New Block Station along with development of Goods Shed at Manklav Station."
Approx. cost	Rs. 4,71,25,807.08
Completion period	12 Months
Bid Security amount	Rs 9,42,600.00
Sale/availability of tender document on Rly. Website	Tender documents will be available on IREPS web site i.e. www.ireps.gov.in from 12.06.2026 to 08.07.2026 up to 15:00 hrs.
Last date/Time of upload of tenders	08.07.2026 at 15.00 hours. Tender documents can be uploaded by the tenderer on IREPS web site w.e.f 12.06.2026 to 08.07.2026 up to 15:00 hrs.
Date and time of opening of tender	08.07.2026 at 15:30 hours (immediately after close of uploading of tender). In case of two packet system, Financial bids of the eligible tenderers would be opened subsequently on the date & time to be notified later on.

*E-RA tender for >Rs 50.00 Cr. Works ...Authority -RB letter no. 2017/Trans/01/Policy/Pt.-S dt. 28.3.2018

(B) Details to be filled in by tenderer while uploading their offer:

1	Constitution of the firm/ Concern (Tick as applicable)	Sole Proprietorship/ Partnership Firm / Company/ JV/ Society/ LLP/ HUF
2	Full name of Sole Proprietorship/ Partnership firm/ Company/ JV/ Society/LLP/HUF (as the case may be)	
3	Year of formation/ incorporation	
4	PAN NO.	
5	Registered Office Address	
6	Address on which correspondence regarding this tender should be done	
7	Names of the Proprietor/ Partners/ JV members etc	
8	Contact No and e-mail id of authorized person under whose digital signature key tender document will be signed/uploaded on behalf of the tendering firm	

Note:

- i) Special attention of tenderers is drawn to clause 16 of Part-II of “General Condition of Tender”, tenderer must upload, and the documents mentioned therein pertaining to constitution of firm / concern.

Signature of the tenderer

Name of signatory_____.

(C) **CHECK LIST**
DOCUMENT ATTACHED WITH THE OFFER
(Only for the guidance to Tenderer)

S. No	Document/ Detail	Required in the form	Attached	
			Yes	No
Constitution of Firm documents (as required in terms of Clause 16 of the tender document)				
1	In case of Sole Proprietorship Concern	(i) Affidavit as per Annexure –IX Affidavit may be given. If not given As per para 14(ii)(a) of GCC-2022, If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm/Partnership firm/Joint Venture/Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.		
		Special power of Attorney to be submitted by sole proprietor firm as per proforma given in Annexure XIV (duly registered with the Registrar or notarized). (Not required if tender documents are submitted by proprietor himself as per (a) above)		
2	In case of a “Partnership Firm/Concern”	(i) Notary certified copy of the Partnership Deed.		
		(ii) Document(s) in support of Registration of firm with Registrar of firms which includes Certificate of registration and Register of firm (Form No. may vary from State to State) (as applicable) etc. issued by Registrar of firms.		
		(iii) Notarized/Registered Power of Attorney /in favour of the individual signing the tender document authorized by all the partners to act on behalf of the firm and create liability against the Firm. (Standard Performa as per Annexure-XIII is enclosed for guidance)		
		(iv)An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of opening of bids, either in their individual capacity or in any firm in which they were / are partners. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. Note: Authorization given in POA only will be considered irrespective of any authorization that may have given in Partnership Deed. In case of non-submission of POA or invalid POA, offer is liable to be rejected.		

3	In case of a “JV Firm”	(i) A copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper and notarized, shall be submitted by the JV along with the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU. (as per pro forma given in Annexure-X)		
		(ii) Power of Attorney/authorization duly Notarized by all JV constituents, in favour of the individual under whose digital signature key the tender document shall be uploaded on behalf of JV for signing the tender document on behalf of the JV (Standard Performa as per Annexure-X(A))		
3 (a)	In case one or more of the members of the JV Firm is/are Partnership Firm(s), following documents shall be submitted:	(i) Notary certified copy of the Partnership Deed. Document(s) in support of registration of firm with registrar of firms viz. Certificate of registration and Register of firm (Form No. may vary from State to State) etc. issued by registrar of firms.		
		(ii) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper, (Standard Performa as per Annexure-XI)		
		(iii) A copy of Power of Attorney (duly notarized/registered) in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm. (Standard Performa as per Annexure-XVIII) Note: Authorization given in POA only will be considered irrespective of any authorization that may have given in Partnership Deed. In case of non-submission of POA or invalid POA, offer is liable to be rejected.		
3(b)	In case one or more of the members of the JV Firm is/are Proprietary Firm or HUF, following documents shall be submitted:	(i) A copy of notarized affidavit on Stamp Paper declaring that his/her Concern is a Proprietary Concern and he/she is sole proprietor of the Concern OR he/she is in position of "KARTA" of Hindu Undivided Family (HUF) and he/she has the authority, power and consent given by other partners to act on behalf of HUF. (Standard Affidavit as per Annexure-IX A)		
		(ii) A copy of Special Power of Attorney to be submitted by Sole Proprietor or HUF participating as member of JV firm as per proforma given in Annexure-XII (duly registered with the Registrar or notarized).		

3(c)	In case one or more members of JV is/are Limited Companies, the following documents shall be submitted:	(i) A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement (Standard Performa as per Annexure-XVII)		
		(ii) Copy of Memorandum and Articles of Association of the Company		
		(iii) Copy of certificate of incorporation.		
		(iv) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company (Standard Performa as per Annexure-XII).		
3(d)	In case one or more members of JV is/are LLP firm, the following documents shall be submitted/uploaded	<p>(i) A Notarized copy of certificate of incorporation and LLP agreement.</p> <p>(ii) A Notarized copy of resolution of the partners of LLP, permitting the LLP to enter into a JV agreement, authorizing one of the partners of LLP to sign JV MOU/agreement and such other documents required to be signed on behalf of the LLP and to create liability against the LLP and/or to do any other act on behalf of LLP (Standard proforma as per Annexure-XXIV)</p> <p>(iii) A copy of authorization/copy of power of attorney issued by the LLP (backed by resolution of partners) in favour of individual to sign the tender, sign MOU/JV agreement on behalf of the LLP and create liability against the LLP (Standard proforma as per Annexure XXV)</p>		
4	In case of a "Company"	<p>(i) Copies of the AOA/MOA (Article of Association/Memorandum of Association) of the Company;</p> <p>(ii) copy of certificate of incorporation.</p> <p>(iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company (Standard Performa as per Annexure-XV & XV-A).</p> <p>(iv) An Undertaking that the company is not black listed or debarred by Railways or any other Ministry/Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which the company was/is a partner/member.</p> <p>Concealment/wrong information in regard to above shall make the contract liable for determination under clause 62 of the General Conditions of contract.</p>		

5	In case of a “ Registered Society & Registered Trust ”	(i) Copy of the certificate of registration;		
		(ii) Copy of Deed of formation; and		
		(i) (iii) Notarized copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (Standard proforma as per Annexure XXII).		
6	In case of LLP (Limited liability partnership)	(i) A copy of LLP Agreement, (ii) A copy of Certificate of Incorporation; and (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP (Standard proforma as per Annexure Annexure-XX, XXI). (iv) An Undertaking that the LLP is not black listed or debarred by Railways or any other Ministry/Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of JV in which the LLP was/is a member. Concealment/wrong information in regard to above shall make the contract liable for determination under clause 62 of the General Conditions of contract.		
6 (A)	In case of HUF	(i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of ‘Karta’ of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF(Standard proforma as per Annexure XXVIII). (ii) An undertaking that the HUF is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which HUF was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.		
<u>Other Important documents required to be uploaded along with bid (Mandatory)</u>				
1	Tender Form (First Sheet) (Mandatory)	Undertaking by the bidder.		
2	Annexure-I (Mandatory)	Declaration regarding constitution of firm & Bank Details		
3	Annexure II& IIA (Mandatory)	Affidavit to be submitted by tenderer along with the tender documents		

4	Annexure-III/III(A)/III(B) (Mandatory)	<p><u>Technical Eligibility Criteria:-</u></p> <p>Works executed during last 7 years ending last day of the month previous to the one in which tender is invited.</p> <p>Completion/Performance Certificate in support of 30/40/60% (as the case may be) similar nature of work as per clause 16.0 (c) of tender document.</p>		
5	Annexure-IV(A)/IV(B)/IV(C) (Mandatory)	Performa of Work Completion Certificate.		
6	Annexure-VI	Plant and Machinery		
	Annexure-VI(A)	Performa of Bid Security Bank Guarantee bond		
	Annexure-VI(B)	Performa Joint Venture Annual contractual turnover		
7	Annexure-VII	Engineers/Personnel		
8	Annexure- VIII or VIII(A) (Mandatory)	<p><u>Financial Eligibility Criteria:-</u></p> <p>Detail of Contractual Payment received in previous three financial years and the current financial year as per detail at:</p> <ul style="list-style-type: none"> • Annexure-VIII, if contractual payments received are based on Audited Balance Sheets duly certified by Chartered Accountant. (Mandatory) <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Annexure- VIII(A), if contractual payments received from concerned Department / Client based on Form 26AS/16A from IT TRACES duly certified by Chartered Accountant to judge the payment received as per clause 16.0 (k) of tender document. 		
9	Annexure -IX or Annexure-IXA (Mandatory)	<p><u>For Sole Proprietorship firm</u></p> <p>Affidavit as per proforma given of (duly executed on stamp paper and notarized). All documents in terms of Para 15 above.</p> <p>As per Clause No. 14(ii)(a) & 15 Annex. I Part-I of GCC 2022, with up to date correction slip</p>		
10	Annexure-XIX or XIX(A) (Mandatory for tender value more than Rs.20 crore)	<p>Contractual payment received in last three years -in support of Bid Capacity</p> <p>Annexure- XIX if contractual payments received are based on Audited Balance Sheets duly certified by Chartered Accountant.</p> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Annexure- XIX(A), if contractual payments received from concerned Department / Client based on Form 26AS/16A from IT TRACES duly certified by Chartered Accountant. 		

11	Annexure XXIII (Mandatory)	Mandatory undertaking Regarding Employment/ Partnership of Retired Railway Employees		
12	Annexure – XXIX (Mandatory)	Mandatory certificate to be submitted by tenderer along with the tender documents (Railway Board letter No. 2020/CE-I/CT/2/GCC/Correspondence, dated 11.08.2020).		
13	Annexure- XXVI& XXVII	If tender is submitted by Existing or newly formed Partnership Firm, relevant Annexure XXVI and XXVII as declaration to be submitted by the tenderer along with tender document.		
14	Card detail of EI system being offered, if required as per tender document	Mandatory. To be submitted with Financial bid in case of Two packet tender (Appendix-AF)		

Details of Appendix

Sr. No.	Appendix/Annexure	Description
1.	Appendix-AC	OEM's Site Installation Certificate (For CCTV, EI, Data logger, FEP, IPS, HASSDAC & ELD)
2.	Appendix-AD	Materials to be supplied by the contractor, the cost of which is to be included in the labour charges of concerned item of Schedule.
3.	Appendix-AE	Materials to be supplied by Railways
4.	Appendix-AF	Format For Quantity Breakup For EI System To Be Furnished By Tenderer
5.	Appendix-AG	Indemnity Bond
6.	Annexure-A	Request letter from Executive branch to Accounts Office for opening of LC Office of Railway
7.	Annexure-B	LCDA No. (18 DIGIT IPAS GENERATED NO.) In Connection of LC
8.	Annexure-C	Procedure for Conduct and Reporting of R.A.(Reverse Auction)
9.	Annexure-D	Tenderer's Credentials (Bid Capacity)
10.	Annexure-E	Declaration by Tenderer
11.	Annexure-Z	For Undertaking Digging Work in the Vicinity of underground Signaling, Electrical & Telecommunication cables

(D) PRECAUTIONS TO BE TAKEN FOR PREPARING LEGAL DOCUMENTS
(For guidance to Tenderer):

1. Non Judicial stamp paper

- (i) Should have been purchased in the name of the Company/firm/executants
- (ii) Should be purchased from the Place/State where the document is being executed.
- (iii) Values of the non judicial stamp paper (NJSP) should be as mentioned in Tender conditions, where value of NJSP is not mentioned in the tender conditions, value of NJSP should as per the law of the state in which the document is being executed.
- (iv) Date of purchase of Non Judicial stamp paper should be prior from the date of execution of document.

2. Signature on the document

- (i) The document should be signed on each page and also at the appropriate place meant for signature of executants/deponent.
- (ii) Signatory/executants should ensure that on the date of signing the document he/she has valid authority/attorney in his/her favour for signing.
- (iii) In affidavit declaration clause as well as verification clause both should be signed by deponent/executants.
- (iv) Where the document requires witnessing, it should be duly signed by witnesses along with their names and addresses.
- (v) On Power of Attorney, signatures of the Attorney holder should also be got done and attested by executants.

3. Format of the document

- (i) Where the format has been prescribed by the Railway, the document should be executed in that format.
- (ii) Date and place of execution should always be mentioned on the document.

4. Notarization of document

- (i) The document should be duly attested (signed and stamped) by notary public on each page.
- (ii) The seal of the notary public should contain his name, area of practice and Registration number.
- (iii) Notarial stamps of appropriate value should be affixed on the document

(E) COVERING NOTE

FOR THE SPECIAL ATTENTION OF THE TENDERERS

- 1. The tenderers are requested to carefully peruse the Tender Documents, and upload all requisite documents/credentials & Mandatory documents along with the offer. Scanned copy of the documents, uploaded by the tenderer shall be clear & readable. Documents submitted/uploaded previously or along with another tender currently under consideration SHALL NOT be considered while evaluating the present tender.
- 2. The tenderer(s) shall visit the site of work and acquaint himself/themselves with the conditions of work viz. approach roads and accessibility, nature of soil/rock, availability of materials, electric power, water for work and drinking purposes, site for labour camps, stores, godowns, extent of lead/lift in work, availability of skilled and unskilled labour etc. that may be encountered in the course of execution of work. In short, he/they should familiarize himself/themselves fully with the conditions of the site and FURNISH A CERTIFICATE TO THIS EFFECT, in the Proforma appended as **Annexure-E**.
- 3. **FURTHER, OFFERED RATES SHOULD BE FILLED UP IN THE TENDER SCHEDULE at specified space. RATES OFFERED IN ANY OTHER PROFORMA/FORM WILL BE SUMMARILY REJECTED.**
- 4. **To be opened at 15:30 hours on 08.07.2026 and shall be uploaded along with the following documents:**
 - (i) Bid Security: **Rs 9,42,600.00 ON LINE MODE/ Bank Guarantee Bond)**
 - (ii) All other mandatory documents as listed in the document

5. Note:- Tenderer(s) to please note that after opening of tender, any document/credential pertaining to technical & financial eligibility, constitution of firm etc. shall neither be asked nor be entertained/ considered under any circumstances and no claim or representation whatsoever from the tenderer in this regard shall be entertained. Scanned copy of the documents, uploaded by the tenderer shall be clear & readable. However Railway reserves the right to seek any clarification on the documents/credentials already submitted by the tenderer along with the offer.
6. Each page of the tender papers will be treated as signed/ accepted by the tenderer(s) or such person(s) on his/their behalf who is/are legally authorized to sign for him/them.
7. The tenderer(s) may note that the Railway reserves its right to either accept or reject any Bid/s without assigning any reasons whatsoever and tenderer(s) shall have no claim(s) on this account.
8. Public Procurement (Preference to Make in India):- The tenderer shall comply with Public Procurement Policy order 2017.
9. Prospective tenderer(s) may contact CPM/GSU/JU, North Western Railway, Jodhpur (e-mail id- cpmgsuju@gmail.com & phone-9001195211) for obtaining further clarifications, if required **during working hours**.

PART-I
NORTH WESTERN RAILWAY
TENDER FORM (First Sheet)

Tender No: **SNT-GSU-JU-2026-27-02.**

Name of Work: - Jodhpur-Division:-S&T work in Connection with -"Proposed New Block Station along with development of Goods Shed at Manklav Station."

To

The President of India Acting through the

CPM-GSU-JU/Dy. CSTE-GSU-AII (Looking after S&T/GSU/JU)

North Western Railway

1. I/We__have read the various conditions to tender attached hereto and agree to abide by the said conditions. I/We also agree to keep this tender open for acceptance for a period of **60** days from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our "Bid Security". I/We offer to do the work for North Western Railway, at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work in all respects within **12 Months** from the date of issue of letter of acceptance of the tender.
2. I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract April-2022, with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/Specifications, Schedule of Rates with all correction slips up-to-date for the present contract.
3. A Bid Security of **Rs 9,42,600.00** has already been deposited online/submitted as Bank Guarantee Bond. Full value of the Bid Security shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if:
 - (a) I/We do not submit the Performance Guarantee within the time specified in the Tender document;
 - (b) I/We do not execute the contract documents within **Seven days** after receipt of notice issued by the Railway that such documents are ready; and
 - (c) I/We do not commence the work within **fifteen days** after receipt of orders to that effect.
4. (a) I/We am/are a Startup firm registered by Department of Industrial Policy and Promotion (DIPP) and my registration number isvalid upto (Copy enclosed) and hence exempted from submission of Bid Security.
5. We are a Labour Cooperative Society and our Registration No. is with and hence required to deposit only 50% of Bid Security.

6. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.

Signature, Name & Address of Witnesses:

(1) _____

(2) _____

Signature& Name of Tenderer(s)

Date _____

Address of the Tenderer(s)

Part-II
GENERAL CONDITIONS OF THE TENDER
TENDER FORM (Second Sheet)

1.	<p>Instructions to Tenderers and Conditions of Tender: The following documents form part of Tender / Contract:</p> <p>(a) Tender Forms – First Sheet and Second Sheet</p> <p>(b) Special Conditions/Specifications (enclosed)</p> <p>(c) Bill(s) of quantities(enclosed)</p> <p>(d) Standard General Conditions of Contract-April 2022 or latest and Standard Specifications (Works and Materials) of Indian Railways as amended/corrected upto latest correction slips, copies of which can be seen in the office of CPM/GSU/JU or obtained from the office of the Chief Engineer, North Western Railway on payment of prescribed charges.</p> <p>(e) Standard Schedule of Rates (SSOR) as amended / corrected upto latest correction slips, copies of which can be seen in the office of CPM/GSU Jodhpur or obtained from the office of the Principal Chief Signal & Telecom Engineer, North Western Railway on payment of prescribed charges.</p> <p>(f) All general and detailed drawings pertaining to this work which will be issued by the Engineer or his representatives (from time to time) with all changes and modifications.</p>
2.	<p>Drawings for the Work: The Drawing for the work can be seen in the office of the CPM/GSU. Jodhpur and / or Principal Chief Signal & Telecom Engineer, North Western Railway at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time.</p>
3.	<p>The Tenderer(s) shall quote his / their rates as a percentage above or below or at par the total value of tender Standard Schedule of Rates (SSOR) of North Western Railway. The quantities shown in the attached Bill(s) of quantities are given as a guide and are approximate only and are subject to variation according to the needs of the Railway. The Railway does not guarantee work under each item of the Bill(s) of quantities. The tenderer(s) shall quote rates / rebates only at specified place in Tender Form supplied by Railway. Any revision of rates / rebates submitted (quoted) through a separate letter whether enclosed with the bid (Tender Form) or submitted separately or mentioned elsewhere in the document other than specified place shall be summarily ignored and will not be considered.</p>
4.	<p>Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tender(s) in his/their entries must be attested by him / them.</p>
5.	<p>The works are required to be completed within a period of 12 Months from the date of issue of acceptance letter.</p>
6.	<p>Bid Security:</p> <p>(a)- Tenderer shall be required to submit the Bid Security with the tender for the due performance with the stipulation to keep offer open till such date as specified in the tender. The Bid Security shall be as Under</p>

	<table border="1"> <tr> <td>Value of the Work</td><td>Bid Security</td></tr> <tr> <td>For All Works</td><td>2% of the estimated Cost of Work</td></tr> </table>	Value of the Work	Bid Security	For All Works	2% of the estimated Cost of Work
Value of the Work	Bid Security				
For All Works	2% of the estimated Cost of Work				
	<p>Note:-</p> <p>(i) The Bid Security shall be rounded off to the nearest Rs.100. This Bid Security shall be applicable for all modes of tendering.</p> <p>(ii) Any Firm recognized by Department of Industrial Policy and Promotion (DIPP) as " Startups" shall be exempted from payment of Bid Security detailed above.</p> <p>(iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.</p> <p>(ACS No-11 of GCC-2022, No.2022/CE-I/CT/GCC-2022/POLICY/Pt.I (E-3320424) dated 13.03.2026</p> <p>(b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resile from his offer or modify the terms and conditions there of in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway.</p> <p>(c) If his tender is accepted this Bid Security mentioned in sub para (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.</p> <p>(As per Clause No. 5 – 1 of Part-I of GCC-2022, with up to date correction slip)</p> <p>(d) The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-VIA and shall be valid for a period of 90days beyond the bid validity period.</p> <p>(As per Clause No. 5 – 2,3 of Part-I of GCC-2022, with up to date correction slip)</p> <p>(e) In case, submission of Bid Security in the form of Bank Guarantee, followings shall be ensured:</p> <ol style="list-style-type: none"> A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days <u>before closing date</u> for submission of bids. (Adv. correction slip No-2, 2022/CE-I/CT/GCC-2022/Policy dated 13.12.2022) Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope. 				

	<p>vii. The envelope shall be addressed to the officer and address as mentioned in the tender document.</p> <p>viii. If the envelope is not sealed and marked as instructed above, the Railway assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.</p> <p>(As per Clause No. 5 – 3 of Part-I of GCC-2022, with up to date correction slip)</p> <p>(e) Subject to exemptions provided under para 5(1) (a) of Part-1 (ITT) of this document, the tender must be accompanied by a Bid Security as mentioned in tender documents, failing which the tender shall be summarily rejected.</p> <p>(f) The Tenderer(s) shall keep the offer open for a minimum period of 60 days (in case of two packet system of tendering 90days) from the date of closing of the Tender. It is understood that the tender documents have been issued to the Tenderer(s) and the Tenderer(s), is / are permitted to tender in consideration of the stipulation on his / their part that after submitting his / their tender subject to the period being extended further, if required by mutual agreement from time to time, he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to _____ Railway. Should the tenderer fail to observe or comply with the foregoing stipulation, the amount deposited or Bank guarantee bond submitted as Bid Security for the due performance of the above stipulation, shall be forfeited to the Railway.</p> <p>(g) If his tender is accepted,</p> <p>(i) the Bid Security mentioned in sub para(a) above deposited in cash through e-payment gateway will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract;</p> <p>(ii) the Bid Security mentioned in sub para(a) above submitted as Bank guarantee bond, Will be encashed as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract.</p> <p>The Bid Security of other Tenderers shall, save as herein before provided, be returned To them, but the Railway shall not be responsible for any loss or depreciation to the Bid Security that may happen thereto while in their possession, nor be liable to pay interest thereon.</p> <p>(h) In case Contractor submits the Term Deposit Receipt/Bank Guarantee Bond towards either the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security so retained as per sub para(c) above, to the Contractor.</p>
7.	<u>SYSTEM OF TENDERING</u>
7.1	Single Packet Tender- In case of tenders costing less than Rs. 10 Crore single packet tender system will be followed and technical & financial offer of the tenderer/s shall be opened and evaluated at the same time.
7.2	<p>Two Packets System of Tendering: With a view to assess the tenders technically without being influenced by the financial bids, 'Two Packets System of tendering' shall be adopted for contract valuing more than Rs. 10 crores or as advised by Railway Board time to time by updated policy guide lines.</p> <p>(As per (a) Clause No. 7A of Part-I of GCC 2022, with up to date correction slip) Intenders having advertised value more than Rs 50 Crore or as mentioned in the tender document, Railway shall conduct Pre Bid Conference(s) with the prospective bidders.</p> <p>(As per (a) Clause No. 7B of Part-I of GCC 2022, with up to date correction slip) Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders.</p> <p>(As per (a) Clause No. 7C of Part-I of GCC 2022, with up to date correction slip) Permission to Bid for a bidder from a country which shares Land boundary with India: Any bidder from the countries sharing a land border with India will be eligible to bid in any</p>

	<p>procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.</p> <p>(As per (a) Clause No. 7D of Part-I of GCC 2022, with up to date correction slip)</p> <p>Clarification of Bids: To assist in the examination, evaluation & comparison and prequalification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.</p> <p>(As per (a) Clause No. 7E of Part-I of GCC 2022, with up to date correction slip)</p>
7.3	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.
7.4	If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled/contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.
7.5	Tenderer should submit the offer with due diligence after going through the tender documents.
8.0	<p>Execution of Contract Document: The tenderer whose tender is accepted shall be required to appear in person at the office of General Manager, Principal Chief Signal & Telecom Engineer, Chief Signal & Telecom Engineer (Project), Divisional Railway Manager or concerned Engineer, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear (there would be no need for appear in person if agreement is signed digitally) and execute the contract agreement within seven days of notice from Railways that the Contract Agreement is ready. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. The Contract Agreement shall be entered into by Railway only after submission of valid Performance Guarantee by the Contractor. In such cases the Railway may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the Railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The failed Contractor shall be debarred from participating in the re-tender for that work.</p> <p>As per clause No. 8 of Part-I of GCC-2022, with up to date correction slip</p>
8.1	<p>In case, the particular work is charged to EBR (IF), than the Indian Railways Finance Corporation (IRFC) shall also be the party in the contract agreement. After submission of valid performance guarantee, the contract agreement shall be entered into between Indian Railways (IR), Indian Railways Finance Corporation (IRFC) and the tenderer, whose tender is accepted. The Contract Agreement shall be signed as per Annexure XXXI of the STD. The format at Annexure IV of GCC shall not be applicable for Contract Agreement of EBR (IF) funded contracts.</p> <p>As per Railway Board's letters no 2018/AC-II/1/57(pt.) dated 20.03.20 for EBR(IF) funded contracts</p>

9.0	<p>Documents to be Submitted Along with Tender</p> <p>(i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / HUF etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.</p> <p>(ii) Following documents shall be submitted by the tenderer:</p> <p>a) Sole Proprietorship Firm:</p> <p>(i) All documents in terms of Para 10 of the Tender Form (Second Sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip..</p> <p>b) HUF:</p> <p>(ii) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.</p> <p>(ii) All other documents in terms of explanatory notes in clause 15 below.</p> <p>c) Partnership Firm:</p> <p>(i) All documents as mentioned in para 18 of the Tender Form (Second Sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip.</p> <p>d) Joint Venture (JV): All documents as mentioned in para 17 of the Tender Form (Second Sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip.</p> <p>e) Company registered under Companies Act 2013:</p> <p>(i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company</p> <p>(ii) A copy of Certificate of Incorporation</p> <p>(iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company.</p> <p>(iv) All other documents in terms Para 10 of the Tender Form (Second Sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip.</p> <p>f) LLP (Limited Liability Partnership):</p> <p>(i) A copy of LLP Agreement</p> <p>(ii) A copy of Certificate of Incorporation</p> <p>(iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP.</p> <p>(iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation intenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment /wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.</p> <p>(v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip.</p>
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	<p>g) Registered Society & Registered Trust:</p> <ul style="list-style-type: none"> (i) A copy of the Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) <p>Annex. I of Part-I of GCC-2022, with up to date correction slip.</p> <p>(iii) If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.</p> <p>(iv) After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/ LLP etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.</p> <p>(v) A tender from JV shall be considered only where permissible as per the tender conditions.</p> <p>(vi) The Railway will not be bound by any change of power of attorney or in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p> <p>As per Clause No. 14 of Tender Form (second sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip</p>
10.0	<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 favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association/Boardresolution, 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 favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.</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.</p> <p>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> <p>As per Clause No. 15 of Tender Form (second sheet) Annex. I of Part-I of GCC-2022, with up to date correction slip</p>
11.0	<p>Employment/Partnership etc. of Retired Railway Employees:</p> <p>(a) Should a tenderer</p> <ul style="list-style-type: none"> i) be a retired Engineer of the gazetted rank or any other gazetted officer working before

	<p>his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, OR</p> <p>ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners/members a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, OR</p> <p>iii) being an incorporated company have any such retired Engineer of the gazetted rank or any other gazetted officer working before his retirement as one of its directors</p> <p style="text-align: center;">AND</p> <p>in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender</p> <p style="text-align: center;">THEN</p> <p>the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender.</p> <p>b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazetted rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.</p> <p>c) Should a tenderer or Contractor being an individual, have member(s) of his family or in the case of partnership firm/ company / joint venture (JV) / registered society / registered trust etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1% in the tendering entity employed in gazetted capacity in the Engineering or any other department of the railway, then the tenderer at the time of submission of tender, will inform the authority inviting tenders the details of such persons</p> <p>Note:-If information as required as per 11.a), b), c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of Standard General Condition of contract.</p> <p>As per Clause No. 16, of Tender Form (second sheet) Annex. I of GCC-2022, with up to date correction slip</p>
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12.0	<p>Omissions & Discrepancies: Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavor has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.</p> <p>As per Clause No. 4 of Part-I of GCC-2022, with up to date correction slip</p>
13.1(A)	<p>Care in Submission of Tenders:</p> <p>(i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer.</p> <p>(As per Clause No. 6 (a)(i) of GCC2022 Part-I with up to date correction slip)</p> <p>(ii) Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.</p> <p>(As per Clause No. 6 (a) (ii) of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority.</p> <p>(As per Clause No. 6 (a) (iii) of G.C.C. 2022 Part-I with up to date correction slip)</p> <p>(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.</p> <p>As per Clause No. 6(a)(iv) of Part-I of GCC-2022, with up to date correction slip.</p>
13.1 (B)	<p>When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf.</p> <p>As per Clause No. 6(b) of Part-I of GCC-2022, with up to date correction slip</p>
13.1 (C)	<p>In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the Documents and payment of Bid Security etc. Tenderers/Prospective bidders are advised to upload their offer well in time. Railway will not be responsible for any delay/non submission of offer due to any reason whatsoever.</p>
13.1 (D)	<p>The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p> <p>As per Clause No. 6 (c) of Part-I of GCC-2022, with up to date correction slip.</p>
13.2	<p>The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as <u>Annexure-II. In addition to Annexure-II, in case of other than company/proprietary firm Annexure -IIA shall also be submitted by each member of a partnership Firm/JV/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP) etc. as the case may be.</u> Non submission of above certificate by the</p>

	<p>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.</p> <p>(Adv. correction slip No-2, 2022/CE-I/CT/GCC-2022/Policy dated 13.12.2022)</p> <p>As per Clause No. 6.1 of Part-I of GCC-2022, with up to date correction slip.</p>
14.0	<p><u>RIGHT OF RAILWAY TO DEAL WITH TENDERS</u></p> <p>The Railway reserves the right of not to invite tenders for any of Railway work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action. In case if tender is accepted in part by Railway administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer.</p> <p>As per Clause No. 7, of Tender Form (second sheet) Annex. I of GCC-2022, with up to date correction slip</p>
14.1	<p>If, the Railway decides to negotiate, in view to bring down the rates, the tenderer, who is called for negotiation, shall furnish the following form of declaration before commencement of the negotiation:</p> <p>I/we do declare that in the event of failure of the contemplated negotiations relating to Tender No.dated..... Opened on my original tender shall remain open for acceptance on its original terms and conditions up to the date specified in the tender or the date extended by mutual agreement from time to time.</p>
14.2	<p>The tenderer/s are required to quote his/their rates as % (percentage) Above/Below/At Par in figures on IREPS while submitting his/their offer.</p>
14.3	<p><u>Pre Bid Conference:</u></p> <p>In tenders having advertised value more than Rs 50 Crore or as mentioned in the tender document, Railway shall conduct Pre Bid Conference(s) with the prospective bidders.</p> <p>As per Clause No. 7B, of Tender Form (second sheet) Annex. I of GCC-2022, with up to date correction slip.</p>
15.0	<p><u>ELIGIBILITY CRITERIA</u></p>
15.1	<p>Technical Eligibility Criteria</p> <p>(a) The tenderer must have successfully completed or substantially completed anyone of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:</p> <ul style="list-style-type: none"> (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work each costing not less than the amount equal to 60% of advertised value of the tender. <p>NOTE- (i) Similar nature of work for minimum eligibility criteria in S&T works tender in this case should be as per NWR/HQ/Office Jaipur letter no.SG.176/0/Vol-II Dated 06.05.2022 as given below</p> <p>NOTE- (ii) As per MINISTRY OF RAILWAYS ,RAILWAY BOARD (रेलवे बोर्ड) Letter No.2013/Sig/23/01/(pt) Dup dated 17.02.2022</p>

- i.) **OEM's authorization for breakup of cards/ modules at the time of bidding as contained in Para 5 of letter referred above is dispensed with.**
- ii.) **The requirement of submitting authorization from RDSO approved OEM at the time of bidding as contained in Para 7 of letter referred above is dispensed with. The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirements.**

S.N.	Type of Tendered Work	Similar Nature work
A.3	Any work related to EI including alterations in existing EI (involving indoor only) AND/OR Any work related to EI including alterations in existing EI (involving both indoor and outdoor) AND/OR Any Automatic Signalling work (involving indoor only) AND/OR Any Automatic Signalling work (involving both Indoor and Outdoor) AND/OR Any CTC/TMS work with or without Automatic Signalling (involving indoor only) AND/OR Any CTC/TMS work with or without Automatic Signalling (involving both indoor and outdoor)	Any RRI/PI/EI/MACLS Supply, Installation Testing, Commissioning Signalling work OR Any RRI/PI/EI/MACLS Alterations Signalling work OR Any CTC/TMS Work

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

- (i) Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or
- (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or
- (iii) One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender.

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

- (b) (2) In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity.
- (b) (3) To evaluate the technical eligibility of 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

	<p>i.e., partly himself and remaining through subcontractor, with prior approval of Chief Signal & Telecom 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 fulfillment 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 sub-letted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract.</p> <p><i>Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway.</i></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 Signal & Telecom Engineer in writing.</p> <p>Note for Item 15.1:</p> <p>Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.</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> <p>As per Clause No. 10.1 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, updated as per RB Letter No.2022/CE-I/CT/GCC-2022/Policy Dated-14.07.22 with up to date correction slip.</p>
15.2	<p>Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or “V” whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited.</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, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p> <p>As per Clause No. 10.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-</p>

	2022, updated as per RB Letter No.2022/CE-I/CT/GCC-2022/Policy Dated-14.07.22 with up to date correction slip.
15.3	Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-D. (For tenders costing more than Rs 20 crore) As per Clause No. 10.3 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.
15.4	No Technical and Financial credentials are required for tenders having advertised value up to Rs 50 lakh. As per Clause No. 10.4 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.
15.5	<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> <p>[Explanation for clause 15 including clause 15.1 to 15.5]- Eligibility Criteria:</p> <ol style="list-style-type: none"> 1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. 2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials. 3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials. 4. In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work. In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work. 5. If a bidder has successfully completed a work as subcontractor and the work Experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet), the same shall be considered for the purpose of fulfillment of credentials. 6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount(if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.

7. In case of newly formed partnership firm, the credentials of individual partners from previous 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.
9. In case of existing partnership firm if any other 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.]

Note to Para 15

	<p>(i) The criteria for completed works shall be as under :-</p> <p>(a) Entire work has to be completed in all respects as per contract agreement. Part completed work shall not be considered.</p> <p>(ii) Completion certificate from following organizations shall only be considered:-</p> <p>(a) For tenders costing below Rs.50.00 Crores. The work(s) should have been directly awarded to the tenderer by Govt. Organization/ Semi Govt. Organization/ Public Sector Undertaking / Autonomous bodies/ Municipal Bodies/Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender</p> <p>(b) For tenders costing Rs.50.00 Cr. and above The work(s) should have been directly awarded to the tenderer by Central/State Governments/Public Sector Undertaking/Public Funded Institutions/Municipal Bodies/Railways Siding owners/ 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 opening of tender/ Concessionaire (to whom the work is awarded by Indian Railways /CPWD /NHAI/ PWD/State Road Development Corporation on PPP/DBFOT or any other mode)/ The credentials of a wholly owned subsidiary of a parent company will also be considered in respect of works mentioned above if tender is submitted by the parent company.</p> <p>(c) Completion certificate should be as per proforma given in Annexure- IV(A) or IV(B) or IV(C), as applicable or in the format containing all information required as per the Annexure-IV(A) or IV(B) or IV(C).</p> <p>(d) Work experience certificate issued by Public listed company shall be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate the relevant copy of work order, bill of quantities bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received an copy of final/last bill paid by company in support of above work experience certificate.</p> <p>(iii) Details of works physically completed is to be submitted in the proforma as per 'Annexure-III'/III(A)/III(B).</p> <p>(iv) The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, should be considered. In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered. However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower should be considered for judging eligibility.</p> <p>(v) The amount given at Sr. No. 11 in proforma vide Annexure-IV for the completion certificate will be the value of completed work, if nomenclature of work as given in completion certificate matches with similar nature work.</p> <p>(vi) The amount mentioned at Sr. No. 12 in 'Annexure-IV' for the completion certificate shall be the value of completed work if the nomenclature of completed work includes additional components of work which are not matching with similar nature of works.</p> <p>(vii) Certificate from private individuals for whom such works are executed shall not be considered for eligibility.</p>
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	<p>(viii) Conditional tenders are liable to be rejected straight away. Railway reserves the right to reject such tender summarily without assigning any reasons whatsoever.</p> <p>As per Clause No. 10 of Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip</p>
16.0	The list of documents to be uploaded by the tenderer(s) for this tender.
16.1	Following documents are common for all types of firm i.e. Sole proprietorship, Partnership, Limited Liability Partnership Firm, Registered Society/ Trust, Limited Company or JV.
(a)	Firm details as per Annexure-I (Mandatory) .
(b)	A Copy of the Certificate as per proforma given in Annexure-II & IIA (Mandatory) . As per Clause No.6.1 of Part-I of GCC-2022, with up to date correction slip.
(c)(i)	<p>List of similar nature of works physically completed in all respects during last 7 years, ending last day of month previous to one in which tender is invited shall be submitted as per Proforma given in Annexure-III/IIIA & III(B), for works</p> <p>(i) directly awarded by Govt./Semi Govt./Public sector undertaking / Autonomous bodies /Municipal bodies/ Railways Siding owners /</p> <p>(ii) Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender</p> <p>Note- Works under item (iii) are to be submitted only for tenders costing Rs.50.00 Cr. and above. As per Clause No.10.1 (a) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.</p>
(ii)	<p>Details of work of similar nature successfully completed during last seven years, ending last day of month previous to the one in which tender invited and detailed in Annexure III(bifurcated as per components of tender schedule) to be submitted by tenderer along with Annexure-III in case of tender having composite nature of work , having distinct components and having separate schedule for each component having value more than two crore (Annexure-III(A) Mandatory in case of tender for composite nature of work.</p> <p>As per Clause No.10.1(b) (i) &(ii) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.</p>
(d)	<p>Attested copy of Completion Certificate of works mentioned in para (c) above from the Organizations with whom they worked as per proforma given in Annexure-IV(A) or IV(B) or IV(C) as applicable. (Mandatory)</p> <p>As per Clause No. 11(i) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.</p> <p>Note -In case, completion certificate is issued by public listed company (Annexure IV(C)).</p> <p>Following documents regarding the Public listed company are required to be submitted along with the certificate.(Mandatory)</p> <p>Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII/VIII(A).(Mandatory)</p> <p>(i) The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested.</p> <p>(ii) The copy of document of incorporation/ registration of the Public listed company (should be at least 5 years prior to date of opening of tender), duly self-attested.</p> <p>(iii) The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested.</p> <p>Tenderer shall also submit the relevant copy of work order, bill of quantities, bill wise</p>

	details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.
(e)	List of works on hand, existing commitments and balance amount of ongoing works as per format given in ‘ Annexure-V ’ duly verified by Chartered Accountant to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 crores) As per Clause No.10.3 Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022,with up to date correction slip.
(f)	A statement showing construction works executed and payment received during the current and last three financial years immediately preceding the current financial year, up to date of opening of tender taking into account the completed as well as work in progress as per Annexure-XIX, XIX(A) on the letter head of Chartered Accountant, to evaluate bid capacity of the tenderer (Mandatory for tender value more than Rs. 20 Crores) As per Clause No.10.3 Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.
(g)	List of plants & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work in Annexure–VI. As per Clause No.11(iii) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.
	Annexure -VIB for financial criteria contractual turnover. item no k Annexure VIII/VIIIA are to be replaced with Annexure VIB of GCC 2022.
(h)	List of Personnel, Organization available on hand and proposed to be engaged for the subject work in Annexure –VII. As per Clause No.11(iii) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022,with up to date correction slip.
(i)	The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure- VIA and shall be valid for a period of 90days beyond the bid validity period. As per Clause No.5(2)of Part-I of GCC-2022,withup to date correction slip.
(j)	Tender document cost should be submitted by the tenderer only through net banking or payment GATE WAY available on IREPS.
(k)	Contractual Receipts for the last three years and current financial year with supporting documents required as per Annex. VIII/VIII(A)(Mandatory.) As per Clause No.10.2, updated as per RB Letter No.2022/CE-I/CT/GCC-2022/Policy Dated-14.07.22 and 11(ii) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.
(l)	Self attested copy of Permanent Account Number (PAN) issued by Income Tax Department. As per Clause No.14(i) Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip.
(m)	The tenderers are required to submit the information and particulars regarding retired Railway Engineer(s)/Officer(s) of the Gazetted rank and regarding Relative(s) employed in Gazetted capacity on North Western Railway as per proforma given in Annexure XXIII. (Mandatory). As per Clause No. 16, Tender Form (second Sheet) of Annex. I of Part-I of GCC-2022, with up to date correction slip)
16.2	In addition to Para 16.1 above certain more documents are to be submitted by tenderers as per status of their firms and are mandatory . These documents are listed below

16.2.1	<p><u>For Sole Proprietorship firm</u> Affidavit as per proforma given of Annexure –IX . or Annexure-IXA (Mandatory) (duly executed on stamp paper and notarized). All documents in terms of Para 15 above. As per Clause No. 14(ii)(a) & 15 Annex. I Part-I of GCC 2022, with up to date correction slip</p>
16.2.2	<p><u>For Partnership firm</u> (a) A copy of Partnership Deed(notarized prior to date of tender opening as per the Indian Partnership Act.) Special Power of attorney to be submitted by Partnership firm in favour of the individual to sign the tender on behalf of the firm and create liability against the firm as per proforma given in Annexure-XIII (duly registered with the Registrar or notarized). (a) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of opening of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (b) All documents in terms of Para 15 above. As per Clause No. 14(ii)(c) and clause 15, 18.2 and 18.11 of Annex. I Part-I of GCC-2022, with up to date correction slip)</p>
16.2.3	<p><u>For Company registered under Companies Act 2013</u> a) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company. b) A copy of Certificate of Incorporation. A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. as per proforma given in Annexure-XV&XV(A) (duly registered with the Registrar or notarized). (d) An undertaking that the Company is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which the Company was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. (e) All documents in terms of Para 15 above. As per Clause No. 14(e) Annex. I Part-I of GCC-2022, with up to date correction slip</p>
16.2.4	<p><u>For LLP (Limited Liability Partnership) Firm Registered under LLP Act 2008</u> a) A copy of LLP Agreement. b) A copy of certificate of Incorporation and c) A copy of resolution passed by partner of LLP firm for submitting tender by LLP firm and to deal with tender on behalf of the firm as per proforma given in Annexure-XXI. d) Special Power of Attorney/ Authorization issued by LLP firm in favour of the individual to sign the tender on behalf of the LLP firm and create liabilities against the LLP as per proforma given in Annexure-XX (duly registered with the Registrar or notarized). e) An undertaking that the LLP is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of JV in which the LLP was / is a member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.</p>

	<p>f) All documents in terms of Para 15 above. As per Clause No. 14(f) Annex. I Part-I of GCC-2022, with up to date correction slip</p>
16.2.5	<p><u>For Registered Society & Registered Trust</u></p> <p>a. A copy of the certificate of registration. b. A copy of Memorandum of Association of Society/Trust Deed. c. A copy of Special Power of Attorney in favour of the individual to sign the tender documents and create liabilities against the Registered Society/ Trust as per proforma given in Annexure-XXII(duly registered with the Registrar or notarized). d. All documents in terms of Para 15 above. As per Clause No. 14(g) Annex. I Part-I of GCC-2022, with up to date correction slip</p>
16.2.6	<p><u>For JV firm</u> Following documents are mandatorily to be submitted by constituents of the JV firm depending upon their status. As per clause no. 17.0 Annex. I Part-I, GCC-2022, with up to date correction slip</p>
	<p>a) All the Members of JV shall certify that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders/contract on the date of opening of bids either in their individual capacity or as a member of the JV in which they were/are members. As per clause no. 17.14.4 Annex. I Part-I, GCC-2022, with up to date correction slip</p>
	<p>b) Memorandum of Understanding of JV as per pro forma given in Annex. X (duly executed on stamp paper and notarized).</p>
	<p>c) Power of Attorney/authorization duly Notarized by all JV constituents, in favour of the individual under whose digital signature key the tender document shall be uploaded on behalf of JV for signing the tender document on behalf of the JV (Standard Performa as per Annexure-X(A)) As per clause No. 17.6, 17.12 of Annex. I Part-I of GCC-2022, with up to date correction slip.</p>
16.2.6.1	<p><u>In case one or more members of JV is/are Proprietary Firm or HUF(Hindu Undivided Family) the following documents shall be Uploaded/Submitted</u></p> <p>(a) A copy of notarized affidavit on Stamp Paper declaring that he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF (Annexure-IX(A)). A copy of Special Power of Attorney to be submitted by Sole Proprietor or HUF participating as member of JV firm as per proforma given in Annexure-XII(duly registered with the Registrar or notarized). As per Clause No. 15 & 17.14.2 Annex. I of Part-I GCC-2022, with up to date correction slip.</p>
16.2.6.2	<p><u>In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted:</u></p> <p>(a) A notarized copy of Partnership Deed(notarized prior to date of tender opening as per the Indian Partnership Act.). (b) A copy of consent of all the Partners or individual authorized by partnership firm to enter into JV Agreement as per pro forma given in Annexure-XI (duly executed on stamp paper). (c) Special Power of attorney to be submitted by Partnership firm in favour of the individual to sign the MOU/JV agreement on behalf of the Partnership Firm and to create liability against the firm as per proforma given in Annexure-XVIII (duly registered with the Registrar or notarized). Note: Authorization given in POA only will be considered irrespective of any authorization that may have given in Partnership Deed. In case of non-submission of POA or invalid POA, offer is liable to be rejected. As per Clause 17.14.1 and clause 15 & 18.2 of Annex. I Part-I GCC-2022, with up to date correction slip</p>

16.2.6.3	<p><u>In case one or more members of the JV is/are companies, the following documents shall be submitted</u></p> <ul style="list-style-type: none"> a) A Copy of Memorandum & Articles of Association of Company. b) A Copy of resolution passed by Board of Directors of the company, permitting the company to enter into a JV agreement to be submitted as per Annexure-XVII. c) A copy of Certificate of Incorporation. d) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, , sign MOU/JV Agreement on behalf of the company and create liability against the company, as per proforma given in Annexure-XII(duly registered with the Registrar or notarized). <p>As per Clause No. 17.14.3 of Annex. I Part-I GCC-2022, with up to date correction slip</p>
16.2.7	<p><u>For HUF</u></p> <ul style="list-style-type: none"> (a) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of ‘Karta’ of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (Standard proforma as per Annexure XXVIII). (b) An undertaking that the HUF is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which HUF was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract. (c) All documents in terms of Para 15 above. <p>As per Clause No. 14(ii)(b) of Annex. I Part-I GCC-2022, with up to date correction slip.</p>
	<p><u>Note to Para 16</u></p> <ol style="list-style-type: none"> 1. The tenderers shall submit a certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-II as mentioned in clause No. 16.1(b). Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document. <p>As per Clause No. 11(iv) Annexure 1 part I of GCC-2022, with up to date correction slip</p> <p>It will not be obligatory on the part of Tender Committee to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender is concerned.</p> <ol style="list-style-type: none"> 2. The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. 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 thereunder. <p>In case of any information submitted by tenderer is found to be false forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security Deposit besides banning of business for a period of upto five years.</p> <p>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 Deposit (BID SECURITY), Performance Guarantee and Security Deposit available with the railway</p>

	<p>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> <p>As per Clause No. 11(v), 11(vi) Annexure 1 part I of GCC-2022, with up to date correction slip</p>
	<p>3. No post tender submission of documents shall be permitted in respect of tender. However, only clarification can be called for by Railway in respect of any part / document submitted by the tenderer which shall be responded to by the tenderer within 10 working days of the date of issue of such letter for clarifications, failing which the offer shall be dealt with as per available documents.</p>
	<p>4. The documents mentioned 'mandatory' in clause No. 16 above are required to be uploaded by the contractor with tender document in single packet system or with technical bid in Two Packet system. If any of these documents is not uploaded along with the tender, the offer shall be summarily rejected</p>
	<p>5. In addition to above Tenderer have to certify that neither I /We (name of the sole Proprietor firm/ Partnership Firm/Limited Company/ LLP/Registered Society/Trust / JV firm) nor any of the partner or partnership firm/ LLP /Member of Registered Society/ Trust / Constituent of JV firm including partner of partnership firm in JV has/ have been black listed or debarred by Railway or any other Ministry /Department/ Public Sector Undertaking of the Government of India/ any State from participation in tenders/contract on the date of opening of bids either in our individual capacity or in any firm in which we are partners.</p> <p>6. After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.</p>
17.0	Participation of Partnership Firms in works tenders
17.1	<p>The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender:</p> <p>(i) A notarized copy of partnership deed or a copy of the Partnership deed registered with the Registrar.</p> <p>(ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm.</p> <p>(iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.</p> <p>Note: Authorization given in POA only will be considered irrespective of any authorization that may have given in Partnership Deed. In case of non-submission of POA or invalid POA, offer is liable to be rejected.</p> <p>All conditions as per Clause No. 18.1 to 18.11 of Tender Form (second Sheet) Annex. I Part-I of GCC-2022, with up to date correction slip will be applicable.</p>
17.2	<p>Evaluation of eligibility of a partnership firm: Technical and financial eligibility of the firm shall be adjudged based on satisfactory fulfillment of the eligibility criteria laid down in Clause 10& 18 of Tender form second sheet Annex. I of Part-I of GCC-2022, with up to date correction slip for the partnership firm:</p>

18.0	Participation of Joint Venture (JV) in Works Tender: This Clause shall be applicable for works tenders wherein tender documents provide for the same. As per Clause No. 17 of Tender form second sheet Annex. I of Part-I of GCC-2022, with up to date correction slip
18.1	JV firms will be permitted participation in tender costing rupees more than Rs. 10 crores.
18.2	Documents to be enclosed by the JV Firm along with the tender: As per Clause No. 17.14.1 to 17.14.6 and clause 15 of Tender form second sheet Annex. I Part-I of GCC-2022, with up to date correction slip
18.3	Credentials & Qualifying Criteria Technical, financial eligibility and Bid capacity of the JV firm shall be adjudged based on satisfactory fulfillment of the following criteria: As per Clause No. 17.15 of Tender form second sheet Annex. I Part-I of GCC-2022, updated as per RB Letter No.2022/CE-I/CT/GCC-2022/Policy Dated-14.07.22 with up to date correction slip
19.0	The tenderer shall submit the original copies of the documents as per Annexure II, IX, IX(A), X, X(A), XI, XII, XIII, XIV, XV, XV(A), XVII, XVIII, XX, XXI, XXII, XXIII, XXIV, XXV, XXVI and XXVII, XXVIII as applicable for Sole Proprietor/Partnership firm/LLP/Registered Society & Trust /Limited Company/JV Firms as and when required by the Railway for the verification. If the required documents are not submitted by the tenderer or any discrepancy between the scanned uploaded documents and original documents then the offer of the tenderer will be summary rejected and the action will be taken as per the various provisions of Affidavit to be submitted by the tenderer as per Annexure-II.
20.0	Security Deposit: The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfillment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, to the Contractor. Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, or may be recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the Railway may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract. The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract. Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times. As per Clause No. 16.(1) Part-II of GCC-2022, with up to date correction slip.

20.1	<p>(i) Refund of Security Deposit: Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after, the following:</p> <p>(a) Final Payment of the Contract as per clause 51.(1) and</p> <p>(b) Execution of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and</p> <p>(c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50.(1), in case applicable.</p> <p>As per Clause No. 51.(1) and 16.(2)(i) Part-II of GCC-2022, with up to date correction slip</p>
20.2	<p>Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions, the Security Deposit already with railways under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of these conditions, the Security Deposit shall not be forfeited.</p> <p>As per Clause No. 16.(2)(ii) Part-II of GCC-2022, with up to date correction slip</p>
21.0	<p>No interest shall be payable upon the Bid Security and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub-Clause 16.(4)(b) of this clause will be payable with interest accrued thereon.</p> <p>As per Clause No. 16.(3), Part-II of GCC-2022, with up to date correction slip</p>
22.0	<p>Performance Guarantee</p> <p>The procedure for obtaining Performance Guarantee is outlined below:</p> <p>(a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.</p> <p>In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect.</p> <p>The failed Contractor shall be debarred from participating in re-tender for that work.</p> <p>16(4) Performance Guarantee:</p> <p>(b) 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) in any of the following forms</p> <p>i) A deposit of Cash;</p> <p>ii) Irrevocable Bank Guarantee;</p> <p>iii) Insurance Surety Bond as per Annexure-XVII</p> <p>Note:-</p> <p>In case of extension of Date of Completion, selected bidder needs to submit extended Insurance Surety Bond/Fresh Insurance Surety Bond/fresh Performance Security, In any form as given above, before expiry of existing Insurance Surety Bond.</p> <p>iv) Government Securities including State Loan Bonds at 5% below the market value;</p> <p>v) Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India;</p> <p>vi) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India;</p>

vii) Deposit in the Post Office Saving Bank; viii) Deposit in the National Savings Certificates ix) Twelve years National Defence Certificates x) Ten years Defence Deposits; xi) National Defence Bonds and xii) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of Sr.DFM-Jodhpur (Free form any encumbrance) may be accepted. (If instructed as per tender inviting officer will be issued in favour of FA & CAO/S&C/NWR)			
New Para 16(4) (h) of Part-II of GCC-22		(h) if a tender is accepted on the quoted rates of bidder which is below the advertised tender value, an additional performance security shall be submitted by the bidder as below	
		Bid quoted in % of advertised cost	Additional Performance Guarantee (%)
		Below 0-5% (Inclusive)	Nil
		Below 5%	5%
<p>(ACS No-11 of GCC-2022, No.2022/CE-I/CT/GCC-2022/POLICY/Pt.I (E-3320424) dated 13.03.2026.</p> <p>Note:- The instruments as listed above will also be acceptable for Guarantees in case of mobilization advance. All the instruments mentioned in (i) to (xii) above should be in favour of Sr. DFM-Jodhpur (If instructed as per tender inviting officer will be issued in favour of FA/CAO/S&C/NWR)</p> <p>(b) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.</p> <p>(c) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.</p> <p>(d) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.</p> <p>(e) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.</p> <p>The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:</p> <p>(i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.</p> <p>(ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.</p> <p>(iii) The Contract being determined or rescinded under clause 62 of these conditions.</p> <p>As per Clause No.16.(4), Part-II of GCC-2022, with up to date correction slip</p>			

22.1	MEASUREMENTS OF CONTRACTOR WORKS.
22.2	<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 favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association/Board resolution, failing which tender shall be summarily rejected.</p> <p>A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.</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> <p>As per Clause No. 15 of Annexure I part 1 of GCC-2022, with up to date correction slip</p> <p>Note:</p> <p>Procedure order for Measurement, Test Check limit, Material passing & Payments etc, shall be followed as per Railway Board letter no: 2016/CE-1/CT/14/Measurement Dated: 02/08/2024</p>
22.3	<p>Measurement of works by Railway:</p> <p>The Contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Engineer or the Engineer's representative in accordance with the rules prescribed for the purpose by the Railway. The quantities for items the unit of which in the accepted Bill(s) of Quantities is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted Bill(s) of Quantities is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the Contractor who shall be present at the site and shall sign the results of the measurements(which shall also be signed by the Engineer or the Engineer's representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measurements.</p> <p>Failing the Contractor's attendance, the work may be measured up in his absence and such measurements shall, notwithstanding such absence, be binding upon the Contractor whether or not he shall have signed the measurement books provided always that any objection made by him to measurement shall be duly investigated and considered in the manner set out below:</p> <p>(a) It shall be open to the Contractor to take specific objection to any recorded measurements or Classification on any ground within seven days of the date of such measurements. Any re measurement taken by the Engineer or the Engineer's representative in the presence of the Contractor or in his absence after due notice has been given to him in consequence of objection made by the Contractor shall be final and binding on the</p>

	<p>Contractor and no claim whatsoever shall thereafter be retrained regarding the accuracy and Classification of the measurements.</p> <p>(b) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.</p> <p>(As per Clause No. 45 (i), Part-II of GCC-2022, with up to date correction slip)</p>
22.3.1	<p>Measurement of Works by Contractor's Authorized Representative (In case the contract provides for the same):</p> <p>(a) The Contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Contractor's authorized Engineer in accordance with the rules prescribed for the purpose by the Railway. The quantities for items the unit of which in the accepted Bill(s) of Quantities is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted Bill(s) of Quantities is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the Engineer.</p> <p>The date and time of test checks shall be communicated to the Contractor who shall be present at the site and shall witness the test checks, failing the Contractor's attendance the test checks may be conducted in his absence and such test checks shall notwithstanding such absence be binding upon Contractor provided always that any objection made by Contractor to test check shall be duly investigated and considered in the manner set out below:</p> <p>(i) It shall be open to the Contractor to take specific objection to test checks of any recorded measurement within 7 days of date of such test checks. Any re-test check done by the concerned Railway's authority in the presence of the Contractor or in his absence after due notice given to him in consequent of objection made by the Contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements.</p> <p>(ii) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.</p> <p>(b) Incorrect measurement, actions to be taken :</p> <p>If in case during test check or otherwise, it is detected by the Engineer that agency has claimed any exaggerated measurement or has claimed any false measurement for the works which have not been executed; amounting to variation of 5% or more of claimed gross bill amount, action shall be taken as following:</p> <p>(i) On first occasion of noticing exaggerated/ false measurement, Engineer shall recover liquidated damages equal to 10% of claimed gross bill value.</p> <p>(ii) On any next occasion of noticing any exaggerated/false measurement, railway shall recover liquidated damages equal to 15% of claimed gross bill value. In addition the facility of recording of measurements by Contractor as well as release of provisional payment shall be withdrawn. Once withdrawn, measurements shall be done by railway as per clause 45(i) above.</p> <p>As per Clause No. 45 (ii), Part-II of GCC-2022, with up to date correction slip</p>
Note	<p>'Contractor's authorized Engineer' shall mean a graduate Engineer or equivalent, having more than 3 year experience in the relevant field of construction work involved in the contract, duly approved by Engineer.</p> <p>As per Clause No. 1.(1)(q), Part-II of GCC-2022, with up to date correction slip</p>

23.0	PAYMENT OF CONTRACTUAL WORKS
23.1	<p>“On-Account” Payments: The Contractor shall be entitled to be paid from time to time by way of "On-Account" payment only for such works as in the opinion of the Engineer he has executed in terms of the contract. All payments due on the Engineer's/Engineer's Representative's certificates of measurements or Engineer's certified “Contractor's authorized Engineer's measurements” shall be subject to any deductions which may be made under these presents and shall further be subject to, unless otherwise required by Clause 16 of these Conditions, a retention of six percent by way of Security Deposits, until the amount of Security Deposit by way of such retentions shall amount to 5% of the total value of the contract provided always that the Engineer may by any certificate make any correction or modification in any previous certificate which shall have been issued by him and that the Engineer may withhold any certificate, if the works or any part thereof are not being carried out to his satisfaction.</p> <p>As per Clause No. 46.(1) Part-II of GCC-2022, with up to date correction slip</p>
23.2	<p>On account Payments Not Prejudicial To Final Settlement</p> <p>"On-Account" payments made to the Contractor shall be without prejudice to the final making up of the accounts (except where measurements are specifically noted in the Measurement Book as "Final Measurements" and as such have been signed by the Contractor and Engineer/Engineer's Representative) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such accounts nor of any particular quantity of work having been executed nor of the manner of its execution being satisfactory.</p> <p>As per Clause No. 46.(3) Part-II of GCC-2022, with up to date correction slip</p>
23.3	<p>Rounding off Amounts: - The total amount due on each certificate shall be rounded off to the nearest rupee, i.e. sum less than 50 paise shall be omitted and sums of 50 paise and more upto ₹1 will be reckoned as ₹ 1.</p> <p>As per Clause No. 46.(2) Part-II of GCC-2022, with up to date correction slip</p>
23.4	<p>Final Payment: On the Engineer's certificate of completion in respect of the works, adjustment shall be made and the balance of account based on the Engineer or the Engineer's representative's certified measurements or Engineer's certified “contractor's authorized engineer's measurements” of the total quantity of work executed by the Contractor upto the date of completion and on the rates accepted in Bill(s) of Quantities and for extra works on rates determined under Clause 39 of these Conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having signed delivered to the Engineer enclosing either a full account in detail of all claims he may have on the Railway in respect of the works or having delivered No Claim Certificate and the Engineer having after the receipt of such account given a certificate in writing that such claims are not covered under excepted matter i.e. Clauses 7(j), 8, 18, 22(5), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2) and 62(1), 63(iv) and 63.2.11 of Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found to be in good and substantial order, that all properties, works and things, removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the Railway for or in the respect of damage or loss by from or in consequence of the works, have been satisfied agreeably and in conformity with the contract.</p> <p>As per Clause No. 51.(1) of Part-II GCC-2022, with up to date correction slip.</p>
24.0	<u>INSTRUCTIONS OF MODE OF PAYMENT IN WORKS TENDERS OR SERVICE TENDER THROUGH LETTER OF CREDIT (LC)</u>

24.1.1	For all the tenders having advertised cost of Rs. 10 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement.
24.1.2	This option of taking payment through LC arrangement has to be exercised in IREPS (Indian Railway Electronic procurement System - the e-application on which tenders are called by Railways) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
24.1.3	The option so exercised, shall be an integral part of the bidder's offer.
24.1.4	The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.
24.1.5	In case tenderer opts for payment through LC following shall be the procedure to deal release of payment through LC:
	(a) The LC shall be a sight LC,
	(b) The contractor shall select his Advising/Negotiating bank for LC. The incidental cost towards issue of LC and its operation thereof shall be borne by the contractor.
	(c) SBI, New Delhi, Main Branch will be the nodal branch for issue of LCs based on online requests received from Railway Accounts Units for tenders opened in financial year 2019-19. 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 finalized by the engineer in consultation with the contractor on the basis of expected progress of work.
	(e) The LC terms and conditions shall inter-alia indemnify and save harmless the Railway from and against all losses, claims and demands of every nature and description brought or recovered against the Railway by reason of any act or omission of the contractor, his agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by Railways on this account shall be considered as reasonable compensation and paid by contractor.
	(f) The LC terms and conditions shall inter-alia provide that Railways will issue a Document of Authorization (format enclosed as Annexure-‘B’) after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.
	(g) The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorization.
	(h) The Document of Authorization shall be issued by Railway Accounts Office against each bill passed by Railway.
	(i) On issuance of Document of Authorization, a copy of Document of Authorization shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorization shall also be sent by Railway Accounts Office to Railway's bank (Local SBI Branch).

	(j) The contractor shall take print out of the Document of Authorization available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.
	(k) The payment against LC shall be subject to verification from Railway's Bank (Local SBI Branch).
	(l) The contractor's bank (advising bank) shall submit the documents to the Railway's Bank (Local SBI Branch).
	(m) The railway's bank (issuing bank) shall, after verifying the claim so received with reference to the digitally signed Document of Authorization received from Railway Accounts Office, release the payment to contractor's bank (advising bank) for crediting the same to contractor's account.
	(n) Any number of bills can be dealt within one LC, provided the sum total of payments to contractor is within the amount for which LC has been opened.
	(o) The LC shall be closed after the release of final payment including PVC amount, if any to the contractor.
	(p) The release of performance guarantee or security deposit shall be dealt directly by railway with the contractor i.e., not through LC.
24.2	For opening of LC, executive department shall make a request letter to concerned Accounts Department on a format, placed as Annexure-‘A’ .
25.0	<u>GUIDELINES FOR ELECTRONIC REVERSE AUCTION FOR WORKS, SERVICE CONTRACTS:</u> <u>(Ref:- RB Letter No.2017/Trans/01/Policy/Pt-S dated 28-03-2018)</u>
(a)	Selection criteria for tender cases of Works and Services proposed through Reverse Auction (e-RA) route:
(b)	Following method of purchase through Reverse Auction shall be adopted for Works and Service tenders valued more than Rs. 50 Cr. in each case.
(c)	The process of procurement through Reverse Auction shall be followed only in case of tenders where there are at least three technically eligible offers.
25.2	Financial Bids in single currency/parameter only shall be allowed.
	<u>Procedure for award of contracts through Reverse Auction</u>
(a)	The procedure discussed herein shall be fully implemented through IREPS. Any reference to Reverse Auction in these instructions shall imply e-RA.
(b)	Conduct and reporting of Reverse Auction shall be as per Annexure-C .
25.2.1	The essential technical and commercial parameters will be specified in a transparent manner in the tender document. No deviation to such essential Technical & Commercial conditions shall be permitted to the tenderer(s) in the electronic bid form.
	<u>Technical Bid and Initial Price Offer :</u>
(a)	In case of Works and Services related tenders, e-RA shall be adopted only for those cases where evaluation is on the basis of single parameter/currency.
(b)	Bidder shall be simultaneously required to electronically submit a Technical & Commercial Bid and Initial Price Offer. The offers found eligible for award of contract/meeting eligibility criteria shall be categorized as Qualified for Award of Contract for the purpose of e-RA.

(c)	Offers not complying with essential technical & commercial requirements of the tender shall be declared as Ineligible for award of contract.		
25.2.2	Initial Price Offer of only those bidders categorized as Qualified for Award of contract shall be opened and tabulated by system separately.		
(a)	<u>Financial Bid</u> Financial Bid shall comprise of Final Price Offer obtained through Reverse Auction. Following conditions and procedure shall be followed in selection of bidders for conduct of Reverse Auction:		
	Selection of vendors for Reverse Auction for award of Contract in Works and Services tenders :		
(b)	Number of tenderers Qualified for Award of contract/Bulk order	Number of tenderers to be selected for Reverse Auction.	Remarks
	< 3	NIL*	The bids disallowed from participating in the Reverse Auction shall be the highest bidder(s) in the tabulation of Initial Price Offer. In case the highest bidders quote the same rate, the Initial Price Offer received last, as per time log of IREPS, shall be removed first, on the principle of last in first out, by IREPS system itself.
	3 to 6	3	
	More than 6	50% of Vendors Qualified for Bulk Order/ award of Contract (rounded off to next higher integer).	
	Note:- (i) * If the number of tenderers qualified for Award of Contract is less than 3 RA shall not be done and tender may be decided on the basis of Initial Price Offer(s). (ii) Make in India criteria: All bidders eligible for benefits under Public Procurement (Preference to Make in India) Order – 2017, found Qualified for Award of Contract and are within the specified range of price preference of lowest Initial Price Bid shall be permitted to participate in the Reverse Auction, irrespective of their interse ranking on the basis of Initial Price Bid. Such bidders shall be over and above the number of vendors selected for Reverse Auction, as per Para 24.2.2(a) above. (iii) During Reverse Auction process, bidders shall not be allowed to bid a rate higher than the lowest Initial Price Offer.		
25.2.3	Reverse auction among bids categorized as Qualified for Award of Contract shall be conducted on IREPS platform. Bidders shall be able to see the auction screens.		

25.2.4	<p><u>PROCEDURE FOR CONDUCT AND REPORTING OF R.A.</u></p> <ol style="list-style-type: none"> 1. The tendering authority shall solicit bids through an invitation to the electronic Reverse Auction to be published or communicated in accordance with the provisions similar to e-procurement. 2. Depending upon the nature of item/work/service and complexity of case on hand, following shall be indicated in the tender for e-RA itself. <ol style="list-style-type: none"> (a) Initial e-RA period: This shall be the initial time interval for e-RA, e-RA shall be open for this duration. (b) Auto extension period: In case any offer is received in the time period equal to auto extension period before close of initial e-RA period, the e-RA shall be extended for time equal to auto extension period from the time of last bid. There shall be no upper limit on number of auto extensions. When no offer is received in the last auto extension period, e-RA shall close. (c) Minimum decrement in percentage of value of the last successful bid. 3. Date and time for start of e-RA shall be communicated to qualified tenderers by the convener after evaluation of the Technical Bids. 4. After submission of Initial Price Bid, tenderers will not be allowed to revise the taxes and other levies. 5. During auction period, identities of the participating tenderers will be kept hidden. 6. Minimum admissible bid value will be last bid value minus minimum decrement as specified by the tendering authority before starting of reverse auction. Starting point for reverse auction shall be the lowest initial Price Bid of the Tenderer eligible for award of contract. 7. After close of the RA, tabulation of lot (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers. 8. Railway users can also view the bidding history in chronological order. 9. Bidders will not be allowed to withdraw their last offer. 10. L-1 will be defined as the lowest bid obtained after the closure of R.A. session for Goods, Works and Services tenders.
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Annexure-‘A’

(Clause No. 24.3 of General Instructions to Tenderers)
Request letter from Executive branch to Accounts Office for opening of
LC Office of Railway

No.....

Dated.....

The PFA/Sr.DFM/Dy. FA HQ/Division/Workshop/Cost

Sub: Opening of LC

Ref: Supply Order / Contract Agreement No.

It is requested to open a sight LC against the above referred
order/Agreement in favour of The details of beneficiary are as under:

- i) Name of Contractor/Supplier
- i) Vendor Code
- ii) Address
- iii) Tender No.
- iv) Contract Agreement No.
- v) Description of Goods/Service
- vi) Value of Contract
- vii) Stages of payment
- viii) Expected payment within 6 months (LC Amount)
- ix) Beneficiary bank details;
 - a. Bank name
 - b. Address
 - c. Account No.
 - d. IFSC Code
- x) Validity/period for which LC is to be opened.

It is certified that the supplier/contractor has exercised the option of taking
payment due against the tender, through LC arrangement in IREPS portal
at the time of bidding itself and the option has been flagged in the IREPS.
This has the approval of

(Signature) Name.....
Designation.....
(Official Seal)

Annexure-‘B’

(Clause No. 24.1.5(f) of General Instructions to Tenderer)
LCDA No. (18 DIGIT IPAS GENERATED NO.)

Dated:

DOCUMENT OF AUTHORIZATION

Reference: (i) Works Contract/ Supply Contract No..... dated.....
(ii) Inland Letter of Credit No..... Dated.....

This document is issued against contract No..... (FROM IREPS)
..... DATED..... FOR WORK OF
(DESCRIPTION OF WORK FROM IREPS).....

The beneficiary of the aforementioned Letter of Credit M/s(NAME
AND VENDOR CODE)..... (Vendor Code..... as per IREPS.....) Is entitled to
receive payment aggregating INRSSS (FROM ABSTRACT OF BILL PASSED)... Out
of total LC amount of INR (FROM MASTER TABLE OF LC OPENED)
Against the first/second* commercial Invoice No. (FROM IPAS) Dated..... FROM
IPAS..... for INR (FROM IPAS)..... raised
against the above contract from State Bank of India..... (Branch FROM LC MASTER TABLE)
On the strength of this Certificate.

The details of payment already made to the beneficiary under this Letter of Credit are as follows:

S. No.	Invoice No.	Invoice date	Invoice Amount (INR)	LCDA No.	LCDA date	Amount paid (INR)
Total Paid						

THIS PAYMENT: as.....

LC balance after this payment:

(Signature of authorized Railway authority)

Name

(Clause No. 25.0 of General Instructions to Tenderers)

Procedure for Conduct and Reporting of R.A.

0. The tendering authority shall solicit bids through an invitation to the electronic Reverse Auction to be published or communicated in accordance with the provisionssimilar to e-procurement.
1. Depending upon the nature of item/work/service and complexity of case on hand, following shall be indicated in the tender for e-RA itself.
 - (a) Initial e-RA period: This shall be the initial time interval for e-RA, e-RAShall be open for this duration.
 - (b) Auto extension period : In case any offer is received in the time period Equal to auto extension period before close of initial e-RA period, the e-RA shall be extended for time equal to auto extension period from the time of last bid. There shall be no upper limit on number of auto extensions. When no offer is received in the last auto extension period, e-RA shall close.
 - (c) Minimum decrement in percentage of value of the last successful bid.
2. Date and time for start of e-RA shall be communicated to qualified tenderers by the convener after evaluation of the Technical Bids.
3. After submission of Initial Price Bid, tenderers will not be allowed to revise the taxesand other levies.
4. During auction period, identities of the participating tenderers will be kept hidden.
5. Minimum admissible bid value will be last bid value minus minimum decrement as specified by the tendering authority before starting of reverse auction. Starting point for reverse auction shall be the lowest initial Price Bid of the Tenderer eligible for award of contract.
6. After close of the RA, tabulation of last (minimum) bids received from all the tenderers will be generated and made visible to Railways and participating tenderers.
7. Railway users can also view the bidding history in chronological order.
8. Bidders not be allowed to withdraw their last offer.
9. L-1 will be defined as the lowest bid obtained after the closure of R.A. session for Goods Works and Services tenders.

(Clause No. 15.3 of General Instruction & Clause 10.3 of Tender Form (Second Sheet) of Annexure I of GCC 2022)
TENDERER'S CREDENTIALS (BID CAPACITY)

NORTH WESTERN RAILWAY

(Not Applicable in this Tender)

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

Available Bid Capacity = $[A \times N \times 2] - 0.33 \times N \times B$ Where,

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

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

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

Note:

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

ANNEXURE – E

**PROFORMA
DECLARATION BY TENDERER**

I/We hereby solemnly declare that I/We visited the site of the work (as on top sheet) personally and have made myself/ourselves fully conversant of the conditions therein and particular the following:-

1. Topography of area.
2. Soil strata at site of work.
3. Sources and availability of construction materials.
4. Rates for construction of material, water, electricity including all local taxes, royalties, octrois etc.
5. Availability of local labour (both skilled and unskilled) and relevant labour rates and labour laws.
6. The existing roads and approaches to the site of work and requirements for further service roads/approaches to be constructed by me/us
7. The availability and rates of private land etc. that shall be required by me/us for various purposes.
8. Climatic conditions and availability of working days.

I/We have quoted my/our rates for various items in the schedule of items, quantities and rates taking into account all the above factors also.

Signatures of the Tenderer/s

ANNEXURE-I

(Para 16.1(a) of General Instructions)

& clause No. 14 (ii)(a), Tender Form (Second Sheet), Part-I of GCC-2022, with up to date
correction slip

1.	Full name of the firm	:	
2.	Registered Head Office Address	:	
3.	Branch Office in India (If any)	:	
4.	Constitution of firm (whether Sole proprietorship firm/Partnership firm/ Limited Company/Joint Venture (JV)/Registered Society/ Registered Trust /LLP/HUF etc)	:	
5.	Bank account details of the firm i.e. Account No., name of bank and bank specific code number (MICR & IFSC) to facilitate electronic payment		
6.	Detail of PAN of the firm		
7	E Mail ID		

Note:- 1. Please enclosed-

- (i) Attested copy/copies of the constitution of their firm
- (ii) Copy of PAN CARD.

- 2. Tender document has to be signed by such persons as may be legally competent to sign on behalf of the firm, company, association, trust or society as the case may be

Date:

Signature of Tenderer/s
With Seal

ANNEXURE-II

(Para 16.1(b) of General Instructions)

clause No. 6.1 Part-I & 11(iv), Tender Form (Second Sheet), Part-I of GCC-2022, with up to
date correction slip

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 (including its constituents),
M/s..... (Hereinafter called the tenderer) for
the purpose of the Tender documents for the work
of.....

..... As per the tender
No..... of North Western 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 upto **two year**. Further, I/we (*insert name of the tenderer*) ** -----and all my/our constituents understand that my/our offer shall be summarily rejected.
9. I/we also understand that if the contents of the certificate submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and

Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of 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.**

This certificate is to be given by each member of JV or Partnership firm/LLP/etc.

(Adv. correction slip No-2, 2022/CE-I/CT/GCC-2022/Policy dated 13.12.2022)

Annexure -(II)A
Reference- Para6.1 of ITT

(This is to be given by attorney / authorized signatory / each member of Partnership firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.)

I/We.....(Name), attorney / authorized signatory of the
..... (constituent firm / constituent partner) and member / partner of the
..... (tendering firm) hereby solemnly affirm and state as under :-

1. I/We certify that (constituent firm / constituent partner) is / are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from Participation in tender on the date of the submission of bids, either in individual capacity or as HUF / members 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 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 -III”

(Para 16.0(c)(i) of General Instructions) & Clause No. 10.1(a), Tender Form (Second Sheet), part I of GCC 2022

Details of works of similar nature physically completed in all respect as per contract agreement during last seven years, ending last day of month previous to the one in which tender is invited

SN	Name of work	Name of organization for whom work physically completed	Type of organization for whom work executed	Contract Agreement No. & Date	Original value of contract agreement	Final value of contract as completed	Payment received till opening of present tender (On account/final bill)	Time taken for completion of work		Principal feature of the work in brief
								Date of award of contract	Date of actual completion	
1	2	3	4	5	6	7	8	9	10	11
1.										
2.										

Date:

Signature of Tenderer/s With Seal

Note:-

- (i) Above detail should be given only for works which have been physically completed in all respects. Part completed work shall not be considered.
- (ii) Certificate from Private individual for whom such works are executed shall not be Considered for eligibility of tenderers.
- (iii) The tenderers should attach self-attested copy of certificate issued by the organizations for whom the work was carried out in the proforma as per Annexure-IV(A), IV(B), IV(C) as applicable.
- (iv) In column 4 type of organization is to be mentioned viz. Central/ State Governments/Public Sector Undertaking/Public Funded Institutions/Municipal Bodies/Railways Siding owners/Concessionaire/ Public listed company.
- (v) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
- (vi) No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.

Annexure III(A)

As per clause No. 16.1(c) (ii) of General Instruction and Clause No. 10.1 b (i) & b (ii) of Tender Form (Second Sheet), Part I of GCC-2022, with up to date correction slip

Details of work of similar nature successfully completed during last seven years, ending last day of month previous to the one in which tender invited and detailed in Annexure III (bifurcated as per components of tender schedule) to be submitted by tenderer along with Annexure–III in case of tender having composite nature of work, having distinct components and having separate schedule for each component having value more than two crore

S. N	Description of components/ component as per tender schedule, executed in different contracts	Name of work under which components (mentioned in column II) executed	S.N. of Annexure three, where other details of this work mentioned	Payment received under these components till ending last day of month previous to the one in which tender is invited	Percentage of amount received under these components equal to advertised value of	Percentage of advertise value of tender amount required as per technical eligibility criteria under these components			Remark
						Threeworks Each costing not less than 30% of advertise value	One works each costingnot less than 40 % of advertisee value	One works each costingnot less than 60 % of advertise value	
I	II	III	IV	V	VI	VII	VIII	IX	X
1	All components (A,B,C,D,E,-- --) executed in single contract								
2	More than one component executed in single contract								
3	Only one component executed in single contract								

Date:

Signature of Tenderer/s

With Seal

Note:-

- Component wise details mentioned above should be supported by completion certificate submitted under Annexure- IV(A), IV(B), IV(C). In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
- No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.

ANNEXURE –III(B)

(Para 16.0(c)(i) of General Instructions) &
 Clause No. 10.1, Tender Form (Second Sheet), part I of GCC 2022, **with up to date correction slip**

Details of works of similar nature physically completed in all respect for Public listed companies by the tenderer/s during last seven years, ending last day of month previous to the one in which tender is invited

SN	Name of work	Name of organization for whom work physically	Type of organization for whom work executed	Contract Agreement No. & Date	Original value of contract agreement	Final value of contract as completed	Payment received till opening of present tender	Time taken for completion of work		Principal feature of the work in brief
								Date of award of contract	Date of actual completion	
1	2	3	4	5	6	7	8	9	10	11
1.										
2.										

*** It is certified that:**

- The above Public listed company/companies mentioned above is/are
 - Having average annual turnover of Rs.500 crore and above in last three financial years excluding the current financial years;
 - Listed on National Stock Exchange or Bombay Stock Exchange and
 - Incorporated/registered at least 5 years prior to the date of opening of the tender.
- Copies of the work experience certificate, work orders, bill of quantities, bill wise details of payment received, TDS certificates of all payments received, copy of final bill/last bill paid by the company duly certified are attached.
- Attached information have been duly certified by Chartered Accountants.
- I/We understand that in case above details are not furnished at the time of tendering the work experience certificate shall not be considered for adjudging the Technical Eligibility the tenderer in any case.

Certified that above details are correct

Signature of Chartered Accountant with seal

Date:

Signature of Tenderer/s
With Seal

Note:-

- (i)** Above detail should be given only for works which have been physically completed in all respects. Part completed work shall not be considered.
- (ii)** Annexure-III(B) to be signed by tenderer/s and Chartered Accountant as the credentials from Public listed companies are being attached for consideration.
- (iii)** The tenderers should attach self-attested copy of certificate issued by the organizations for whom the work was carried out in the proforma as per Annexure-IV(A), IV(B), IV(C) as applicable.
- (vi)** No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.

ANNEXURE-IV(A)

(Para 16.1 (d) and Note to para 15 Note No.(iii) (c) of General Instructions)
 Clause No. 11(i), Tender Form (Second Sheet), part I of GCC 2022, **with up to date correction slip**

COMPLETION CERTIFICATE

Name of Organization
 Postal address, Phone No., Email ID, Fax No

Letter No. Date:-.....

1.	Name of work	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7.	Final value of contract as completed. (if final bill paid)	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes / No)
10.(i)	If yes, then actual date of physical completion.	
(ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of opening of present tender along with financial year –wise break-up	
12.	In case of composite work: (See note (vii) below) Payment made for relevant distinct component of work out of total payment made under Sr. No. 11 above.	
13.	Brief description of nature & scope of work	
14.	Performance of Contractor (Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.

Date-

(Signature)
 Name and Designation of officer
 Mobile No. of officer
 Seal of officer

Note:-

- (i) Submission of false certificates by tenderer shall lead to, forfeiture of BID SECURITY and other action including penal action (Annexure-II).
- (ii) Copy of certificate duly self-attested shall be submitted along with tender document.
- (iii) Payment made as indicated in above certificate (At Sr. No. 11/ Sr. No. 12) will be considered as value of completed work for the purpose of eligibility under special technical criteria.
- (iv) Above format is for guidance only. Any certificate containing information asked for shall be considered.
- (v) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
- (vi) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10% of cost of any component of work in separate sheet (for work with composite components).
- (vii) Only those works will be treated as composite works which consist of more than one distinct component of work such as Civil Engg. Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender documents.
- (vii) No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.

ANNEXURE-IV(B)

(Para 16.1(d) and Note to para 15 Note No.(iii) (c) of General Instructions)
Clause No. 11(i), Tender Form (Second Sheet), part I of GCC 2022, with up to date
correction slip

COMPLETION CERTIFICATE**(If the work is awarded by Concessionaire)**

Name of Concessionaire

Address and Contract details i.e. Phone No. FAX, e-mail.

Letter No. Date:-.....

1.1	Name of work /Project executed by the Concessionaire	
1.2	Name and Address of Authority which awarded work to the Concessionaire.	
1.3	Name of work awarded by the Concessionaire to the firm.	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society /registered Trust etc.)	
5. (i)	In case of Partnership firm/JV/..... Name and % share of individual partners/members.	
 (ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7.	Final value of contract as completed. (if final bill paid)	
8.	Date of award of contract	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes / No)
10. (i)	If yes, then actual date of physical completion.	
 (ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of opening of present tender along with financial year –wise break-up	
12.	In case of composite work: (See note (vii) below) Payment made for relevant distinct component of work out of total payment made under Sr. No. 11 above.	
13.	Brief description of nature & scope of work	
14.	Performance of Contractor (Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contractor while executing the work had been satisfactory.

Date

Signature & Name of Authorized Person
 Of the Concessionaire with Seal and
 Mobile No. of Issuing Person.

Note:-

- (i)** Submission of false certificates by tenderer shall lead to, forfeiture of BID SECURITY and other action including penal action (Annexure-II).
- (ii)** Copy of certificate duly self-attested shall be submitted along with tender document.
- (iii)** Payment made as indicated in above certificate (At Sr. No. 11/ Sr. No. 12) will be considered as value of completed work for the purpose of eligibility under special technical criteria.
- (iv)** Above format is for guidance only. Any certificate containing information asked for shall be considered
- (v)** A self-attested copy of LOA and concessionaire agreement executed between concessionaire & Authority at Sr. No 1 above shall be submitted along with this completion certificate.
- (vi)** In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of advertised value of the tender (for works without composite components).
- (vii)** In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10 % of cost of any component of work in separate sheet (for work with composite components).
- (viii)** Only those works will be treated as composite works which consist of more than one distinct component such as Civil Engg. Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender documents
- (ix)** No technical and financial credentials are required for tenders having value upto Rs. 50 lakhs.

(Para16.1(d)and Note to para15 Note No.(iii) (c) of General Instructions) Clause No.11(i), Tender Form(Second Sheet), part-I of GCC 2022, with up to date correction slip

COMPLETION CERTIFICATE

(If the work is awarded by Public listed company)

Name of the public listed company

Address and Contract details i.e. Phone No.FAX, e-mail.

Letter No. Date:-.....

1.1	Name of work/Project	
1.2	Name and Address of the public listed company	
1.3	Number as incorporated/ registered in the National stock Exchange or Bombay stock exchange	
1.4	Date of getting listed in NSE/BSE (document to be attached as Per note (vi) below).	
1.5	Average Annual turnover of the public listed company in last Three financial years excluding current financial year.(details to be attached as per proforma in annexure VIII as per note(vii) below)	
2.	Contract Agreement (C/A) No. and date	
3.	Name of Firm with address	
4.	Nature of entity (Sole Prop./Partnership firm/company/Joint Venture firm/Registered Society/registered Trust etc.)	
5.(i)	In case of Partnership firm/JV/..... Name and % share of Individual partners/members.	
(ii)	In case of Sole Proprietorship, the name of sole proprietor	
6.	Original value of contract agreement.	
7.	Final value of contracts completed.(if final bill paid)	
8.	Date of award of contract.	
9.	Has the work physically been completed in all respect as per contract agreement?	(Yes /No)
10(i)	If yes, then actual date of physical completion.	
(ii)	Whether extension to DOC given with penalty or without penalty	
11.	Total payment made in above contract till the date of opening of Present tender along with financial year-wise break-up	
12.	In case of composite work:(See note(xii) below) Payment made for relevant distinct component of work out of total payment made under Sr. No. 11 above.	
13.	Brief description of nature & scope of work	
14.	Performance of Contractor(Satisfactory/Unsatisfactory)	

I hereby certify that above mentioned work has been physically completed in all respect as per contract agreement. Performance of the contract or while executing the work had been satisfactory.

Date

Signature & Name of Person Authorized
By the Public listed Company with Seal and
Mobile No. of Issuing Person.

Note:-

(i). Following documents regarding the **Public listed company** are required to be submitted along with the certificate (**Mandatory**)

1. Details of Average Annual turnover of the public listed company in last three financial years excluding current financial year (should be 500 Cr and above) issued by Chartered Accountant. These details need to be submitted as per the proforma of Annexure VIII.

2. The copy of the documents regarding listing in the National stock exchange or Bombay stock exchange with details of status of listing as on date of opening of tender, duly self-attested.

3. The copy of the document of incorporation/registration of the Public listed company (should be at least 5 years prior to date of opening of tender), duly self-attested.

4. The copy of document regarding Person Authorized by the Public listed Company to issue such certificate, duly self-attested.

5. The relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received a copy of final/last bill paid by the public listed company in support of above work experience certificate duly self-attested.

6. The certificate shall not be taken into consideration if any of the above conditions, prerequisites is not fulfilled or required supporting mandatory documents are found deficient.

(i) Submission of false certificates by tenderer shall lead to, forfeiture of Bid Security and other action including penal action (Annexure-II).

(ii) Above format is for guidance only. Any certificate containing required information

(iii) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10% of advertised value of the tender (for works without composite components).

(iv) In case of JV firm, these details are also required for all the members of the JV firm for one similar single work for a minimum of 10% of cost of any component of work in separate sheet (for work with composite components).

(v) Only those works will be treated as composite works which consist of more than one distinct component such as Civil Engg, Works, S&T work, Electrical work, OHE work etc. and there is separate schedule for each such distinct components in the tender document. Asked for shall be considered

(Para 16.1 (g) of General Instructions) Clause No.11 (iii) Annex. I of Part-I of GCC-2022, with up to date correction slip.

LIST OF PLANTS & MACHINERY AVAILABLE ON HAND AND PROPOSED TO BE INDUCTED (OWN AND HIRED TO BE GIVEN SEPARATELY) FOR SUBJECT WORK.

Sr. No.	Particulars of Plants/Machinery	No. of Unit	Kind and make	Capacity	Age & Conditions	Owned by firm	Proposed to be purchased	
							Date of placing order	Likely date of receipt
1	2	3	4	5	6	7	8	9
1								
2								
3								
4								
5								

Note:

- (a) Indicate clearly, whether (i) Owned by firm, or (ii) To be purchased by firm giving date of placing order and likely date of receipt.
- (b) Optimum Plants and Machineries required to be deployed during execution of work.
- (i) Earthwork in formation of New Line / Doubling/ Gauge Conversion Project: Poclain, JCB, Vibratory Roller, Grader, Dumpers, Tractors, Water tank etc.
- (ii) Concreting work for bridge work: Concrete pump, Transit mixer as per requirement, Batching plant of suitable capacity, JCB, Needle vibrator 60/40mm etc.

Signature of Tenderer/s

Dated:

(Bid Security)

Bank Guarantee Bond from any scheduled commercial bank of India
(On non-judicial stamp paper, which should be in the name of the Executing Bank).

Name of the Bank:-----

President of India,

Acting through.....

..... Railway,

Beneficiary Railway

Date:.....

Bank Guarantee Bond No.:

Date:-----

In consideration of the President of India acting through -----(Designation& address of Contract Signing Authority),..... Railway,, (here in after called “The Railway”) having been informed that.....[Insert name of the bidder]..... (here in after called “the Bidder”) in tends to submit its bid(herein after called "the Bid").

WHEREAS,theBidderisrequiredtofurnishBidSecurityforthesumof[InsertrequiredValueof Bid Security], in the form of Bank Guarantee, according to conditions of Bid.

AND

WHEREAS,.....[Insert Name of the Bank], with its Branch.....[Insert Address] having its Headquarters office at..... [Insert Address], hereinafter called the Bank, acting through[Insert Name and Designation of the authorized persons of the Bank] ,have, at the request of the Bidder, agreed to give guarantee for Bid Security as herein after contained, in favour of the Railway:

1. KNOW ALL MEN that by these present that I/We the undersigned [Insert name(s) of authorized representatives of the Bank], being fully authorized to sign and incur obligations for and on behalf of the Bank, confirm that the Bank, here by, unconditionally and irrevocably guarantee to pay to the Railway full amount in the sum of [Insert required Value of Bid Security] as above stated.
2. The Bank undertakes to immediately pay on presentation of demand by the Railway any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the Railway on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.
3. The Bank shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the Bidder and without the Railway being required to show grounds or give reasons for its demand of the amount so demanded.

4. The guarantee here in before shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.
5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any documents, which have been or may be made between the Railway and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by Railway at any time.
6. This guarantee will remain valid and effective from.....[insert date of issue] till[insert date, which should be minimum 90days beyond the expiry of validity of Bid]. Any demand in respect of this Guarantee should reach the Bank with in the validity period of Bid Security.
7. The Bank Guarantee is unconditional and irrevocable.
8. The expressions Bank and Railway herein before used shall include the irrespective successors and assigns.
9. The Bank here by undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of the Railway. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.
10. The Bank hereby confirms that it is on the SFMS(Structured Financial Messaging System)and shall invariably send the advice of this Bank Guarantee to the following bank details –

IFSC CODE	
IFSC TYPE	
BANK NAME	
BRANCH NAME	
CITY NAME	
ADDRESS	
DISTRICT	
STATE	
BG ENABLED	

11. The Guarantee shall be valid in addition to and without prejudice to any other security Guarantee(s)ofBidderinfavouroftheRailway.TheBank,underthisGuarantee,shallbe deemed as Principal Debtor of the Railway.

Date

.....

Place.....

Bank's Seal and authorized signature(s)

[Name in Block letters].....

[Designation with Code No.].....

[P/Attorney]No.

Witness:

1 Signature, Name& Address &Seal

2 Signature, Name& address & Seal

Bank's Seal

[P/Attorney]No.

Note: All italicized text is for guidance on how to prepare this bank guarantee and shall be deleted from the final document.

(Para 16.1 (g) of General Instructions) Clause No.10.2 Annex. I of Part-I of GCC-2022, with up to date correction slip.

Each Bidder or each member of a JV must fill in this form separately:

NAME OF BIDDER/JV PARTNER:

Annual Contractual Turnover Data for the Previous 3/4 Years (Contractual Payment only)			
Year	Amount Currency	Exchange Rate	Indian National Rupees Equivalent
Average Annual Contractual Turnover for last 3 years			

1. The average annual contractual turnover shall be calculated as an average of “total contractual payments” in the previous three financial years. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.
2. The information supplied shall be substantiated by data in the audited balance sheets and profit and loss accounts for the relevant years in respect of the bidder or all members constituting the bidder.
3. Contents of this form should be certified by a Chartered Accountant duly supported by Audited Balance Sheet duly certified by the Chartered Accountant.

SEAL AND SIGNATURE OF THE BIDDER

Certified that all figures and facts submitted in this form have been furnished after full consideration of all observations/notes in Auditor's reports. _____

(Signature of Chartered Accountant)

Name of CA: _____

Registration No: _____

(Seal)

ANNEXURE-VII

(Para 16.1 (h) of General Instructions)

Clause No.11 (iii) Annex. I of Part-I of GCC-2022, with up to date correction slip.

LIST OF PERSONNEL ORGANIZATION AVAILABLE ON HAND AND PROPOSED TO BE ENGAGED FOR THE SUBJECT WORK.

Sr. No.	Name & Designation	Qualification	Professional experience	Remarks
1.	2	3	4	5
1				
2				
3				
4				
5				
6				
7				
8				

Signature of Tenderer/s

Dated:.....

ANNEXURE-VIII

(Para 16.1 (k) of General Instructions)

Clause No.10.2 and 11(ii) Annex. I of Part-I of GCC-2022, with up to date correction slip**(ON THE LETTER HEAD OF CHARTERED ACCOUNTANT)**

(TO BE SUBMITTED IN CASE FINANCIAL CREDENTIAL ARE BASED ON CONTRACTUAL PAYMENTS AS IN BALANCE SHEETS)

Compliance of Financial Eligibility criteria by the Tenderer regarding contractual payments received during the qualifying period i.e during the current financial year plus previous three financial years.

To

CPM/GSU

North Western Railway,

Jodhpur

Sub: - Contractual receipts of M/s (Name of firm).....

.....

It is to certify that contractual receipts of M/s (Name of firm).....during current financial year and preceding three financial years as extracted from audited balance sheets are as under :-

Sr. No.	Financial year	Amount of Contractual Payment Receipts	*Extracted from Source document (Page Ref. of Audited balance sheet)
1.	Current Financial year (Say A)		
2.	A-1		
3.	A-2		
4.	A-3		

I. Certificate of Chartered Accountant:

Certified that above contractual payments are correct as per the Audited Balance Sheets of the firm.....

Yours sincerely,

[Signatures of the Chartered Accountant
who have audited the balance sheet.]

Date: ...

(Name & Sign. Of
Authorized Signatory)Seal of firm
Registration No:-
E-Mail:-
Phone:-
Address:-
FAX:-

2. Declaration by the Tenderer:

I hereby declare that the information given above are true and copy of the certificate enclosed is also genuine. If any of the information given above is found to be wrong at any time, my tender will liable to be rejected.

Name and signature of Tenderer
along with Seal.

ANNEXURE –VIII(A)

**(Para 16.1 (k) of General Instructions) Clause No.10.2 and 11(ii) Annex. I of Part-I of GCC-2022,
with up to date correction slip**

TO BE SUBMITTED IN CASE FINANCIAL CREDENTIALS ARE BASED ON payment received from concerned Department / Client as per Form 26AS/16A from IT TRACES.

Detail of contractual payments received during the qualifying period i.e during the current financial year plus previous three financial years:-

To

CPM/GSU,

North Western Railway,

Jodhpur.

Sub: - Contractual receipts of M/s (Name of firm).....

.....

It is to certify that contractual receipts of M/s (Name of firm).....during current financial year and preceding three financial years as extracted as per 26AS/16A from IT TRACES are as under :-

S. No.	Name of Work	Name of Employer	For the financial year	Details of contractual payment received from concerned Department / Client based on Form 26AS/16A from IT TRACES.	Total contract amount received
a	b	c	d	e	f
			3 rd FY		
1					
2					
			2 nd FY		
1					
2					
			1 st FY		
1					
2					
			Current FY		
1					
2					

1. Certificate of Chartered Accountant :

Certified that above contractual payments are correct as per the contractual payment received during financial year based on 26AS/ 16A from IT TRACES.

[Signatures of the Chartered Accountant]

[i] Name :-

- [ii] Seal of firm
- [iii] Registration No:-
- [ii] Address:-
- [iii] Phone No:-
- [iv] Fax No:-
- [v] e-mail ID:-

Declaration by the Tenderer:

I hereby declare that the information given above are true and copy of the certificate enclosed is also genuine. If any of the information given above is found to be wrong at any time, my tender will liable to be rejected.

Name and signature of Tenderer
along with Seal.

(Para 9.0 (ii)(a) & 16.2.1(a) of General Instructions) Clause No.14(ii)(a) Annex. I of Part-I of GCC-2022, with up to date correction slip

CERTIFICATE

(For sole proprietorship firm)

(to be executed non judicial stamp paper of appropriate value as per law of state concerned- Non Judicial stamp paper should be purchased in the name of proprietor of the firm)

I..... (Indicate Name of Sole prop) S/o(Full address of Sole prop) Proprietor of M/s(Indicate Name of Proprietary firm) situated at (Full address of Sole prop firm) do hereby solemnly affirm & declare as under:-

1. That I am running a business in the name and style of M/S..... which is a sole proprietorship firm and which has got GST registration No.....
2. That I am the “**Sole Proprietor**” of the firm working in the name & style of M/s..... (Indicate Name – Proprietary firm) at.....(Firm Address)
3. That I/ my Firmis not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract

Deponent

Signature and Seal

VERIFICATION

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

Deponent

Signature and Seal

Place:-

Date:-

Note: - The stamp duty shall be governed by the provision of the Law relating to stamp in Force in that State at the time when such AFFIDAVIT is being executed. Affidavit shall be affirmed before the Notary Public.

(Para 16.2.6.1(a) of General Instructions)**Clause No.17.14.2 Annex. I of Part-I of GCC-2022, with up to date correction slip****AFFIDAVIT BY SOLE PROPRIETORSHIP FIRM/ HUF WHEN PARTICIPATING IN
JOINT VENTURE****(to be executed non judicial stamp paper of appropriate value as per law of state concerned-
Non Judicial stamp paper should be purchased in the name of proprietor of the firm)**I.....S/o Shri.....aged aboutyears
R/odo hereby solemnly affirm and declare as under:

1. That I am running a business in the name and style of M/s which is a sole proprietorship firm and which has got GST registration No.....
2. That I am the sole proprietor of the said firm M/S
3. That the Head office of the above named firm is situated at.....
4. That I through my above named firm shall participate in the tender No. issued by North Western Railway for the work namely “
_____” in Joint Venture and for the purpose shall enter into and execute joint venture agreement with M/S _____ & M/S _____ (name of other constituent(s) of joint venture).

DEPONENT

Verification:

Verified at.....on thisday of that the contents of my above affidavit are true and correct to the best of my knowledge and belief and nothing material has been concealed therefrom.

DEPONENT

(seal and signature of Notary Public)

Notes:

1. In this format space has been provided for entering details of two constituents of the JV however if the number vary details may accordingly be entered.
2. The document should be notarized at its place of execution (Place of signing the document)..
3. Each page of the document should be signed by executants.

(Para 16.2.6 (b) of General Instructions) Clause No. 17.6 of Annex. I Part-I of GCC-2022, with up to date correction slip)

MEMORANDUM OF UNDERSTANDING FOR JV

(The Memorandum of Understanding shall be submitted in following format on the non-judicial stamp of Rs.500/- duly notarized by Notary Public)

NOW THIS Memorandum of Understanding is executed at (Name of Place) on this date (DD/MM/YY) between M/s (Name of first constituent and address) as the first party represented by Shri and M/s (Name of 2nd constituent and address) represented by Shri As the second party and so on 3rd, 4th & 5th subsequent parties. (The expression and words of first and second and other shall mean and include their heir's successors, assigns, nominees, execution, administrators and legal representatives respectively).

WHEREAS all the parties are engaged mainly in the business of execution of Civil Engineering and general contracts for various Government Departments and organizations.

AND WHEREAS the parties herein above mentioned are desirous of entering into a joint venture for carrying out civil engineering and/or contract works in connection with Tender No. dated (Name of work) of North Western Railway, as mutually decided between members of Joint Venture Agreement.

1. That we M/s (JV firm) on behalf of all members of this joint venture agreement agreed that M/s will be "Lead Partner" of this Joint Venture.
2. That under this MOU, the work will be done jointly by M/s The first party and M/s the second and so on in the name and style of (Name) (Joint venture firm).
3. That we JV firm M/s on behalf of all the members of JV firm shall be legally liable, severally and jointly responsible/ liable for the satisfactory/ successful execution/ completion of the works including maintenance period in all respects and in accordance with terms and conditions of the contract.
4. That we M/s JV firm On behalf of all the members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (Railways) for execution of the project in accordance with General and Special Conditions of the Contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof.
5. M/s (Name of Lead Firm) of JV firm shall be the lead member of the JV firm who shall have a majority % share of interest in the JV firm. The other (One/Two) members shall have following share: - M/s (Name of Second Firm) have % and M/s (Name of Third Firm if any) have % share of interest in the JV Firm.

- 6.. That this JV shall be valid during the entire currency of the contract including the period of extension, if any ,and the maintenance period after the work is completed.
7. That we all the Joint Venture members authorize Mr./Ms.....one of the members on behalf of the JV firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/ correspondence with respect to the contract would be sent to this authorized member..... (Address) of the JV firm. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
8. That no member of the JV shall have the right to assign or transfer the interest right or Liability in the contract without the written consent of the other members and that of the employer (Railways) in respect of the said tender/contract.
- 9 That we all the members of the JV certify that we have not been black listed or debarred by Railways or any other Ministry/Department /PSU (Public Sector Undertaking) of the Govt. of India/ State Govt. from participation in tenders/contract in the past either in our individual capacity or as a member of the JV firm or partnership firm in which they were members/partners.
1. That this Joint Venture MOU shall in all respect be governed by and interpreted in accordance with Indian Laws.

Now the parties have joined hands to form this MOU on this date (DD/MM/YY) with reference to and in confirmation of their discussions and understanding brought on record on date.....(DD /MM /YY).

In witness thereof all/both the above named parties have set their respective hands on this MOU onthe day,monthand year.....first above mentioned, in the presence of the following witnesses:-

1. First party (authorized signatory)
 - 2.Second party (authorized signatory)
 3. Third party (if any) (authorized signatory)
- With Seal of parties**

Witnesses with name & full address:-

1.....2.....

Date.....

Place.....

NOTE: - Should MOU be in more than one separate page, each page shall be

Signed by the authorized signatory.

**(Para 16.2.6 (c) of General Instructions) Clause No. 17.14.1(iii) of Annex. I Part-I of GCC-2022,
with up to date correction slip)**

POWER-OF-ATTORNEY ON BEHALF OF THE JOINT VENTURE

**(to be executed non judicial stamp paper of appropriate value as per law of state concerned
Non Judicial stamp paper should be purchased in the name of the members of Joint
Venture)**

KNOW ALL MEN BY THESE PRESENTS THAT WE THE PARTIES whose details are given here under:

1.(name of constituent)(address) as the first party.
2.(name of constituent)(address) as the second party.

Have entered into a Joint Venture agreement for the purpose of securing the work advertised by North Western Railway vide NIT No.....details of works are as under:
“ ”

The aforesaid Joint Venture shall be known by the name “ ” (Hereinafter called the Joint Venture which Expression shall unless repugnant to the context or meaning thereof, include its successors, administrators and assigns.

We the above said parties, through this power of Attorney do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms.S/o Shri(address) who is presently holding the position of inthe firm/ company as our true and lawful attorney (hereinafter referred to as “Attorney”) of the Joint Venture to jointly or severally exercise all or any of the following powers for and on behalf of “ (name of JV) in connection with aforesaid bid:

1. To sign and submit Tender and participate in the aforesaid bid of the North Western Railway on behalf of the Joint Venture.
2. To sign and submit all the necessary papers, letters, forms, quotes, bids etc. on behalf of Joint Venture
3. To negotiate, discuss, agree to make any amendments, alterations or modifications thereto and to make representations, submit papers, affidavits and to do any other act and complete requisite formalities on behalf of the Joint Venture in connection with completion of aforesaid tender work and to enter into liability against the Joint Venture.
4. To sign, execute the contract with North Western Railway for and on behalf of the Joint Venture.

5. And generally to do all such acts, deeds or things as may be necessary or proper for the purposes mentioned above on behalf of Joint Venture.

The Joint Venture agrees and undertakes that in the event of any change in the constitution of the Joint Venture the rights and obligations of the Joint Venture shall continue to be in full force without any effect thereof.

We all the members of Joint Venture undertake that we shall not cancel or amend this Power of Attorney unilaterally and without prior written consent of North Western Railway.

AND the Joint Venture hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the Joint Venture and the Company hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF the members constituting the Joint Venture as aforesaid have executed these present, on this..... day of..... 20.... , under the common seal(s)/seals of their companies and/or firms(s), in presence of:

WITNESSES:

1. Signature
Name:
Address:

Signature of authorized signatories & their
Seals:

1. First Party (signature)
Name:
Seal

2. Signature
Name:
Address:

2. Second Party (signature)
Name:
Seal

Specimen Signatures of Attorney Holder in token of acceptance:

Name.....Signature.....

Executed and Signed before me on this.....day of At
.....(place).

(seal and signature of Notary Public)

Notes: 1. In this format space has been provided for entering details of two constituents of the JV however if the number vary the details may accordingly be entered.

2. The document should be notarized at its place of execution (Place of signing the document)..

3. Each page of the document should be signed by executants.

(Para 16.2.6.2(b) of General Instructions)**Clause No. 17.14.1 (ii) of Annex. I Part-I GCC 2022 with up to date correction slip****“LETTER OF CONSENT”****(To be submitted by Partnership Firm participating as member of JV)****(to be executed on non-judicial stamp paper as per tender conditions-Non Judicial stamp paper should be purchased in the name of partners of the firm)**

We the following partners of M/s.....(Indicate name of firm)
 (1).....S/o.....R/o.....2.....S/o.....R/o.....3.....
 S/o.....R/o.....4.....S/o.....R/o.....5.....S/o.....R/o.....
6.....S/o.....R/o.....having its office at.....hereby give our
 consent on behalf of M/s..... (Indicate name of firm), which is registered at
 Registration No.....by Registrar of Firms....., in favour of
 Mr..... (Indicate name of Partner), whose specimen signature are
 appended below, for entering into Joint Venture Agreement with
 M/s..... (Indicate name of other firm's)..... having office at
 in connection with T. No.....Name of work
 to sign & execute the MOU, JV agreement and all other required documents
 pertaining to above said tender on behalf of firm.

We have read the contents of this letter of consent & accept the same and we hereby agree
 to and ratify all acts, deeds & things of them or any documents executed by the said partner in the
 scope of this letter of consent on behalf of firm.

This letter of consent is made at on

Name & Signature of Partner/s

(Signature of Sh.....)

Date:

Place:.....

1.....

2.....

3.....

Seal of the Firm

(seal and signature of Notary Public)

Note:-

1. The stamp duty of Rs. 500/- or shall be governed by the provision of the Law relating to stamp in force in that State at the time.
2. Each page of the document should be signed by executants.

(Para 16.2.6.1(c) of General Instructions)

& clause No. 17.14.2, 17.14.3 and 15 of Annex I Part-I of GCC-2022, with up to date correction slip

SPECIAL POWER OF ATTORNEY**(To be submitted by Private/Limited Companies, Sole Proprietor or HUF participating as member of JV)****(to be executed non judicial stamp paper of appropriate value as per law of state concerned- Non Judicial stamp paper should be purchased in the name of proprietor of the firm)**

BE IT KNOWN to all that I (Indicate name of Director/Sole Prop.)..... at the Company/Proprietary firm (Indicate Name of Company & CIN no. / Sole Proprietary firm) having its office at do hereby for and on behalf of the said Company/Proprietary firm appoint Sh.....S/o Shriage..... (Indicate Name of Nominee with full address) of the Company/Prop. Firm as our Attorney, whose specimen signature are appended below to execute the MOU/ JV Agreement & all other required documents with M/s (Indicate Name of other Co. /Prop. firm)..... Situated at in connection with the following tender invited by North Western Railway:-

“T.No.....Name of work.....”

We/ I have read the content of this Special Power of Attorney & accept the same, and we/ I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

In witness where of I..... (Indicate name of Director/ Sole Prop.) Of M/s..... (Indicate name of Co. / Prop. Firm) the above named Director / Proprietor has executed this Power of Attorney.

For M/s.....

(Sign. of Shri.....)
Place...

(Sign& Seal)

Date:-.....

Executed and Signed before me on this.....day of At(place).

(Seal and signature of Notary Public)

Note: -

1. Not required if MOU/ JV is signed by Proprietor, Karta of HUF itself
2. The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.
3. The document should be notarized at its place of execution (Place of signing the document)..
4. Each page of the document should be signed by executants.

(Para 16.2.2 (c) of General Instructions)**& clause No. 18.10(ii), 15 Annex I Part-I of GCC-2022, with up to date correction slip****SPECIAL POWER OF ATTORNEY
(For Partnership Firms only)**

BE IT KNOWN to all that we (1)S/o.....R/o..... (2).....
 S/o.....R/o.....(3).....S/o.....R/o.....(4).....S/o.....R/o.....(5).....
 S/o.....R/o all the partners of the firm namely M/Shereinafter
 referred to as 'firm', which is registered at Registration No.....by Registrar of
 Firms..... The firm is having its head office
 at..... (herein after to be
 referred as the 'Firm').

We the above-named partners of above-named firm do hereby, for and on behalf of the
 said firm irrevocably constitute, nominate, appoint and authorize Shri.....
 (Name& designation) Special Attorney of the said firm and authorize the said Shri
(name), whose specimen signature are appended below, to do all or
 any of the following act's deeds and/or things on behalf of the said firm and to represent the firm
 in respect for the tender No..... (Name of
 work)invited by North Western Railway.

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender. In case the offer is submitted by the person other than those who is appointed as above and there is difference between the name of the person authorized as above and the person who digitally submitted the offer then our offer shall be deemed to be summarily rejected.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration.

We/ I have read the content of this Special Power of Attorney & accept the same and We/I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

That we/our Firm..... is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.

(Signature of Sri.....)	Executants Partner (Name & signature)
DATE	1.....
	2.....
Place	3.....
	4.....
Seal of Firm	Seal of Firm
Executed and Signed before me on thisday of At	
.....(place).	
(seal and signature of Notary Public)	

Note:-

1. The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.
2. Each page of the document should be signed by executants.

**(Para 16.2.1 (b) of General Instructions)
& clause No. 15 Annex I Part-I of GCC-2022, with up to date correction slip**

SPECIAL POWER OF ATTORNEY

(For Sole Proprietor Firm only)

BE IT KNOWN to all that I Sole Proprietor of the firm having its registered office at do hereby, for and on behalf of the said firm appoint Shri..... (Name& designation with full address) Special Attorney of the said firm and authorize the said Shri..... (name) whose specimen signature are appended below, to do all or any of the following acts deeds and/or things on behalf of the said firm and to represent the firm in respect for the tender No..... (Name of work)invited by North Western Railway.

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To procure/download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor's authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to Arbitration Tribunal.

I have read the content of this Special Power of Attorney & accept the same and I hereby agree to ratify & confirm & do hereby ratify & confirm all acts, deeds & things lawfully done or caused to be done by our said Attorney.

(Signature with name of Power attorney Holder)

(Name & signature of sole proprietor)

Dated

Place

(Seal of Firm)

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

(Para 16.2.3 (c) of General Instructions)**& clause No. 14(ii)(e) (iii) and 15 of Part-I of GCC-2022, with up to date correction slip****POWER-OF-ATTORNEY FOR SIGNING OF BID (when Tenderer is company incorporated under companies Act)****(to be executed non judicial stamp paper of appropriate value as per law of state concerned- Non Judicial stamp paper should be purchased in the name of the company)**

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/s
 (name of company & CIN number) is a
 Company registered under the Companies Act, 2013, and having its registered office
 at (hereinafter called the 'Company').

AND WHEREAS by its resolution No..... passed in the meeting held
 on..... of the Board of directors of the company the company (company name) have
 decided to participate in the tender No. _____ issued by
 North Western Railway for the work namely
 “ _____ ”

I.....(name and designation) the authorized
 representative of M/S
 (name of company) duly authorized in this behalf by aforesaid resolution do hereby irrevocably
 constitute, nominate, appoint and authorize Mr./ Ms.
 _____(designation)_____ (address)_____ & Mr./ Ms. Mr./
 Ms. _____(designation)_____ (address)_____ who is/are
 presently holding the above-mentioned position in the company as our true and lawful attorney
 (hereinafter referred to as “Attorney”) of the company to jointly or severally exercise all or any of
 the following powers for and on behalf of M/S
 (name of company & CIN number) in
 connection with aforesaid bid:

1. To sign and submit Tender and participate in the aforesaid bid of the North Western Railway on behalf of the company.
2. To sign and submit all the necessary papers, letters, forms, quotes, bids etc.
3. To negotiate, discuss, agree to make any amendments, alterations or modifications thereto and to make representations, submit papers, affidavits and to do any other act and complete requisite formalities on behalf of the company in connection with completion of aforesaid tender work and to enter into liability against the company.
4. To sign, execute the contract with North Western Railway for and on behalf of the company.
5. And generally to do all such acts, deeds or things as may be necessary or proper for the purposes mentioned above.

The company agrees and undertakes that in the event of any change in the constitution of the company the rights and obligations of the company shall continue to be in full force without any effect thereof.

The company undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North Western Railway.

AND the Company hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the Company and the Company hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

That our company is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.

IN WITNESS WHEREOF this deed has been signed and sealed by Shri.....(name and designation), on this..... day of..... 20.... , in presence of:

WITNESSES:

1. Signature
Name:
Address:

Executants' Signature & Seal of company:
Name:
Designation:

2. Signature
Name:
Address:

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1) Name Signature.....

(2) Name..... Signature.....

Executed and Signed before me on this.....day of..... At
.....(place).

(seal and signature of Notary Public)

Notes:

1. In this format space has been provided for entering details of two authorized persons/attorney holders however if the number vary details may accordingly be entered.
2. The document should be notarized at its place of execution (Place of signing the document).
3. Each page of the document should be signed by executants.

Board's Resolution of company incorporated under companies Act for submitting Tender by company (To be printed on company's letter head)

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE BOARD OF DIRECTORS OF _____ (Company Name) _____ (CIN _____) (hereinafter referred to as company) HELD ON _____ (Date) _____ AT _____ (Address)

Whereas the Board has been described about NIT No. _____ issued by North Western Railway for the work namely "_____". Board discussed the matter

and after discussion following resolution was passed:

RESOLVED THAT the company (company name) shall participate in the above tender .

Resolved further that the Board authorizes, Mr./ Ms. _____ & Mr./ Ms. _____ (Name and designation) of the company, to jointly or severally sign and submit all the necessary papers, letters, forms, quotes, bids etc, negotiate, discuss, agree to make any amendments, alterations or modifications thereto and to make representations, submit papers, affidavits and to do any other act and complete requisite formalities on behalf of the company in connection with completion of aforesaid tender work and to enter into liability against the company.

Resolved further that Board authorizes Mr./Ms. _____ (name and designation) of the company to execute Power of Attorney in terms of this resolution in favour of Mr./Ms. _____ & Mr./Ms. _____ the person(s) above named.

The acts done and documents executed by such above named authorized person(s) shall be binding on the company.

For the Organization,

(Seal of company & Signature of authorized person)

Name: _____

Designation: _____

Place:

Dated:

Executed and Signed before me on this.....day of At(place).

(Seal and signature of Notary Public)

Notes:

1. In this format space has been provided for entering details of two authorized persons however if the number vary details may accordingly be entered.
2. The document should be notarized at its place of execution (Place of signing the document)..
3. Each page of the document should be signed by authorized signatory(s).
4. Any person / director should not be authorized to execute Power of Attorney in his own favour.

MODEL FORM OF BANK GUARANTEE BOND FOR PG

To
 Sr. DFM
 North Western Railway, Jodhpur

1. In consideration of the President of India acting through (indicate designation of concerned Dy. CSTE/GSU (hereinafter called “the Government”) having agreed to exempt – (Name & address) ----- (hereinafter called “the said Contractor(s)”) from the demand, under the terms and conditions of an Agreement dated ----- made between ----- and ----- for ----- (hereinafter called “the said Agreement”), of Performance Guarantee for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a bank Guarantee for Rs.----- (Rupees-----only) we, ----- (hereinafter referred to as “the Bank” at the request of ----- (Contractor (s) do hereby undertake to pay to the Government an amount not exceeding Rs. - ----- --against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We----- (indicate the name of the bank) and our local branch at Jodhpur i.e ----- (name, address and branch code of local branch at Jodhpur) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the terms of conditions contained in the said Agreement or by reason of the contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.

3. We under-take to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s)/supplier (s) in any suite or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal .
 The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

4. We..... (Indicate the name of bank) and our local branch at Jodhpur i.e (name, address and branch code of local branch at Jodhpur) further agreed with the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance/of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or

discharged or till ----- (office/Department) Ministry of -----certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on in writing on or before the ----- we shall be discharged from all liability under this guarantee thereafter.

5. We (Indicate the name of bank) and our local branch at Jodhpur i.e.....(name, address and branch code of local branch at Jodhpur) further agree with the government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to post opens for any time or from time to time any of the powers exercisable by the Government against the said, Contractor(s) and to further or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or commission on the part of the Government or any indulgence by the Government to the said Contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the bank or the contractor(s)/Supplier(s).
7. We ----- (indicate the name of bank) and our local branch at Jodhpur i.e. (Name, address and branch code of local branch at Jodhpur) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing.
Dated the----- day of----- 2019
For _____ (indicate the name of bank) and our local branch at Jodhpur i.e. (Name, address and branch code of local branch at Jodhpur)

Insurance Surety Bond for Performance Security

Name of the issuer of surety bond:

President of India,
Acting
through.....,

.....

Railway.

Date:.....

.....

Surety Bond No:..... Issue Date :.....

Amount of Bond:..... Expiry Date:.....

WHEREAS, In consideration of the President of India acting through(Designation & address of contract signing authority),.....Railway,....., (hereinafter called “The Railway”) having accepted the bid of M/S XXXXX hereinafter called the contractor, for the work of XXX” under invitation of bids No XXXX Dated XXXXX, vide Letter of Acceptance No.....

AND

WHEREEAS, the contractor is required to furnish Performance Security for the sum of ₹.XXXX (**Rupees XXXX Only**), in the form of Surety Bond, being a condition precedent to the signing of the contract agreement.

SB No:

Date:

WHEREAS, we, _____, (Name of insurance company) hereinafter called the Surety, acting through [Designation(s) of the authorized person of the Surety], have, at the request of the M/s. XXXX contractor, agreed to give Bond for performance security/ additional performance security as hereinafter contained:

1. KNOW ALL MEN by these present that I/We, the undersigned [Insert *name(s) of authorized representatives of the Surety*], being fully authorized to sign and incur obligations for and on behalf of the Surety, confirm that the Surety, hereby, unconditionally and irrevocably Bond to pay the Railway the full amount in the sum of XXXX)(**Rupees XXXX Only**)as above stated.
2. The Surety undertakes to immediately pay on presentation of demand by the Railway any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the Railway on the Surety shall be final, conclusive and binding, absolute and unequivocal notwithstanding any disputes raised/pending before any Court tribunal, arbitration or any authority or any threatened litigation by the Bidder or Bank.
3. On payment of any amount less than aforementioned full amount, as per demand of the Railway, the Bond shall remain valid for the balance amount i.e. the aforementioned full amount less the payment made to the Railway.
4. The Surety shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the contractor and without the Railway being required to show grounds or give reasons for its demand or the amount demanded.
5. The Surety Bond shall be unconditional and irrevocable.
6. The Bond hereinbefore shall not be affected by any change in the constitution of the Surety or in the constitution of the Contractor.
7. The Surety agrees that no change, addition, modifications to the terms of the Contract Agreement or to any documents, which have been or may be made between the Railway and the Contractor, will in any way release

us from the liability under this Bond; and the Surety, hereby, waives any requirement for notice of any such change, addition or modification to the Surety.

8. This Bond is valid and effective from the date of its issue, which is [insert date of issue]. The Bond and our obligations under it will expire on **XXXX** (Expiry Date). All demands for payment under the Bond must be received by us on or before that date.

9. The Surety agrees that the Railways right to demand payment of aforementioned full amount in one instance or demand payments in parts totalling up to the aforementioned full amount in several instances wilt be valid until either the aforementioned full amount is paid to the Railway or the Bond is released by Railway before the Expiry date.

10. The Surety agrees that its obligation to pay any amount demanded by the Railway before the expiry of this Bond will continue until the amount demanded has been paid in full.

11. The expressions Surety and Railway hereinbefore used shall include their respective successors, administrators and assigns.

12. The Surety hereby undertakes not to revoke the Bond during its currency, except with the previous consent in writing of the Railway. This Bond is subject to the Uniform Rules for Demand Bonds, ICC Publication No. 758.

13. We, the Surety Insurer, further agree that the Authority shall be the sole judge to decide as to whether the Bidder is in default of due and faithful fulfillment and compliance with the terms and conditions contained in the Bidding Documents including, inter alia, the failure of the Bidder to keep its Bid open during the Bid validity period set forth in the said Documents, and the decision of the Authority that the Bidder is in default as aforesaid shall be final and binding on us, not withstanding any differences between the Authority and the Bidder or any dispute pending before any Court, tribunal, arbitrator or any other authority.

14. The Bond shall be in addition to and without prejudice to any other security Bond (s) of the contractor in favour of the Railway available with the Railway. The Surety, under this Bond, shall be deemed as Principal Debtor of the Railway.

Notwithstanding anything to the contrary contained in these presents,

a. Our liability under this Surety Bond shall not exceed **XXXX (Rupees XXXX Only)**.

b. This Surety Bond shall be valid up to **XXXX** (being the date of expiry);

c. Unless the bank is served a written claim or demand on or before **XXXX** [date of expiry] all rights under this Bond shall be forfeited and the Surety shall be relieved and discharged from all liabilities under this Bond irrespective of whether or not the original Surety bond is returned to the Surety.

Dated the day of 2024

15. The Insurance Surety Bond shall be verified by sending mail to
[customer.care@sbigeneral.in].

Place..... Bank's Seal and authorized signature(s)

[Name in Block letters].....

[Designation with Code No.].....

[P/Attorney] No.

Witness

1.

2.

[Note : All italicized texts are for guidance on how to prepare this Insurance Surety Bond and shall be deleted from the final document.]

ACS 9 Dt.09.01.2025

**Clause No. 16.2.6.2(d) of General Instructions &
Clause No. 17.14.1 (iii) and 15 of Annex. I Part-I of GCC-2022, with up to date correction
slip**

SPECIAL POWER-OF-ATTORNEY

(FOR SIGNING JOINT VENTURE AGREEMENT ON BEHALF OF PARTNERSHIP FIRM)

**(to be executed non judicial stamp paper of appropriate value as per law of state concerned-
Non Judicial stamp paper should be purchased in the name of partners of the firm)**

KNOW ALL MEN BY THESE PRESENTS: WHEREAS WE

(1)..... S/o Shri..... R/o.....
(2)..... S/oShri..... R/o.....

All are the partners of a partnership firm namely M/s.Name of firm) hereinafter referred to as 'firm', which is registered at Registration No.....by Registrar of Firms.....The firm is having its head office at (hereinafter to be referred as the 'Firm').

AND WHEREAS we all the above named partners have on.....(date) given our consent on behalf of firm to participate in the tender No. issued by North Western Railway for the work namely "....." in Joint Venture with M/S& M/S.....

We the above named partners of above named firm do hereby irrevocably constitute, nominate, appoint and authorize Mr./ Ms. S/o Shri..... (address)& Mr./ Ms. S/o Shri..... (address) as our true and lawful attorney (Hereinafter referred to as "Attorney") of the firm to jointly or severally exercise all or any of the following powers for and on behalf of M/S (name of firm) in connection with aforesaid bid:

1. To enter into and execute and sign JOINT VENTURE agreement, on behalf of our firm with M/S& M/S.....
2. To sign and submit all the necessary papers, letters, forms, quotes, bids etc. in connection with aforesaid bid.
3. To negotiate, discuss, agree to make any amendments, alterations or modifications thereto and to make representations, submit papers, affidavits and to do any other act and complete requisite formalities on behalf of the firm in connection with completion of aforesaid tender work and to enter into liability against the firm.
4. To sign, execute the contract with North Western Railway for and on behalf of the firm.
5. And generally to do all such acts, deeds or things as may be necessary or proper for the purposes mentioned above and to enter into liability against the firm.

We on behalf of firm undertake that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North Western Railway.

We on behalf of firm hereby agree that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the firm and we hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

Specimen signatures of the Attorney are appended below.

IN WITNESS WHEREOF this deed has been signed and sealed by us the under named, on this..... day of..... 20.... , in presence of:

WITNESSES:

- | | | |
|--------------|---------------------|--------------|
| 1. Signature | Executants Partners | |
| | (Name) | (Signature) |
| Name: | | |
| Address: | 1..... | |
| | 2. | |
| 2. Signature | | |
| Name: | | |
| Address: | | |

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1) Name.....Signature.....

(2) Name.....Signature.....

Executed and Signed before me on this.....day of At
.....(place).

(seal and signature of Notary Public)

Notes:

1. In this format space has been provided for entering details of four partners, two constituents of JV and two attorney holders, however if the number vary the details may accordingly be entered.
2. The document should be notarized at its place of execution.
3. Each page of the document should be signed by executants

Clause No. 16.1(f) of General Instructions & Clause No. 10.3 Annex. I Part-I of GCC-2022, with up to date correction slip

(ON THE LETTER HEAD OF CHARTERED ACCOUNTANT)

(Mandatory and applicable for tenders valuing more than
Rs 20 Cr to calculate Bid Capacity of tenderer)

To
CPM/GSU,
North Western Railway,
Jodhpur.

Sub: -Construction works executed and payment received

It is to certify that construction works executed and payment received through construction works of M/s (Name of firm).....during current financial year and preceding three financial years as extracted from, **Balance sheet** are as under :-

Sr. No.	Financial year	Work executed And Payment received through construction works	Page Ref. Of Audited Balance Sheet
1.	Current Financial year (Say A)		
2.	A-1		
3.	A-2		
4.	A-3		

Certificate of Chartered Accountant :

Certified that above contractual payments are correct as per the Audited Balance Sheets

. Yours sincerely,

Date: ...

(Name & Sign. Of Chartered Accountant
who have audited the balance sheet)
Seal of firm
Registration No:-
E-Mail:-

Declaration by the Tenderer:

I hereby declare that the information given above are true and copy of the certificate enclosed is also genuine. If any of the information given above is found to be wrong at any time, my tender will liable to be rejected.

Name and signature of Tenderer
along with Seal.

Note :

- (a) In case of JV firm details of construction works executed by each member of JV is required to be submitted
- (b) In case, the tenderer/s failed to submit the above statement (for tenders valuing more than 20 Cr) along with offer, their/his offer shall be considered as incomplete and will be rejected summarily.
- (c) Alternatively, In support of contractual payment received during the qualifying period tenderer may also submit details in the format attached as Annexure-XIX(A).

Annexure-XIX (A)**Clause No. 16.1(f) of General Instructions & Clause No. 10.3 Annex. I Part-I of GCC-2022, with up to date correction slip**

TO BE SUBMITTED IN CASE CONTRACTUAL PAYMENTS RECEIVED ARE BASED ON payment received from concerned Department / Client as per Form 26AS/16A from IT TRACES.

(ON THE LETTER HEAD OF CHARTERED ACCOUNTANT)

(Mandatory and applicable for tenders valuing more than

Rs 20 Cr to calculate Bid Capacity of tenderer)

To

CPM/GSU,

North Western Railway,

Jodhpur.

Sub: -Construction works executed and payment received

It is to certify that construction works executed and payment received through construction works of M/s (Name of firm).....during current financial year and preceding three financial years as extracted from, **certificate issued by the employer/ client**, Form 16A , Form 26AS etc. are as under :-

For evaluation of Bid Capacity (Maximum value of Contractual payment received in any one year during the last three years and current financial year)

S. No .	Name of work	Name of employer	For the financial year	Details of contractual payment received from concerned Department / Client based on Form 26AS/16A from IT TRACES.	Total contract amount received
a	b	c	d	E	f
			3 rd FY		
1					
2					
			2 nd FY		
1					
2					
			1 st FY		
1					
2					
			CURRENT FY		
1					
2					

1. Certificate of Chartered Accountant :

Certified that above contractual payments are correct as per the Audited Balance Sheets

[Signatures of the Chartered Accountant who
have audited the balance sheet.]

- [i] Name :-
- [ii] Address: -
- [iii] Phone No: -
- [iv] Fax No: -
- [v] e-mail ID: -

2. Declaration by the Tenderer:

I hereby declare that the information given above are true and copy of the certificate enclosed is also genuine. If any of the information given above is found to be wrong at any time, my tender will liable to be rejected.

Name and signature of Tenderer
along with Seal.

**Clause No. 16.2.4(d) of General Instructions &
 Clause No. 14(ii)(f) (iii) and 15 of Annex. I Part-I of GCC-2022, with up to date correction slip
 SPECIAL POWER-OF-ATTORNEY
 (For LLP Firm incorporated under LLP Act)**

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S
 (Name of LLP & LLPIN number) is a LLP
 Firm registered under the LLP Act, 2008, and having its registered office
 at (here in after called the 'LLP').
 AND WHEREAS by its resolution No..... passed in the meeting held
 on..... of the Partners of the LLP (LLP name) have decided to
 participate in the tender No. invited by North Western
 Railway for the work namely “”
 I.....(name and designation) the authorized
 representative of M/S
 (name of LLP) duly authorized in this behalf by aforesaid resolution do hereby irrevocably
 constitute, nominate, appoint and authorize Mr./Ms.
(designation).....(address).....& Mr./
 Ms./Mr./Ms.(designation).....(address).....who is/are
 presently holding the above mentioned position in the LLP as our true and lawful attorney
 (hereinafter referred to as “Attorney”) of the LLP to jointly or severally exercise all or any of the
 following powers for and on behalf of M/S
 (name of LLP & LLPIN number) in respect
 of the aforesaid tender Invited by the North Western Railway :

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and other relevant documents & receive payment on behalf of firm,
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of firm.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration

The LLP agrees and undertakes that in the event of any change in the constitution of the LLP, the rights and obligations of the LLP shall continue to be in full force without any effect thereof.
 The LLP undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North Western Railway.

AND the LLP hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the LLP and the LLP hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

That our LLP is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of JV in which the LLP was / is a member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.

IN WITNESS WHEREOF this deed has been signed and sealed by Shri.....(name and designation), on this.....day of..... 20...., in presence of:

WITNESSES:

1. Signature
Name:
Address:

Signatures of authorized representative &
Seal of LLP:

Name of authorized representative
(Executants):
Designation:

2. Signature
Name:
Address:

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1)Name Signature.....

(2Name).....Signature.....

Executed and Signed before me on this.....day of At
.....(place).

(Seal and signature of Notary Public)

Note:-

1. The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.
2. The document should be notarized at its place of execution (Place of signing the document).
3. Each page of the document should be signed by executants

Annexure -XXI**Clause No. 16.2.4(c) of General Instructions &
Clause No. 14(ii)(f) (iii) Annex. I Part-I of GCC-2022, with up to date correction slip****Partner's Resolution of LLP Firm incorporated under LLP Act for submitting Tender by
LLP firm (To be printed on Firm's letter head)**

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS
OF _____ (LLP Name) having LLP IN _____ of
20..... (Hereinafter referred to as LLP) HELD ON (Date) _____ AT (Address)

Whereas the Board has been described about NIT No. _____ issued
by North Western Railway for the work namely
“ _____ ”. Partners

discussed the matter and after discussion following resolution was passed:

RESOLVED THAT the LLP (LLP name) shall participate in the above tender

Resolved further that the LLP/Partners authorize(s), Mr./ Ms. _____ &
Mr./ Ms. _____ (name and designation) of the LLP, to jointly or
severally sign and submit all the necessary papers, letters, forms, quotes, bids etc, negotiate,
discuss, agree to make any amendments, alterations or modifications thereto and to make
representations, submit papers, affidavits and to do any other act and complete requisite
formalities on behalf of the LLP in connection with completion of aforesaid tender work and to
enter into liability against the LLP.

Resolved further that LLP/Partners authorize(s) Mr./Ms. _____ (Name and
Designation) of the LLP to execute Power of Attorney in terms of this resolution in favour of
Mr./Ms. _____ & Mr./Ms. _____ the person(s)
above named.

The acts done and documents executed by such above named authorized person(s) shall be
binding on the LLP.

For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person: _____

Designation: _____

Place:

Dated:

Executed and Signed before me on this.....day ofAt
.....(place).

(Seal and signature of Notary Public)

Note:-

1. Stipulations in the above specimen Resolution are for guidance only. LLP firm can incorporate other stipulation /stipulations relevant with the tender and formation of JV, if required.
2. The above Annexure should be executed on the Letter Head of LLP firm.

Annexure –XXII

**Clause No. 16.2.5(c) of General Instructions &
Clause No. 14(ii)(g)(iii) and 15 of Annex. I Part-I of GCC-2022, with up to date correction slip**

**SPECIAL POWER-OF-ATTORNEY
(For Registered Society & Registered Trust)**

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S
..... (Name of **Registered Society / Registered Trust**) is a **Registered Society / Registered Trust** registered under the..... Act (Name of the act vide which registered), and having its registered office at..... (hereinafter called the '**Registered Society / Registered Trust**').

AND WHEREAS by its resolution No..... passed in the meeting held on..... of the Executive Member of the **Registered Society / Registered Trust** the **Registered Society / Registered Trust** (**Registered Society / Registered Trust** name) have decided to participate in the tender No. invited by North-Western Railway for the work namely “

I.....(name and designation) the authorized representative of M/S(name of **Registered Society / Registered Trust**) duly authorized in this behalf by aforesaid resolution do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms.(designation).....(address).....& Mr./Ms./Mr./Ms.(designation).....(address)..... who is/are presently holding the above mentioned position in the **Registered Society / Registered Trust** as our true and lawful attorney (hereinafter referred to as “Attorney”) of the **Registered Society / Registered Trust** to jointly or severally exercise all or any of the following powers for and on behalf of M/S (name of **Registered Society / Registered Trust**) in respect of the aforesaid tender Invited by the North Western Railway :

1. To appear before office of North Western Railway related to the process of tendering for the above said tender.
2. To download the tender documents for the above said tender.
3. To digitally sign the above said tender document and for uploading the offer on www.ireps.gov.in for the said Tender.
4. To attend meetings and submit clarifications including negotiations, if any, called by North Western Railway.
5. To sign the agreement and all other required documents & receive payment.
6. To co-ordinate measurement through contractor authorized engineer, witness measurement, sign measurement books on behalf of Registered Trust/Society.
7. To compromise, settle, relinquish any claim(s) preferred by the firm, sign no claim certificate and refer all or any disputes to arbitration

The **Registered Society / Registered Trust** agrees and undertakes that in the event of any change in the constitution of the **Registered Society / Registered Trust**, the rights and obligations of the **Registered Society / Registered Trust** shall continue to be in full force without any effect thereof.

The **Registered Society / Registered Trust** undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North Western Railway.

AND the **Registered Society / Registered Trust** hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the **Registered Society / Registered Trust** and the **Registered Society / Registered Trust** hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by Shri.....(name and designation), on this..... day of..... 20...., in presence of:

WITNESSES:

1. Signature
Name:
Address:

Signatures of authorized representative &
Seal of **Registered Society / Registered Trust**

Name of authorized representative
(Executants):
Designation:

2. Signature
Name:
Address:

Specimen Signatures of Attorney Holder(s) in token of acceptance:

(1)Name Signature.....

(2)Name).....Signature.....

Executed and Signed before me on this.....day of At
.....(place).

(Seal and signature of Notary Public)

Notes:-

Note:- The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.

Annexure-XXIII**Clause No. 16.1(m) of General Instructions &
Clause No. 16 of Annex. I Part-I of GCC-2022, with up to date correction slip**

B. Information and particulars in terms of Para 11(a) of General Instruction regarding retired Railway Engineer (s)/ Officer(s) of the Gazetted rank.

Sr. No.	Name of retired gazette Officer/ Engineer with Designation	Date of Retirement	Details of permission obtained (wherever applicable)
1.			
2.			
3.			
4.			

Note:- 1. Details as per the above format shall be furnished by the tenderer. The format should not be left blank. In case of there being no such retired Gazetted Railway Officer/ Engineer, Nil to be furnished in the format.

2. In case details are not submitted in terms of Para 11(a) by the tenderer, their offer shall be summarily rejected.

C. Information and particulars in terms of Para 11(b) of General instructions regarding Relative(s) employed in gazette capacity on North Western Railway

Sr. No.	Name of the relative who is employed in gazette capacity on North Western Railway with Designation	Relation
1.		
2.		
3.		
4.		

Note :- 1. Details as per the above format shall be furnished by the tenderer. The format should Not be left blank. In case of there being no such relative, Nil to be furnished in the format.

2. In case details are not submitted in terms of Para 11(b) of General Instructions by the tenderer , their offer shall be summarily rejected.

Signature of the tenderer.....

Name.....

Annexure-XXIV
Clause No. 16.2.6.4(b) of General Instructions

Partner's Resolution of LLP Firm for entering into Joint Venture (To be printed on LLP Firm's letter head)

EXTRACT OF THE RESOLUTION PASSED AT THE MEETING OF THE PARTNERS OF _____ (LLP Name) having LLPIN _____ of 20.....) (hereinafter referred to as LLP) HELD ON (Date) _____ AT (Address) _____

Whereas the Partners have been described about NIT No. _____ issued by North-Western Railway for the work namely "_____" Partners discussed the matter and after discussion following resolution was passed:

RESOLVED THAT the LLP..... (LLP name) shall participate in the above tender in Joint Venture and for the purpose the LLP shall enter into and execute joint venture agreement, with M/S _____ & M/S _____ (name of other constituent(s) of joint venture).

Resolved further that the LLP/Partners authorize(s), Mr./ Ms. _____ & Mr./ Ms. _____ (name and designation) of the LLP, to jointly or severally, sign joint venture agreement, and to sign such other documents and to do any other act and complete requisite formalities on behalf of the LLP in connection with completion of aforesaid tender work and to enter into liability against the LLP.

Resolved further that LLP/Partners authorize(s) Mr./Ms. _____ (name and designation) of the LLP to execute Power of Attorney in terms of this resolution in favour of Mr./Ms. _____ Mr./Ms. _____ the person(s) above named.

The acts done and documents executed by such above named authorized person(s) shall be binding on the LLP.

For the Organization,

(Seal of LLP & Signature of authorized person)

Name of authorized person: _____

Designation: _____

Place:

Dated:

Executed and Signed before me on this.....day of At(place).

(Seal and signature of Notary Public)

- Notes: 1. In this format space has been provided for entering details of two constituents of the JV and two authorized persons however if the number vary details may accordingly be entered.
 2. The document should be notarized at its place of execution (Place of signing the document).
 3. Each page of the document should be signed by authorized signatory(s).

JOINT VENTURE AGREEMENT

(to be executed non judicial stamp paper of appropriate value as per law of state concerned-Non Judicial stamp paper should be purchased in the name of the LLP)

KNOW ALL MEN BY THESE PRESENTS: WHEREAS M/S
 (name of LLP & LLPIN number) is a LLP
 registered under the LLP Act, 2008, and having its registered office at.....
 (Hereinafter called the 'LLP').

AND WHEREAS by its resolution No..... passed in the meeting held
 on..... of the Partners of the LLP, the LLP..... (LLP name)
 has decided to participate in the tender No. issued by
 North Western Railway for the work namely
 “ .. ”

in Joint Venture and for the purpose the LLP shall enter into and execute joint venture agreement
 with M/S & M/S (name of other
 constituent(s) of joint venture) AND THAT M/S (name of the
 lead member of joint venture) shall act as the lead member of above mentioned joint venture.

I..... (name and designation) the authorised
 representative of M/S
 (name of LLP) duly authorized in this behalf by aforesaid resolution do hereby irrevocably
 constitute, nominate, appoint and authorize Mr./ Ms.
 (designation) (address) & Mr./ Ms. Mr./
 Ms. (designation) (address) who is/are
 presently holding the above mentioned position in the LLP as our true and lawful attorney
 (hereinafter referred to as “Attorney”) of the LLP to jointly or severally exercise all or any of the
 following powers for and on behalf of M/S
 (Name of LLP & LLPIN number) in
 connection with aforesaid bid:

1. To enter into and execute and sign JOINT VENTURE agreement, draft of which has been approved by the LLP, on behalf of the LLP with above named constituents for participating in the aforesaid bid of the North-Western Railway on behalf of the LLP.
2. To sign and submit all the necessary papers, letters, forms, quotes, bids etc.
3. To do any other act and complete requisite formalities on behalf of the LLP in connection with completion of aforesaid tender work and to enter into liability against the LLP.
4. And generally to do all such acts, deeds or things as may be necessary or proper for the purposes mentioned above.

The LLP agrees and undertakes that in the event of any change in the constitution of the LLP, the rights and obligations of the LLP shall continue to be in full force without any effect thereof.

The LLP undertakes that it shall not cancel or amend this power of Attorney without obtaining previous written consent of North-Western Railway.

AND the LLP hereby agrees that all acts, deeds or things lawfully done by the said Attorneys or either of them under the authority of this power shall be construed as acts, deeds and things done by the LLP and the LLP hereby undertakes to confirm and ratify all and whatsoever the said Attorneys or either of them shall lawfully do or cause to be done by virtue of the powers hereby given.

IN WITNESS WHEREOF this deed has been signed and sealed by Shri.....(name and designation), on this day of..... 20... , in presence of:

WITNESSES:

1. Signature
Name:
Address:

Signatures of authorized representative & Seal
of LLP:

Name of authorized representative:
Designation:

2. Signature
Name:
Address:

Specimen Signatures of Attorney Holder in token of acceptance:

(1)NameSignature.....

(2)NameSignature.....

Executed and Signed before me on this.....day of At
.....(place).

(Seal and signature of Notary Public)

Note:-

1. The stamp duty shall be governed by the provision of the Law relating to stamp in force in that State at the time when such Power of Attorney is being executed. The Power of Attorney shall duly registered with registrar or notarized.
2. The document should be notarized at its place of execution (Place of signing the document).
3. Each page of the document should be signed by executants

DECLARATION BY AN EXISTING PARTNERSHIP FIRM

(Fill the relevant para (1.1, 1.2 & 1.3) and strike off the para which is not relevant under Partnership Firm)

I.....S/o Shri, the authorized signatory of partnership firm M/s..... do hereby solemnly affirm and declare as under:

That, we are an existing Partnership Firm in the name and style of M/s -----, since ----- MM/YY), having GST Registration no. -----, PAN/TAN No. ----- There has been no change in the Partner(s) of our firm during last 07 (Seven) years ending last day of the month previous to the one in which tender is invited.

OR

That, we are an existing Partnership Firm in the name and style of M/s -----, since ----- (MM/YY), having GST Registration no-----, PAN/TAN No. ----- Following of our partner(s) has/have quit the Partnership firm during last 07 (Seven) years ending last day of the month previous to the one in which tender is invited with details as under:

S.No.	Name of quitting Partner(s)	Share of Partner(s) who has/have quitted	Date of quitting (MM/YY)

AND / OR

That, we are an existing Partnership Firm in the name and style of M/s -----, since ----- (MM/YY), having GST Registration no. -----, PAN/TAN No. ----- Following partner(s) has/have joined our Partnership Firm during last 07 (Seven) years ending last day of the month previous to the one in which tender is invited with details as under:

S.No.	Name of joining Partner(s)	Share of joining Partner(s)	
		In the present firm	In the previous firm from where he/they has/have quit and joined the present firm

In case of Para 1.2 and 1.3, following documents as applicable are required to be submitted alongwith bid:-

- (i) Copy of previous Partnership Deed(s).
- (ii) Copy of Dissolution Deed(s) of previous partnership deed(s).
- (iii) Proof of surrender of PAN No(s) (in case of dissolution of previous partnership firm).

Declaration by the Tenderer:-

I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will be liable to be rejected.

Name and Signature of tenderer
along with Seal

Annexure-XXVII**DECLARATION BY NEWLY FORMED PARTNERSHIP FIRM**

I.....S/o Shri, the authorized signatory of partnership firm M/s..... do hereby solemnly affirm and declare as under:

1. That, we are the newly formed partnership firm in the name and style of M/s.....Registered with Registrar of firm vide Registration No....., dated
2. In this newly formed Partnership Firm, we are no. of partners. The details of the previous proprietary firm or previous dissolved partnership firm or previous splitted partnership firm(s) wherein any of the partners of the present firm was a proprietor / partner and proposed to use credentials obtained in such previous propriety firm (s) / partnership firm(s) is as under:-

S.N .	Name of person in the newly formed partnership firm	Details of Previous proprietary/ Partnership Firm	Share in newly formed partnership firm	Share in previous partnership firm	Remarks
1.					
2.					
3.					

3. That, following relevant documents are Annexed with bid:-

- (i) Copy of previous Partnership Deed(s).
- (ii) Copy of previous Dissolution/splitting Deed(s) of previous partnership deed(s).
- (iii) Proof of surrender of PAN No(s) (in case of dissolution of partnership firm).

Declaration by the Tenderer:-

I hereby declare that the information given above are true. If any of the above information is found to be wrong at any time, my tender will liable to be rejected.

Name and Signature of tenderer
along with Seal

Annexure-XXVIII**(Para 16.2.6.7 (a) of General Instructions)****Clause No. 14(ii)(b) of Annex. I Part-I of GCC-2022, with up to date correction slip****AFFIDAVIT BY HUF****(to be executed non judicial stamp paper of appropriate value as per law of state concerned-
Non Judicial stamp paper should be purchased in the name of HUF**

I.....S/o Shriaged about..... years
 R/oand as Karta of my
 Hindu Undivided Family (HUF) affirm on oath and declare as under:-

1. That I am Karta of our HUF which is known as -----(HUF)
2. That as on today, name of coparceners (including name of Karta) of our above said HUF, their father name and their addresses are as under:-

S.No.	Name of Coparceners	Name of Father	Address
1.			
2.			
3.			
4.			
5.			

3. That the above said HUF in existence since ----- --. (Date of incorporation of HUF).

4. That I, in the position of KARTA of Hindu Undivided Family (HUF) am submitting the tender on behalf of HUF and declare that the acts done and documents executed by me shall be binding on the HUF, M/s.....

5. That I/HUF Firm is not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of opening of bids, either in individual capacity or as a member of the partnership firm or JV in which he was / is a partner/member. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the General Conditions of Contract.

DEPONENT

Verification:

Verified at.....on thisday of..... that the contents of my above affidavit are true and correct to the best of my knowledge and belief and nothing material has been concealed there from.

DEPONENT

Karta of HUF-M/s.....

(seal and signature of Notary Public)

Notes: 1. The document should be notarized at its place of execution (Place of signing the document).

2. Each page of the document should be signed by executants.

Annexure-XXIX

(As per Clause 7D, part I of GCC-2022)

**FORMAT FOR CERTIFICATE TO BE UPLOADED BY TENDERER ALONGWITH
THE TENDER DOCUMENTS**

I/we..... (*Name and designation*)** appointed as the attorney/authorized signatory of the tenderer (including its constituents), have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I/we including any of its constituent certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority (Appropriately modify the wording as per applicability) .

I/we including any of its constituent further certify that this bidder will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

I/we including any of its constituent hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered.

[Where applicable, evidence of valid registration by the Competent Authority shall be attached.]

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.

NORTH-WESTERN RAILWAY
CONTRACT AGREEMENT OF WORKS

CONTRACT AGREEMENT NO. _____ DATED _____
 ARTICLES OF AGREEMENT made this _____ day of _____ 20____
 between President of India acting through the Railway Administration hereafter called the
 "Railway" of the one part and _____ herein after called the
 "Contractor" of other part.

WHEREAS the Contractor has agreed with the Railway for performance of the works
 _____ set forth in the Bill(s) of Quantities hereto annexed upon the Standard
 General Conditions of Contract, updated with correction slips issued up to date of inviting tender
 or as otherwise specified in the tender documents and the Specifications of _____
 updated with correction slips issued up to date of inviting tender or as otherwise specified in the
 tender documents and the applicable Standard Schedule of Rates (SSOR) of _____ updated
 with correction slips issued up to date of inviting tender or as otherwise specified in the tender
 document sand the Special Conditions and Special Specifications, if any and in conformity with
 the drawings here-into annexed AND WHEREAS the performance of the said works is an act in
 which the publicare interested.

NOW THIS INDENTURE WITNESSETH that in consideration to the payments to be
 made by the Railways, the Contractors will duly perform the said works in the said Bill(s) of
 Quantities set forth and shall execute the same with great promptness, care and accuracy in a
 workman like manner to the satisfaction of the Railway and will complete the same in accordance
 with the said specifications and said drawings and said conditions of contract on or before the
 _____ day of _____ 20____ and will maintain the said works for a period of
 _____ Calendar months from the certified date of their completion and will observe, fulfill and
 keep all the conditions therein mentioned (which shall be deemed and taken to be part of this
 contract, as if the same have been fully set forth herein), AND the Railway, both hereby agree that
 if the Contractor shall duly perform the said works in the manner aforesaid and observe and keep
 the said terms and conditions, the Railway will pay or cause to be paid to the Contractor for the
 said works on the final completion thereof the amount due in respect thereof at the rates specified
 in the Bill(s) of Quantities here to annexed.

Contractor _____ (Signature) Railway: Designation _____

Address _____ (For President of India)

Date _____ Date _____

Signature of **Witnesses** (to Signature of Contractor) with address:

Witnesses: _____

**STANDARD AGREEMENT
(For EBR-IF Funded Contracts Only)**

Articles of agreement made on this day -----in the year Two Thousand and Twenty between the President of India, acting through the -----<Zonal Railway> Administration having its office at -----hereinafter called the 'Railway' of the first part and < -----Name of Contractor----> hereinafter called the 'Contractor' of the second part and Indian Railway Finance Corporation Limited hereinafter called the 'IRF' of the third part having its office atwith GSTIN.....<GSTIN of billing unit (IRFC)>.

First part, second part and third part collectively hereinafter called the 'Parties'.

Whereas the party hereto of the second part executed an agreement with the party hereto of the first part being agreement no. -----dated-----with contract cost of Rs-----for performance of ----- hereinafter called the 'Principal Agreement'.

Now it is hereby agreed by and between the parties that Indian Railway Finance Corporation shall be made an additional party to the Principal agreement executed between Railway and Contractor with effect from date of this agreement.

It is agreed by and between the parties that Railway shall continue to be held responsible for all obligations, risk and liabilities, whatsoever, arising out of or in connection with the Principal Agreement and this Agreement, whether during the progress of the work or after its completion.

It is further agreed and understood by and between the parties that IRFC shall be the owner of assets, if any, arising out of execution of works as defined in the Principal Agreement, except the land whose ownership shall continue with Railway. Accordingly, the invoices shall be issued by capturing GSTIN of contractor (as the supplier) and GSTIN of IRFC (as the bill to party). Also, the contractor shall submit the invoice, issued in the name of IRFC, to Railway for processing payment by Railway to Contractor subject to applicable TDS under the Income Tax, GST or any other applicable laws.

It is further agreed by and between the parties that IRFC shall be responsible to comply with Income Tax and GST laws in relation to filing of returns.

It is further agreed and understood by and between the parties that, except for the amended obligations as mentioned above, the terms of the Principal Agreement for all kind of contractual/performance and legal obligations shall remain in full force and effect.

All the communication in relation to the Principal agreement and said Agreement, would only be between party hereto of first part and Second part.

For and on behalf of the President of India

Witness of the Signature

1.
2.

Address:

For and on behalf of the Indian Railway Finance Corporation

Witness of the Signature

1.
2.

Address:

Signature of contractor

<Name of authorized signatory>

Witness of the Signature

1.
2.

Address:

Competency Certificate

Certified that Shri_____Supervisor/Operator of
M/s._____has been trained and examined in safety
measures to be followed while working in the vicinity of running railway track for the
work_____. His knowledge has been found satisfactory and
he is capable of supervising the work safely.

This certificate is valid only for the work mentioned in this certificate only.

Signature and designation of the officer

Part-III**SPECIAL CONDITIONS OF CONTRACT (GENERAL& TECHNICAL)**

1.0	All the clauses of General condition of contract-2022 or latest shall be applicable for this contract. These special conditions and the work schedule shall govern the works to be executed under this contract in addition to and/or in part supersession of the General Conditions of Contract-2022 as amended by correction Slips on or before the opening of tender.
2.0	<p>Order of Precedence of Documents: In a tender/contract, in case of any difference, contradiction, discrepancy, with regard to Conditions of tender/contract, Specifications, Drawings, Bill of quantities etc., forming part of the tender/contract, the following shall be the order of precedence:</p> <ol style="list-style-type: none"> Letter of Award/Acceptance (LOA) Bills(s) of Quantities. Special Conditions of Contract Technical Specifications as given in tender documents Drawings Indian Railways Standard General Conditions of Contract-2022 updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents. IR Specifications/Guidelines updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents. Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents. <p>As per Clause No. 1.01 Part-I of GCC-2022, with up to date correction slip</p>
3.0	Any special condition stated by the tenderer (s) in the covering letter submitted along with the tender shall be deemed as part of contract to such extent only as have explicitly been accepted by the Railway.
4.0	<p><u>FIGURES, DIMENSIONS ETC.</u></p> <p>Figures, dimensions and drawings shall supersede measurements by scale and drawing to larger scale shall take precedence over those to a smaller scale. Special dimensions or directions in the specification shall supersede all else.</p>
5.0	<p><u>PLEA OF CUSTOM</u></p> <p>The plea of custom prevailing will not on any account be permitted as excuse for an infringement of any of the conditions of the contract or specifications</p>
6.0	<p><u>TAXES</u> -The accepted rates should be deemed to include all taxes direct or indirect Including Income Tax leviable under Central/State or Local Bodies Act or Rules, Octroies, Tolls, Royalties, Seignior ages, Cess and similar imposts that may be prevailing from time to time in respect of land, structures and all materials supplied in the Performance of this Contract.</p>
6.0	<p><u>DEDUCTION OF INCOME TAX AT SOURCE</u></p> <p>In terms of new section 194 inserted by the Finance Act 1972 in the Income Tax Act 1961, the Railway shall at all the time arranging payment to the contractor sub-contractor (in case of sub-contractor only when the Railway responsible for payment of the consideration to him under the contract) for carryout any work (including supply of labour for carryout the work under the contract) be entitled to deduct income tax at source or income comprised in the sum of such payments. The deduction towards income tax to be made at source from the payments due to non-residents shall continue to be governed by section 195 of the Income Tax Act, 1961.</p>

7.0	<p><u>NOTICE TO PUBLIC BODIES</u></p> <p>The Contractor(s) shall give to the municipality, police and other authorities all notices that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges, which may be leviable on account of his operations in executing the contract. He should make good any damage to adjoining premises whether public or private and supply and maintain any lights, etc., required at night.</p>
8.0	<p><u>DAMAGE BY ACCIDENTS, FLOODS OR TIDES</u></p> <p>The contractor shall take all precautions against damage from accident, floods or tides. No compensation shall be paid to the contractor for his plant or material lost or damaged by any cause whatsoever. The contractor shall make good the damages at his cost to any structure or part thereof by any cause during the course of the work.</p>
9.0	<p><u>SERVICE ROADS</u></p> <p>The Contractor/s will be permitted to make use of existing service roads, or service roads constructed by the Railway for its use free of cost. New service roads required by the contractor/s either near the work site or elsewhere within or outside railway limits for carriage of materials or for any other purpose whatsoever, will have to be constructed and maintained by the contractor/s at his/their own cost. For the purpose of construction of service roads on railway land, permission will be given free of charge. If any land other than railway land is necessary to be acquired or to be entered upon, permission to enter in the land will have to be arranged by the contractor/s at his/ their cost. The contractor/s will not prefer any claim, whatsoever on this account. The Railway, however, reserves the right to make use of such service roads as may be constructed by the contractor/s without payment of any charges.</p>
10.0	<p><u>EMERGENCY WORKS</u></p> <p>In the event of any accident or failure occurring in, on or about the work or arising out of or in connection with the construction, completion or maintenance of the works, which in the opinion of the Engineer requires immediate attention, the Railway may bring its own workmen or other agency to execute or partly execute the necessary work or carry out repairs if the Engineer considers that the contractor/s is/are not in a position to do so in time and charge the cost thereof, which will be determined by the Chief Project Manager/Gati Shakti Unit, Jodhpur, North Western Railway, to the contractor.</p>
11.0	<p><u>MAINTENANCE PERIOD</u></p> <p>(a) For Supply, consultancy and hiring items. The maintenance period is limited to date of completion of work.</p> <p>All works other than mentioned in clause 11.0 (a) above.</p> <p>(b) The tenderer (s) shall be required to maintain the work effectively for a period of One Year (12 Months) from the date of commissioning of the work and no part refund of</p> <p>Security Deposit shall be permitted during the maintenance period mentioned above.</p>
12.0	<p><u>INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE</u></p>
12.1	<p>The contractor shall at all times, execute the contract work only in the presence and under the supervision of the Engineer's Representative or a Railway employee specifically appointed on his behalf. No work under the contract shall, therefore, be commenced by the contractor without the express permission of the Engineer's representative.</p>
12.2	<p>The contractor shall always execute the work under this contract in strict compliance with the instructions/directives by the Engineer's representative. Any act of non-compliance with the instruction/directives issued by the Engineer's representative shall be considered as a default of the contractor where after the Railway shall be free to take further appropriate action as provided in the contract for dealing with such defaults of the contractors. The decision of the Engineer-in-charge whether there has been an act of non-compliance with the instruction/directives of the Engineer's representative for the purpose of this clause shall be final and conclusive.</p>

12.3	The instructions/directives by the Engineer's representative shall not, however, absolve the contractor of his responsibility or reduce his responsibility in any manner whatsoever in regards to maintaining at all times the safe working conditions at the work site.
13.0	NON-COMPLIANCE WITH THE INSTRUCTIONS/DIRECTIVES OF THE ENGINEER'S REPRESENTATIVE
13.1	The contractor shall always comply with the instructions/directives issued by the Engineer's representative from the time to time. In the event of any non-compliance with such instructions/directives, apart from and in addition to other remedies available to the Railway as specified herein above the Engineer's representative may employ at the works Railway's workmen with necessary equipment as considered appropriate and adequate by him to provide the requisite conditions for the safe and unhampered movement of Railway traffic. The decision of the Engineer's representatives in regard to the need of appropriateness and adequacy of the deployment of the Railway Workmen with necessary equipment shall be final and conclusive.
13.2	When the Railway workmen with necessary equipment are deployed in the above manner, recovery at the following rate shall be made from the contractor's dues under this contract or any other money of the contractor available with the Railway under this contract. The recovery for the total Railway Workmen Hours employed as per actual irrespective of the type and grade of the Railway Employee actually employed. The aggregate period of the Workman-Hours for the above recoveries shall be reckoned from the time the Railway Workmen are actually deployed at the work site till the work is completed to the satisfaction of the Engineer's Representative whose decision in this regard shall be final and conclusive.
13.3	During the above-mentioned period of suspension of work, the contractor shall not in any manner attempt to carry out any work at the work site. Any such attempt of the contractor shall be deemed to be an unauthorized work on the work site. For such acts, the contractor shall then be liable for further appropriate action under the relevant provisions of the Indian Railway Act.
14.0	<p><u>WARRANTY</u></p> <p>The Contractor(s) shall warrant the materials supplied under this contract to be free of any defects in material and workmanship under ordinary use and service.</p> <ol style="list-style-type: none"> 1. The contractor shall warranty that all materials & equipment to be supplied and installed as per this tender shall be free from defects and faults in design, material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standard for materials of the type ordered and in full conformity with the contract specifications. 2. This warranty shall start from the date of commissioning and shall expire 01 year (12 months) after thereof. The Contractor shall be responsible for the proper functioning of the system during the period of warranty. 3. During the period of Warranty, the Contractor shall remain responsible to arrange replacement and for setting right at his own cost any equipment supplied by him, which is of defective manufacture or defective design or defective material/component and becomes unworkable due to any cause whatsoever. The decision of railways to attend to any damage or defect in work shall be final and binding on the Contractor. 4. If it becomes necessary for the contractor to replace or renew any defective portions of the system under this clause, the contractor shall make the system functional by providing suitable replacements and restore back the original card / equipment after repairs to the same. The card / equipment so repaired should bear warranty equal to the end of original warranty period or minimum Six months from the date of repair, whichever is later. If any defect is not remedied within reasonable time, the Railway may proceed to do the work at contractor's risk and expense, but without prejudice to any other rights, which the Railway may have against the contractor in respect of

	<p>such defects.</p> <ol style="list-style-type: none"> 5. All inspections, replacements or renewals carried out by the Contractor during the warranty period shall be subjected to the same conditions of the contract. 6. All replacement and repairs and design change that the Railway shall call upon the contractor to deliver or perform under this warranty shall be delivered and performed by the contractor within one month, promptly and satisfactorily. 7. The decision of the Railway in regard to contractor's liability and the amount, if any, payable under this warranty shall be final and conclusive. 8. Due to analysis of failures, if any design deficiency is pointed out by the Railway, the contractor shall rectify it at his own cost. 9. In subject of the warranty, the contractor shall make his security deposit as defined in Conditions of Contract & Instruction to tenderes, valid to cover the period of warranty also. 10. The Maintenance period given at Clause 11.0 above and warranty period shall be executed concurrently from the date of commissioning of work.
15.0	<p><u>SHIFTING OF ELECTRICAL/TELEGRAPH WIRES</u></p> <p>In some stretches, high-tension grid towers /electric telegraph/telephones wires or posts etc. are to be shifted. It is expected that the electric lines/towers will be shifted in good time but in case, there is any delay on this account suitable extension in date of completion will be considered and given to the contractor for only the effected portion and no compensation whatsoever in this respect or due to the delay thus caused will be payable and contractor has to adopt such methods of execution of earthwork so as not to cause any damage to existing structure lines etc.</p> <p>HANDING OVER OF SITE FOR WORK</p> <p>The entire land required for this work is available. However, Railway may not hand over the entire land required for completion of this work for making bank/cutting or excavation to the contractor(s) due to any unavoidable reasons. Land may be handed over in different stretches, which may not be continuous. Contractor(s) will be required to carry out the work in available stretches. If some stretch of land cannot be handed over to the contractor for borrowing earth or making bank/cutting within the contract period then suitable extension will be granted only for the affected portion without any payment of extra claim to the contractor.</p>
16.0	<p><u>ACCIDENT/NATURAL CALAMITIES</u></p> <p>Vehicle and equipment of the contractor can be drafted by Railway Administration in case of accidents/natural calamities involving human lives. For payment purpose, the item may be operated as New Non-Schedule (NS Item) as per existing norms and powers delegated. Contractor may submit list of vehicles and equipment available with him.</p>
17.0.	<p>Force Majeure Clause: If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of public enemy, civil commotion, sabotage, serious loss or damage by fire, explosions, epidemics/pandemics, strikes, lockouts or acts of God (hereinafter, referred to events) provided, notice of the happening of any such event is given by either party to the other within 30 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and works under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Engineer as to whether the works have been so resumed or not shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 120 days, either party may at its option terminate the contract by giving notice to the other party.</p>

17A	<p>17A Extension of Time in Contracts: Subject to any requirement in the contract as to completion of any portion or portions of the works before completion of the whole, the Contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses: (i) Extension due to Modification: If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the cause thereof shall arise and in any case not less than one month before the expiry of the date fixed for completion of the works.</p> <p>(ii) Extension for Delay not due to Railway or Contractor: If in the opinion of the Engineer, the progress of work has any time been delayed by any act or neglect of Railway's employees or by other Contractor employed by the Railway under Sub-Clause(4) of Clause 20 of these Conditions or in executing the work not forming part of the contract but on which Contractor's performance necessarily depends or by reason of proceeding taken or threatened by or dispute with adjoining or to neighboring owners or public authority arising otherwise through the Contractor's own default etc. or by the delay authorized by the Engineer pending arbitration or in consequences of the Contractor not having received in due time necessary instructions from the Railway for which he shall have specially applied in writing to the Engineer or his authorized representative then upon happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer within 15 days of such happening, but shall nevertheless make constantly his best endeavours to bring down or make good the delay and shall do all that may be reasonably required of him to the satisfaction of the Engineer to proceed with the works. The Contractor may also indicate the period for which the work is likely to be delayed and shall be bound to ask for necessary extension of time. The Engineer on receipt of such request from the Contractor shall consider the same and shall grant such extension of time as in his opinion is reasonable having regard to the nature and period of delay and the type and quantum of work affected thereby. No other compensation shall be payable for works so carried forward to the extended period of time; the same rates, terms and conditions of contract being applicable as if such extended period of time was originally provided in the original contract itself.</p> <p>(iii) Extension for Delay due to Railways: In the event of any failure or delay by the Railway to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the Railway due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the Contractor to damages or compensation there for, but in any such case, the Railway may grant such extension or extensions of the completion date as may be considered reasonable.</p>
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17.B	<p>17B Extension of Time with Liquidated Damages (LD) for delay due to Contractor: The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed not later than the date(s) as specified in the contract. If the Contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in Clause 17 and 17-A, the Railway may, if satisfied that the works can be completed by the Contractor within reasonable short time thereafter, allow the Contractor for further extension of time as the Engineer may decide. On such extension the Railway will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the Contractor as agreed damages and not by way of penalty for each week or part of the week, a sum calculated <u>at the rate of Liquidated Damages As decided by Engineer, between 0.05% to 0.30% of contract value of the works for each week or part of the week.</u> (updated as per RB Letter No.2022/CE-I/CT/GCC-2022/Policy Dated-14.07.22 with up to date correction slip).</p> <p>For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued. Provided also, that the total amount of liquidated damages under this condition shall not exceed 5% of the contract value or of the total value of the item or groups of items of work for which a separate distinct completion period is specified in the contract.</p> <p>Provided further, that if the Railway is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the Railway shall be entitled without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's Security Deposit and rescind the contract under Clause 62 of these Conditions, whether or not actual damage is caused by such default.</p> <p>NOTE:</p> <p>In a contract, where extension(s) of time have been allowed once under clause 17B, further request(s) for extension of time under clause 17A can also be considered under exceptional circumstances. Such extension(s) of time under clause 17A shall be without any Liquidated damages, but the Liquidated damages already recovered during extension(s) of time granted previously under clause 17B shall not be waived. However, Price variation during such extension(s) shall be dealt as applicable for extension(s) of time under clause 17B.</p>
18.0	<p><u>MOBILIZATION ADVANCE</u>(For Contract Value Rs. 25 Crores and Above) As per Provisions of GCC and Railway policy applicable.</p>
19.0	Contractor shall provide suitable manpower to Engineer in Charge or his representative at all times during currency of the contract for assisting him in giving layout of work, carrying out quality checks, taking measurements and other associated activities for effective supervision of work.
20.0	<p><u>DEPLOYMENT OF QUALIFIED ENGINEERS AT WORK SITES BY THE CONTRACTOR</u> (As per Clause No.26A of G.C.C. 2022 Part-II with up to date correction slip)</p>
20.1	The contractor shall also employ Qualified Graduate Engineer or Qualified Diploma Holder Engineer, based on value of contract, as may be prescribed by the Ministry of Railways through separate instructions from time to time.
20.2	In case the contractor fails to employ the Engineer, as aforesaid in Para 20.1, he shall be liable to pay penalty at the rates, as may be prescribed by the Ministry of Railways (Para 20.4) through separate instructions from time to time for the default period for the provisions, as contained in Para 20.1.
20.3	<p>No. of qualified Engineers required to be deployed by the Contractor for various activities contained in this works contract shall be as under: -</p> <p>(a)-One qualified graduate engineer when cost of work to be executed is rupees 200</p>

	lakh and above, and- (b)- One qualified diploma holder engineer when cost of work to be executed is more than rupees 25 lakh but less than rupees 200 lakh. (RB. Letter No-2012/CE-I/CT/0/20 dated 10.05.2013) or, Will be applicable as per latest advance correction slips of clause no-26A of GCC-2022 Part -II						
20.4	In case the contractor fails to employ the Qualified Engineer, as aforesaid in Para 20.1 above, he, in terms of provisions of Clause 20.2 to the Conditions of Contract, shall be liable to pay an amount of Rs. 40,000/- per Graduate Engineer and Rs. 25,000/- per Diploma Engineer for each month or part thereof for the default period for the provisions, as contained in Para 20.3 above respectively.						
21.0	<u>PRICE VARIATION CLAUSE</u> (As per Clause No. 46A of GCC 2022 with up-to-date correction slip) updated as per RB Letter No.2022/CE-I/CT/GCC-2022/Policy Dated-14.07.22 with up to date correction slip. PVC shall be applicable only in tender having advertised value above Rs. 2 Crores. (Price variation clause is not applicable for this work.)						
22.0	<u>HANDLING VITIATION DURING VARIATION IN CONTRACT QUANTITIES</u> Applicable as per GCC 2022, clause-41 Modification to Contract to be in Writing, clause-42. Power of Modifications to Contract, Valuation of Variations, clause-43 Claims(1) Quarterly Statement of Claims, (2) Signing of 'No Claim Certificate' and Railway Board Policy.						
23.0	<u>TECHNICAL CONDITIONS</u> As defined in part-iv						
23.1	SCOPE OF WORK: As defined in part-iv						
23.2	LOCATION OF SITE: at MANKLAV STATION						
23.3	COMPLETION PERIOD: - The entire work shall be completed within 12 Month from the date of issue of letter of acceptance.						
23.4	Contractor along with his offer will submit a tentative time schedule in the form of bar diagram to show his planning to complete the work. After award of the contract the time schedule will be jointly signed along with engineer-in-charge after carrying out necessary modification as suggested by engineer-in-charge.						
23.5	Meaning of similar works: Similar nature of work for minimum eligibility criteria in S&T works tender in this case should be as per NWR/HQ/Office Jaipur letter no.SG.176/0/Vol- II Dated 06.05.2022 as given below in tabular form. <table><tr><th>S.No</th><th>Type of Tendered Work</th><th>Similar Nature of Work</th></tr><tr><td>A.3</td><td>Any work related to EI including alterations in existing EI (involving indoor only) AND/OR Any work related to EI including alterations in existing EI (involving both indoor and outdoor) AND/OR Any Automatic Signalling work (involving indoor only) AND/OR Any Automatic Signalling work (involving both Indoor and Outdoor) AND/OR Any CTC/TMS work with or without</td><td>Any RRI/PI/EI/MACLS Supply, Installa Testing, Commissioning Signalling work OR Any RRI/PI/EI/MACLS Alterations Sign work OR Any CTC/TMS Work</td></tr></table>	S.No	Type of Tendered Work	Similar Nature of Work	A.3	Any work related to EI including alterations in existing EI (involving indoor only) AND/OR Any work related to EI including alterations in existing EI (involving both indoor and outdoor) AND/OR Any Automatic Signalling work (involving indoor only) AND/OR Any Automatic Signalling work (involving both Indoor and Outdoor) AND/OR Any CTC/TMS work with or without	Any RRI/PI/EI/MACLS Supply, Installa Testing, Commissioning Signalling work OR Any RRI/PI/EI/MACLS Alterations Sign work OR Any CTC/TMS Work
S.No	Type of Tendered Work	Similar Nature of Work					
A.3	Any work related to EI including alterations in existing EI (involving indoor only) AND/OR Any work related to EI including alterations in existing EI (involving both indoor and outdoor) AND/OR Any Automatic Signalling work (involving indoor only) AND/OR Any Automatic Signalling work (involving both Indoor and Outdoor) AND/OR Any CTC/TMS work with or without	Any RRI/PI/EI/MACLS Supply, Installa Testing, Commissioning Signalling work OR Any RRI/PI/EI/MACLS Alterations Sign work OR Any CTC/TMS Work					

		Automatic Signalling (involving indoor only) AND/OR Any CTC/TMS work with or without Automatic Signalling (involving both indoor and out door)	
	Note:- If the work involves provision of EI then it is mandatory to fill Appendix AF.		
24.0	<p><u>PAYMENT TERMS</u></p> <p>(i) All costs, damages or expenses, which Railways may have paid or incurred, which under the provisions of contract are Contractor's obligations will be deducted by Railways from progress payment Bills/Invoice of contractor, as and when it is understood that such an expenses has been incurred or paid for.</p> <p>(ii) All such claims of Railways shall, however, be duly supported by appropriate and certified vouchers, receipts or explanations as are available to enable the contractor to identify such claims.</p> <p>(iii) The contractor will be entitled to be paid from time to time by means of "ON ACCOUNT" payment only for such works as in the opinion of the Purchaser's Engineer which has been executed by him in terms of contract. Payment shall be made on submission of following documents to railway:-</p> <p>a) "ON ACCOUNT" payment shall be made separately for each item/sub item of work given in the Bills of Quantities. The bill shall be submitted by the contractor for each items of work which has been executed by him.</p> <p>b) Receipt of material at stores/Site as certified by the representative of Purchaser's engineer.</p> <p>c) Original Inspection Certificate issued by Inspecting Officer RDSO/RITES/Consignee.</p> <p>d) Delivery Challan /Invoice in Duplicate.</p> <p>a) Subject to any deduction which the Railway will be authorized to make under the terms of contract that may be applicable while accepting the tender, the Contractor shall be entitled for payment as below:-</p>		
24.1	<p><u>For SOR items:-</u></p> <p>The payment will be done as per payment condition in tender documents.</p>		
24.2	<p><u>For NS Items:- The payment will be done as per Payment condition defined in tender documents.</u></p>		
24.2.1	<p><u>For Supply/ Supply & Installation Items (NS-A)</u></p> <p>a) 80% of the accepted cost of the items (duly inspected by the nominated Inspection Authority) will be paid on receipt of the equipment by the Consignee.</p> <p>b) 10% of the accepted cost (in addition to the 80% released above) shall be paid after installation/erection of that particular equipment.</p> <p>c) The balance 10% of the accepted cost will be paid after commissioning of the station.</p> <p>d) 100% will be paid for spares & for items, which are not required to be erected/ installed by the contractor, on receipt of the equipment in good condition and no loss certificate by Consignee.</p>		
24.2.2	<p><u>For Installation Items (NS-B)</u></p> <p>a) 90% on account payment will be done after the supply & installation of the item and on the basis of measurements recorded.</p> <p>b) Balance 10% of Schedule will be paid on commissioning of the station and after issuing the satisfactory completion certificate by SSE in-charge of the work.</p>		

24.2.3	<p>The Payment to contractor will be made as per Railway Rules and regulations through running bills after making entries in MB/IRWCMS, and on submission of satisfactory maintenance certificate from the Concerned SSE/SIG of Jodhpur Division as nominated by CPM GSU/JU or Dy.CSTE/GSU/AII and duly signed by SSE & Contractor.</p> <p>Test check of the concerned works will be done as per latest norms/guidelines of NWR.</p> <p><u>Note for Clause 24.0, 24.1 & 24.2</u></p> <p>(i) For items pertaining to consignee inspection necessary purchase voucher of the items is to besubmitted.</p> <p>(ii) The final bill for the balance payment shall be submitted by the contractor along with “NoClaim Certificate”.</p> <p>(iii) Railway to clearly define NS-A & NS-B items in work schedule.</p>
25.0	<p>FINAL PAYMENT:</p> <p>On the basis of Final Acceptance Certificate issued by the Engineer for all the works covered in this contract, the final bill for the balance payment shall be submitted by the contractor along with “NO CLAIM CERTIFICATE”. The Final Acceptance Certificate shall be issued by Engineer onlywhen:</p> <ol style="list-style-type: none"> 1. He has accepted the work Completed Successfully. 2. All the released materials are handed over by the contractor correctly and stocked as indicated. 3. Material reconciliation done and all the unused Railway materials returned to Railway Stores in good condition.
26.0	<p>INSPECTING AUTHORITY</p> <p>Inspecting authority:</p> <p>For SOR Items: As specified in the SOR item.</p> <p>For NS Items: shall be RDSO/RITES/Consignee (Rly’s representative). (To be decidedby Railway as Applicable)</p>
26.1	<p>INSPECTION OF MATERIAL</p> <ol style="list-style-type: none"> a. All materials to be used for installation shall be subject to inspection by RDSO/RITES/Railway’s representative at the manufacturer’s premises. For this purpose , the Contractor shall give sufficient notice of time to RDSO/RITES/Railway’s representative when the material is ready for testing/inspection. All facilities as may be necessary shall be provided for carryingout the tests.. b. Whether a product has or has not been accepted at the point of manufacture, if, upon arrival at destination, it does not meet the requirements of the specification,it may be rejected and the Contractor shall undertake disposal of the rejected products and shall bear all charges. c. The contractor shall make such tests as may be necessary to demonstrate to the satisfaction of the Railway that the apparatus and the system as installed are in accordance with the requirement software the specifications and contract. The Contractor shall provide such instruments and apparatus as may be necessary formaking the tests.
26.2	<p>INSPECTION CHARGES</p> <p>The inspection charges for the inspection service rendered to the S&T contractors executing signal works shall be borne by the Railway. The Re-inspection charges for the re-inspection service rendered to the S&T contractor for any reason shall be borneby Contractor.</p>
27.0	<u>STORES</u>
27.1	<p><u>CONSIGNEE</u></p> <p>The consignee for this work will be Senior Section Engineer/Signal/GSU/Jodhpur oras nominated by CPMGSU/JU or Dy. CSTE/GSU/AII.</p>

27.2	<p><u>LOADING /UNLOADING OF MATERIAL</u></p> <p>The material shall be delivered by the Contractor at the Senior Section Engineer/signal/GSU/JU or as nominated by CPM/ GSU/JU or Dy.CSTE/GSU/AII. Material supplied by Railways for execution of the work & the materials delivered by the contractor shall be transported from the any Store of NWR to the site of work by the contractor.</p>
27.3	<p><u>MATERIALS AND WORKMANSHIP</u></p> <p>i). All the items which are to be procured as per IRS/RDSO specifications shall be procured from RDSO approved firms. Electrical / Electro Mechanical items which appear in RDSO approved list and supply value is above <Rs.5,00,000/-> should be got inspected by RDSO. All item irrespective of their value, if it falls incritical list of items (as mentioned by RDSO), will be inspected by RDSO. Any relaxation with respect to procurement/inspection shall be with the prior approval of the competent authority. The Railways' decision shall be final and binding on the contractor.</p> <p>ii) Certificate of inspection to be submitted along with the supply.</p> <p>iii) Before placing order and arranging supply of material, approval regarding inspecting authority will be taken from CPM/GSU/Jodhpur office.</p> <p>iv) The Railway shall have full powers to reject any material that the Railway may consider to be defective or inferior in quality of material, workmanship, design or otherwise, not in accordance with the specifications and drawings specified by the Railway.</p> <p>v) The Contractor shall remove for the with all rejected materials and replace such material at Contractor's expenses.</p> <p>vi) All material should be in properly packed condition and the consignee reserves the right to reject the material even though it was passed by RDSO.</p> <p>vii) When any stores delivery at the consignee's depots is rejected, this shall be removed by the contractor within 30 days from the date of rejection. Such rejected stores shall lie at the contractor's risk from the date of rejection. If the stores are not removed by the Contractor within this period, the purchaser or his nominee shall have the right to dispose of such stores, as thought fit, at the contractor's risk and account.</p> <p>viii) The purchaser shall also be entitled to recover from the contractor, handling and ground rent/demurrage and any other charges for the period during the rejected stores are not removed after the period as for mentioned.</p> <p>NOTE- As per MINISTRY OF RAILWAYS , RAILWAY BOARD Letter No. 2013/ Sig/ 23/01/(pt) Dup dated 17.02.2022</p> <p>i. OEM's authorization for breakup of cards/ modules at the time of bidding as contained in Para 5 of letter referred above is dispensed with.</p> <p>ii. <u>The requirement of submitting authorization from RDSO approved OEM at the time of bidding as contained in Para 7 of letter referred above is dispensed with. The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirements.</u></p>
27.4	<p><u>Indemnity by Contractors (Clause No.15 of GCC):</u> -The Contractor shall indemnify and save harmless the Railway from and against all actions, suit, proceedings, losses, costs, damages, charges, 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 the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.</p>
27.5	<p><u>Procedure for Store Receipt & Material Accountal.</u></p>

- i. For every work, a Tally book shall be opened by store In-charge. Receipt/dispatch/transfer/Balance entries are shown in Tally Book. Separate page is nominated for each item in Tally Book as per work schedule.
- ii. Material is received based on request of contractor. Contractor gives in writing the details of item including serial number and quantity of work schedule to SSE/Incharge. SSE/Incharge will inspect the material and its related documents mandatory as per contract agreement and material is entered to the Tally Book assigned for this particular work if found in order as per contract.
- iii. Whenever material is required for execution of work at site, contractor will request SSE/Incharge for issuing of material on his letter head/demand signed and stamped by his authorized person.
- iv. For issuing the material required by contractor as above, SSE/Incharge shall fill E-49 Form (Called HR) mentioning all relevant details and this form shall be signed by both SSE/Incharge and authorized representative of contractor. There after material is taken by contractor for site of work and stored temporarily under his own custody. Material so stored temporarily at site shall be secured and protected by the contractor at his own resources.
- v. While filling up measurement book, reference of E-49 and Tally Book are to be mentioned wherever required (applicable for both running & final bills).
- vi. Work site register will be maintained by the contractor for recording daily work progress and measurements which is also signed by Railway's representative deployed by SSE/Incharge.

Note: Paras i, ii, iii, iv, v and vi above, are applicable for accountal of material supplied by the contractor of sanctioned works costing less than Rs.2.5 Crores.

- a) Procedure for accountal of material supplied by the contractor of sanctioned works costing more than Rs.2.5 Crores:- In addition to accountal of material supplied by the contractor of sanctioned work costing less than Rs.2.5 Crores as mentioned in Para i, ii, iii, iv, v and vi above, field units should also maintain register and accountal of register at site MAS (Material at Site) in accordance with Para 1436 to 1446 of Engineering Code. The contractor will provide necessary assistance for this purpose.
- b) CONSIGNEE: The consignee for this work will be Senior Section Engineer (Signal/ GSU/JU) or other nominated JE/SSE by CPM/GSU/JU or Dy. CSTE/GSU/AII.
- c) LOADING/UNLOADING OF MATERIAL: All the material shall be transported by the contractor from any Store of NWR to the site of the work and vice versa with his own cost.
- d) Before issuing Railway material to the Contractor, SSE/Incharge will ensure that contractor has already indemnified all the Stores handed over to him and executed the Indemnity Bond for this purpose on standard Performa given along with these documents in **Appendix-AG**.
- f) The material which will be supplied by the Railway for execution of work will also be transported by the contractor from any Store of NWR to the site of the work.
- g) All stores drawn by the tenderer shall be accounted for either as installed as per site measurements recorded or as per surplus stores returned to the Site Inspector-in-charge.
- e) Empty cable drums will be the property of the Railway and shall be returned back to Railway store of SSE/Incharge by the contractor. If cable drums are not fully empty then cable shall be rolled back in same cable drum and handed over to Railway store. If empty cable drums are not returned back then recovery @Rs.560/per empty cable drum will be recovered from the running/final bill of the contractor.

27.6	<p><u>Security of Material</u></p> <p>a) Once the material is handed over to the contractor, the contractor shall be responsible for the security of material irrespective of the fact that the material is kept in Railway premises. The contractor shall make adequate arrangements at site as deemed necessary for guarding the same from the thefts by outsiders or his labour or damage of any sort.</p> <p>b) The cost of stores lost shall be realized by the Railway out of any payments due to the contractor in this contract or from any other contract executed by Govt. of India.</p> <p>c) The Contractor will indemnify all the Stores handed over to him and will execute the Indemnity Bond for this purpose on standard Performa given along with the documents. Execution of the Indemnity Bond will precede handing over any material to the Contractor.</p>
27.7	<p><u>Return of Surplus Store</u></p> <p>a) The stores found to be surplus shall be returned to Consignee by the Contractor with his own staff with immediate effect and proper (-) minus hand receipt will be issued to contractor on receipt of surplus material by the Railway depot staff.</p> <p>b) The contractor shall account for all material that was issued to him. A register shall be maintained by the contractor, which shall be signed by the Contractor as a token of receipt of material. All the issued material shall either be used in the installation or returned to Consignee.</p>
27.8	<p><u>Return of Released Store</u></p> <p>a) Released material shall be handed over to Consignee in systematic manner. Proper care should be taken while releasing & transporting the material at General Stores, of NWR (for the material to be D-S8ed) and other released material at Signal Stores (which will not be D-S8ed).</p> <p>b) Unless or otherwise specified, the rates cover the cost of tools and plants, ladders, scaffoldings and all other equipments required for dismantling.</p> <p>c) Unless otherwise specified, the rates includes leading of material up to the store of Sr. Sec Engineer/SIG/GSU/JU or as nominated by CPM/GSU/JU or Dy.CSTE/GSU/AII, the Store Depot of North Western Railway, stacking dismantled material in the store as required specially item wise.</p> <p>d) Royalty, Octroi and other charges on materials to be supplied by the contractor for construction of work except those to be supplied by the Railway will be borne by the contractor/s.</p>
28.0	<u>WORKS</u>
28.1	<p>NOTE- As per MINISTRY OF RAILWAYS , RAILWAY BOARD (रेलवे बोर्ड) Letter No.2013/Sig/23/01/(pt) Dup dated 17.02.2022</p> <p>i.) OEM's authorization for breakup of cards/ modules at the time of bidding as contained in Para 5 of letter referred above is dispensed with.</p> <p>ii.) The requirement of submitting authorization from RDSO approved OEM at the time of bidding as contained in Para 7 of letter referred above is dispensed with. The successful bidder shall submit an undertaking from RDSO approved EIOEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirements.</p> <p>SPECIFICATIONS, DRAWINGS</p> <p>A). Supply of following diagrams/documents shall form part of the contract (as applicable):-</p> <p><i>Documents for Indoor work:</i></p>

	<p>i) Signalling interlocking plan</p> <p>ii) Operating & Indication panel diagrams/VDU Diagram</p> <p>iii) Selection & Locking tables.</p> <p>iv) System Configuration of EI</p> <p>v) Wiring diagrams/Interface Circuit/ Equivalent Logic Circuit</p> <p>vi) Fuse analysis</p> <p>vii) Contact analysis</p> <p>viii) Rack erection diagram</p> <p>ix) Panel Tag Block analysis</p> <p>x) Tag blocks analysis of tag blocks installed on Cable termination rack.</p> <p>xi) Operating/maintenance & instruction manual.</p> <p>xii) Power supply arrangement with appropriate ratings of each module.</p> <p>Tentative SIP of station is provided at Annexure-AA. Items (i) to (vii) of the drawings shall be submitted to Railways for approval by the Contractor.</p> <p>Copies of drawings from items (viii) to (xii) shall be submitted to Engineer-in- charge for his approval. However, final tracings of these drawings shall be submitted to Railways for approval before commissioning.</p> <p>B) Documents for Outdoor documents</p> <p>i) Location terminal details</p> <p>ii) Cable Core chart</p> <p>iii) Cable route plan</p> <p>iv) Track Circuit Plan</p> <p>Note: All above documents initially shall be prepared by contractor and shall be submitted to Engineer in charge for approval.</p> <p>Once circuit design is submitted by the Contractor to Railways, it will be examined and Railways will indicate the kind of deficiencies, which are existing in the design. If required by Railways, the design team of Contractor will attend PCSTE's office to hold discussions in this regard.</p> <p>While indicating the deficiencies in design Railways will point out -</p> <p>(a) Functional requirement, which are not being met by the circuits.</p> <p>(b) Other violation of standard practices or codal provisions.</p> <p>Railways are not bound to carry out the exact corrections in the circuit or suggest the exact corrections to the contractor. It will be the duty of the contractor to modify the circuit, so as to ensure that all specifications, codal provisions and functional requirements are fulfilled by their circuit. After corrections are carried out by the contractor an advance approval to the circuit will be given. Deficiencies pointed out by Railway may not be exhaustive.</p> <p>Advance approval of the circuit from Railways will mean that Contractor can go ahead with the wiring. However, if any deficiencies are found at the stage of testing, it will be solely the responsibility of contractor to ensure that their design team is available at the spot to suggest and carry out alterations without waste of time. Approval by Railways to go ahead with wiring and testing will no way mean that the circuits have been finally approved and accepted.</p> <p>(c) The contractor shall be solely responsible for ensuring that the requirement of safety are incorporated in all designs and drawings and the drawings furnished by him, although these may have been approved by the Railway.</p> <p>(d). Specifications, drawings, requisites and requirements referred to in the body of this specification form an essential part thereof.</p> <p>The sources from which the drawings & specifications referred to in this Tender can be obtained from Engineer-in-charge.</p> <p>(e) The installation must comply with the Indian Railway Standard Specification</p>
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	<p>for relay interlocking systems (tentative) serial no. S-36-87 and 'Technical requirements' as laid down in this tender. The arrangements of interlocking and design of equipments etc. shall be in conformity with the practices followed on N W R and the System as a whole shall be so designed that the operation is reliable, safe and satisfactory under the local climatic conditions existing at the station. Information to be given by the Purchaser (Railways) as per IRS:S-36-89.</p> <p>(f). Installation shall comply with the requirements to the following manuals/books:-</p> <ul style="list-style-type: none"> • Signal Engineering Manual • Engineering Code • P-way manual • General & subsidiary Rules with latest correction slip. • Schedule of dimensions. <p>These books are available with Engineer-in-charge for this work which can be given on loan, if required, for reference.</p> <p>(g). After the contract is awarded, the Railway shall furnish to the Contractor, free of charge, a reasonable number of prints of the approved Signalling plan, control tower/cabin drawings and such other drawings as the Railway may consider necessary for proper execution of this work.</p> <p>(h) Future development: The contractor shall supply to the railway free of charge all software update, data and specifications that may result from developments effected by him or his collaborator in the period of currency of contract. The Railway reserves the right for such modified or improved versions in lieu of these originally quoted for, based on prices and other conditions mutually agreed upon.</p> <p>"For minor alterations in existing yard; alterations in existing logic will be submitted shown 'Red/Green'. Whether it is a minor alteration or not, it will be decided by the Engineer".</p>
28.2	<p>INSPECTION OF WORKS</p> <p>(i). The completed installation at all stages shall be subjected to checks and test as decided by Railways and the contractor shall be liable to remedy such defects as discovered during these checks and test and make good all deficiencies brought out. However, complete installation will be taken over finally on completion of the full system. It will be the responsibility of the contractor to rectify any discrepancy noticed within a period of one month from the date the complete system is taken over. For the purpose of taking over, joint inspection will be carried out by Dy.CSTE/GSU/AII or ASTE/GSU/AII and SSE/SE/JE(Sig./Tele). The contractor should make himself or his representative available at the time of joint inspection. The decision of the Engineer shall be final in the matter.</p> <p>(ii). The contractor will be called upon to pay all the expenses incurred by the Railway in respect of any work found to be defective or of inferior quality, adulterated or otherwise unacceptable.</p> <p>(iii). During the execution of the contract, samples may be taken for the purpose of test and/or analysis under the conditions laid down in specification, such samples to be prepared for testing and forwarded free of all cost to the Railway.</p> <p>(iv). A logbook will be kept at the work site by the contractor. The inspecting officer of the Railway may in addition to oral instruction to the representative of the contractor at the work site, enter such instruction as he deems fit in this log book. The contractor will be responsible to note necessary action and remedy the defects and ensure that the instructions either oral or written are complied with. His non-noting the logbook entries shall not be considered sufficient grounds for non-compliance of the instructions.</p>

28.3	<p>APPROVAL & MEASUREMENT OF WORK</p> <p>(i) 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).</p> <p>(ii) 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).</p> <p>(iii) The contractor should ensure that measurement has been made for such work, which is not possible to measure subsequently and shall remain hidden. For example:</p> <ul style="list-style-type: none"> • after trenching is done • after RCC trunk is placed in trench and properly aligned. • after the above is laid properly. • after the earth is filled. • After brick/slab/capping is laid. <p>(iv). Back filling of the trench shall be done only after the inspection and written confirmation from the Railway representative.</p> <p>(v). The contractor shall maintain record of cable laid as per Performa provided by Railways. (vi). Cable laying shall be done as per policy / guidelines issued by RDSO vide letter no. STS/E/Cable Laying Practices dated 31st October'2011 or latest.</p> <p>(vii). S&T Inventory / Assets register should be maintained as per performa specified in the note issued by CSTE/NWR vide note no. SG/176/1 dated 13.09.2012 or latest.</p> <p>(viii). Measurement of works by Contractor's authorized representative shall be applicable only if it is decided so by the Railway.</p>
28.4	<p>MATERIAL TO BE PROVIDED BY RAILWAYS</p> <p>Materials to be supplied by Railways in this contract are listed in Appendix-AE to these documents. All materials to be supplied by Railways shall have to be collected by contractor through his own labour and transport from the any store of NWR to the site of the work.</p>
28.5	<p>MODIFICATIONS</p> <p>(i). The contractor shall be responsible for and supply any additional equipment without extra cost for any alterations of the works due to any discrepancies, errors or omissions in the drawings or other particulars supplied by him, whether such drawings or particulars have been approved by the Railway or not due to inaccurate information or particulars furnished to the Contractor on behalf of the Railway. If any dimensions/figures upon the drawings or plans differ from those obtained by scaling the drawings or plans shall be taken as correct.</p> <p>(ii). Any minor modifications required during the course of work shall be done without extra charges and the Railway's decision as to whether the modifications are minor or not shall be final. Where modifications are not minor and the Railway is satisfied that the modifications are essential, they shall be carried out at extra charges to be approved by the Railway.</p>
28.6	<p>POWER SUPPLY</p> <p>230V/5A Electric power supply will be supplied by the Railways at the prevailing rate of electricity only on request of contractor for executing minor works like drilling of holes, soldering etc. for which contractor has to pay as per metered readings. However, contractor shall make his own arrangements such as portable generator for his use in case of power failure.</p>

29.0	<p><u>TRAINING</u></p> <ol style="list-style-type: none"> 1. The contractor shall provide adequate training at the manufacturer's premises to Railway personnel in planning, design, installation, operation and maintenance of the Equipments and system supplied under the contract (if required). 2. The tenderer shall undertake to train Railway personnel nominated by Railways in different aspects of equipment which include: <ol style="list-style-type: none"> a) System design and architecture b) Field installation, testing, commissioning. c) Operation, maintenance and repair, covering both hardware and software with cost analysis d) Fault diagnosis and analysis e) Failure rectification methods f) Data base programming g) All the issues arise out of day to day maintenance of the system. 3. The training should be comprehensive so as to impart full knowledge to Railway personnel deputed for the training to independently execute the installation, operation, maintenance, repair and minor alteration of all equipment. The training course should, apart from formal classroom training, include hands on practical experience and visits to working installation. The contractor shall make all necessary arrangement for the same. The place of training shall normally be at the manufacturer's premises or as decided mutually between the Railway and the Contractor. OEM should provide competency certificate to the Railway Personnel for the training imparted. Hard copies and soft copies of course module shall be supplied by the contractor to each trainee. The training courses should, apart from formal class room training, include hand on practical experience and visits to working installation. 4. The contractor shall at every stage of installation, testing and commissioning provide all facilities for adequate training of NW Railway personnel who may be deputed to work on the project. 5. The requirement of training in man-weeks has been indicated in the Bills of Quantities. The tenderer shall quote for the man week rates and Railways shall have the right to vary the training period indicated in the Bills of Quantities. 6. Set of documents related to training in adequate quantity shall be provided.
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(Annexure to letter No. 2021/Tele/5(2)/3-Part(1)(3425647) dated 12.06.2023)

GUIDELINES FOR PROTECTION OF CABLES WHILE DOING WORK ITS VICINITY
(For Undertaking Digging Work in the Vicinity of underground Signaling, Electrical & Telecommunication cables.)

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

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







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



Note:- The verification of the successful tenderer's credentials including BG, if not already verified, shall be ensured by the 'Agreement signing authority' before entering into the agreement with the agency. However, letter of acceptance (L.O.A) may be issued while verification is pending'.

(RB.letterNo2018/CE-II/CT12dated05.09.2023)

BILL OF QUANTITIES:-**S&T work in Connection with -"Proposed New Block Station along with development of Goods Shed at Manklav Station."**

S No	SOR /NS	Description of Item	Unit	Qty	Rate	Amount	Inspection Authority
		Schedule-"A" -SOR -Items (SNT-SOR-NWR-2020)					
1	1.2	Design, Manufacture & Supply of Electronic Interlocking (EI) System (with centralized arrangement) for 4 (FOUR) Line stations as per Signal Interlocking Plan in 'Hot Standby architecture'. EI system shall be provided to operate with dual VDU Control Terminal as per RDSO Specification No.RDSO/SPN/ 192/2019 Ver. 2 or latest and from RDSO approved source only. It mainly consist of Microprocessor Equipments, Interface Equipments, EI vendor specific Interfacing Relays , In-built event Logger, In-built Power Supply Equipments, Racks (Only Relay Rack/EI Rack), Indoor cables, Wires, Fuses , Fixtures, Mounting arrangements along with all accessories required to make complete EI system functional. Design of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. This item also includes supply of following :- (a) Supply of documents/manuals for EI system as per RDSO Specn.No. RDSO/SPN/192/2019 Ver. 2 or latest. (b) Supply & provision of protective devices like surge and lightning protection devices compatible to RE standards as recommended by OEM / RDSO. Note: It includes supply of all the material which is required to make complete EI system to be functional and as recommended by RDSO in Specn.No.RDSO/SPN/192/2019 Ver. 2 or latest. Design , manufacture & Supply of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time. The Technical Requirements are attached with the tender document. Railway will supply RDSO approved type of relays with approved contact configuration only . In case of requirement of vendor specific relays/relays with non-RDSO approved contact configuration being supplied, the same shall be supplied by the tendered and cost of required relays shall be included in the cost of EI (Electronic Interlocking) system and number & type of such relays shall be indicated separately. Inspection: RDSO Inspection charges: Borne by RailwaysPayment terms:100% after supply	Per station	1	12060441.72	12060441.72	RDSO
2	1.5	Installation, wiring, testing and commissioning of EI System with 'Hot Standby' architecture as supplied upto 6 (six) line station. It includes transportation of material from consignee's depot to the site, erection and grouting of EI Relay Racks, fixing and wiring of all the interfacing relays (Vital & Non-Vital), installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached with tender document (ii) Contractor has to arrange simulator/simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signalling function.(iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time. Inspection: Consignee Inspection charges: None Payment terms: 100% after commissioning	Per Station	1	624714.48	624714.48	Consignee

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3	1.9	Supply of work station note book as per Technical Specifications. It also includes supply of Laser Printer (Only branded). The workstation should be capable of reconfiguring the system in case of any alteration in yard interlocking in future. Technical Specifications should be attached with the tender document by Tendering authority. Inspection: Consignee Inspection charges: None Payment terms: 100% after supply	Per Stn.	2	86892.73	173785.46	Consignee
4	1.11	Supply of Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations . (This includes tools required for EI maintenance sorts of crimping, insertion, removal, general purpose tools like screw drivers, spanners, PCB extractor, temp. controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying case/ holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at site). Each set comprises of the following :- * Crimping tool for all types of special cable assembly used in EI system. * Insertion tool for all types of special cable assembly used in EI system. *Removal tool for all types of special cable assembly used in EI system. * Digital multimeter (Fluke 111 or better) * Steel cabinet/ Almira, Size: 1980mm height, 915 mm width and 485 mm depth (Godrej Make/Jalaram) of good quality to store tool, spare cards and documents. * Steel Book rack Size: 1850mm height, 900 mm width and 316 mm depth for keeping documents. (Godrej Make/Jalaram) * Clamp Earth Tester.(as per specs mentioned in tender document.) * Clamp Current Meter (fluke 362 or superior) Inspection: Consignee Inspection charges: None Payment terms: 100% after supply	Set	1	125748.67	125748.67	Consignee
5	1.12	Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution	Man/ Day	10	1106.23	11062.3	Consignee
6	1.13	Design, preparation & supply of drawings in computer print copies and original tracing in AUTO CAD FORMAT for Electronic Interlocking at each station. After completion of the work, the completion drawings incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). The technical specifications are as per ANNEXURE 1.13 of SOR. Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.	Per station	1	175967.35	175967.35	Consignee
7	1.14	Training of Officers for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system.(Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.	Man/ Day	10	1097.13	10971.3	Consignee
8	1.15	Supply of embedded fanless PC based VDU control terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 42 inch. Note: (i) Technical requirements shall be mentioned in the tender document. (ii) One revolving chair should be supplied with control terminal. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply	No.	2	409839.20	819678.4	RDSO

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9	1.16	Installation, wiring, testing and commissioning of embedded fanless PC based VDU control terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.	No.	2	102459.80	204919.6	Consignee
10	1.17	Supply of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 42 inch. Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. (ii) One table of suitable size along with revolving chair should be supplied with Maintenance terminal. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply	No.	1	385774.44	385774.44	RDSO
11	1.18	Installation, wiring, testing and commissioning of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . Note: (i) Technical requirements shall be mentioned in the tender document. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.	No.	1	96443.61	96443.61	Consignee
12	1.21	Preparation of SWR literature in english alongwith associated mid-section interlocked gate with all corrections as per approved SWRD & approved SIP. For this all technical corrections, editing, grammatical correction etc. are to be carried out and one rough print to be given to railways for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in format provided by Rly. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.	Station	3	3598.62	10795.86	Consignee
13	1.22	Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software)as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. 1.21 of Chapter 1 of SOR. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.	Station	3	4478.18	13434.54	Consignee
14	1.23	Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.	Set	30	178.52	5355.6	Consignee
15	1.24	Supply of maintainer's furniture of godrej make or superior and each set consist of(i) executive revolving bearing series low back-floating chair with normal arms cushioned chair-01 Nos. (ii) Executive table size 1650x900x728 mm with 3 drawers one side locker- 01 no (iii) visitor chair seat & back cushion with high density foam with plastic pvc handle capsule type painted back-03 nos. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.	Set	1	22986.88	22986.88	Consignee

16	1.28	Preparation and supply of laminated one set of all the completion plans including circuit diagrams and indoor as well as outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will also be provided for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Signalling Plan, SWR Diagram, Wiring Diagrams, Selection table, Locking table, Contact analysis, Fuse and Tag Block analysis of Relay Rack, CT rack, Control cum Indication Panel/VDU Diagram, Power Panel Diagram, Track circuit plan, rack erection plan and Junction Box details etc. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.	Sheet	100	161.07	16107	Consignee
17	1.30	Addition/alteration in existing relay room wiring. It includes supply of PVC insulated indoor Railway signalling cable (60-Core/40-Core) of (1/0.6) sqmm as per RDSO Speen.No.IRS/S-76/89 (Amnd.2 or latest) for wiring between relay room and SM's/Panel room & Relay room to DP in SM office for block working. This also includes supply of PVC insulated jumper wires of multi strand 16/.2 mm, tinned in all colours as per RDSO Specn.No.IRS-S-76/89(Amnd.2 or latest). This item will include bringing all the power supplies from power room to respective bus bars on relay racks by using 10/6 sqmm copper flexible wire as per instructions of engineer incharge. This will include wiring between control panel and relay room if required. All wiring will be done as per standard practice of North Western Railway with neat dressing & threading. The item includes supply & wiring of tag block, fuse with bases(G-Typeand ND Type) and all other related material required for complete indoor wiring in relay room. Inspection: Consignee Inspection charges: None	Per Relay	50	524.10	26205	Consignee
18	2.2	Supply of Micro Processor based Data Logger System with 1280 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/Canon). It includes supply of all the items required for complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply up to Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD , IPS, UFSBI, BI ,interlinking and networking of Data logger. It also includes supply of leased line MODEM , suitable online UPS (minimum 6 hours backup) and other interfacing cards, if required for networking of Data Logger. This also includes supply of one no. composite computer and printer table (Godrej work station table or similar) for keeping processor module and one number Godrej operator chair Model PCH7001 or similar. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply	No.	1	485984.88	485984.88	RDSO

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19	2.3	Installation, wiring, testing & commissioning of Micro Processor based Data Logger System with 1280/ 4096 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest It cover complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets,ELD , IPS,UFSBI, BI interlinking and networking of Data logger. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor.. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines.Networking of data logger includes extraction of data report from test room.For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of data logger by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre- Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee,Inspection charges: NonePayment terms:100% after commssioning	No.	1	121496.22	121496.22	Consignee
20	2.14	Supply,of Failure Analysis System (FAS) as per Technical Specifications.The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge. (Technical specification shall be provided in tender documents.) Inspection: Consignee Inspection charges: Borne by Railways Payment terms:100% after supply	No.	1	163959.37	163959.37	Consignee
21	2.15	Installation, testing and commissioning of Failure Analysis System (FAS) as per Technical Specifications.The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In- Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning	No.	1	40989.84	40989.84	Consignee
22	2.20	Supply of 750 VA Off line UPS with battery backup 3 Hours for Failure Analysis System of reputed make of Emerson/APC or superior as per Engineer in-charge. Inspection: Consignee, Inspection charges: None Payment terms:100 % after supply.	No	1	26250.00	26250	Consignee
23	3.2	Relay fail safe electronic time delay device with fixed timing (0 -120) seconds and conforming to RDSO Specn.No.IRS:S-61/2000 with Amnd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc.The interlocking code for this unit shall be "AFGKY". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No	5	1836.67	9183.35	RDSO
24	3.5	Q-Series Neutral Line Relay (QN1 Type), 12F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCDE". Inspection authority:- RDSO Inspection charges:- Bornee by Railways Payment Terms:- 100% after supply.	No.	20	3943.56	78871.2	RDSO

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25	3.6	Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCDF". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	70	3789.37	265255.9	RDSO
26	3.7	Q-Series Twin Neutral Line Relay(QNN1 Type), 6F/2B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ACDEK". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	100	4985.33	498533	RDSO
27	3.8	Q-Series Twin Neutral Line Relay(QNN1 Type), 4F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ACEHJ". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	100	3938.00	393800	RDSO
28	3.9	Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B,24V DC complete with plug board(base plate), connectors and retaining clips and conforming to BRS- 935A and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be "ABDEG". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	10	5701.45	57014.5	RDSO
29	3.13	Q-Series LED ECR (Universal Type i.e.QECX-61), 4F/4B complete with plug board(base plate), connectors, retaining clips etc and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 ,Amtd.- 1and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be "ABDHK". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	50	4983.53	249176.5	RDSO
30	3.14	Sealing wire used for sealing of signaling relays & equipments. Inspection authority:- Consignee Inspection charges:-None Payment Terms:- 100% after supply.	Kg	5	175.27	876.35	Consignee
31	3.16	DC neutral line relay QNA1K , AC immune, DC neutral line 24V, 6F/6B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS:931A & RDSO letter no STs/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest.The interlocking code for this unit shall be "CDEKY". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	20	4812.82	96256.4	RDSO
32	3.18	Q-Series Line Relay (QNA1 Type),AC immunized, 8F/8B, 24 V DC along with plug board (base plate), connectors, retaining clips etc and conforming to BRS- 931A and RDSO Specn.No.IRS:S-34, S-23 and S-60 or latest. The interlocking code for this unit shall be "ABDGH". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	80	3913.67	313093.6	RDSO
33	3.20	Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B along with plug board (base plate), connectors, retaining clips etc and conforming to BRS:939A & 966(Appendix F2) or latest.The interlocking code for this unit shall be "FGHKX". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	50	3734.70	186735	RDSO

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34	3.21	Q-Series Neutral Line Relay(QSPA1 Type), 24V DC,8F/4B along with plug board (base plate), connectors, retaining clips etc and conforming to BRS-933A and RDSO Specn.No.IRS:S-34, S-23 & S 60 or latest.The interlocking code for this unit shall be "ABDEJ". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	50	5211.27	260563.5	RDSO
35	3.25	Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with case, RDSO spec no. RDSO/SPN/219/2016 ver 1.0 or latest, confirming to IRS S-23, S-34 & S-60, IRS S:46. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:-Bornee by Railways Payment Terms:- 100% after supply.	No.	10	9440.00	94400	RDSO
36	3.26	Point Contactor relay AC immune, plug in type, style QBCA1 DC biased contractor, (QBCA1 Type), 24 V DC, 2F(HD)2F-4B contacts , heavy duty metal to carbon front contacts and back contacts metal to carbon, complete with plug board, retaining clip & connectors, conforming to BRS- 943 and IRS:S-34 & S-23 or latest. The interlocking code "DEHJX". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.	No.	20	7080.00	141600	RDSO
37	4.1	Supply of PVC insulated multi strand, single core copper conductor of size 16/0.2 mm (0.5sqmm) as per IS 694:2010 and RDSO Specn.No.IRS:S-76/89 (Amnd-3) or latest. Each coil should be of 100/200/500 meters length.Colour of the wire which is required will be specified by the Engineer incharge.Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs(ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) NonePayment Terms: 100% on Supply	Km	1	5813.26	5813.26	Consignee subject to procurement from RDSO approved vendors
38	4.2	Supply of 1 x 6 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 84 conductor each dia 0.30 +/- 0.01 with insulation thickness of 0.8 mm and nominal conductor resistance of 3.3 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways(ii) None Payment Terms: 100% on Supply	meter	100	36.37	3637	Consignee subject to procurement from RDSO approved vendors
39	4.4	Supply of 1 x 16 Sqmm (Red/Black/Green) multi strand copper power wire as per IS: 694:2010 or latest, 127 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.21 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in works more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways(ii) None Payment Terms: 100% on Supply	meter	100	99.45	9945	Consignee subject to procurement from RDSO approved vendors

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40	4.6	Supply of 1 x 35 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 277 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.554 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in works more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	meter	100	176.93	17693	Consignee subject to procurement from RDSO approved vendors
41	4.7	Supply of wiring material in relay room for potential free relay contacts for digital & analog Inputs (1280 digital inputs and 32 analog inputs). It includes supply of PVC insulated indoor Railway Signalling cable (1/0.6 sqmm dia), 60-Core/40-Core/Single Core as per RDSO Specn.No.IRS:S-76/89 (Amnd.3) or latest, PVC insulated jumper wires multi strand, tinned in all colours as per RDSO Specn.No. IRS: S-76/89 (Amnd.3) or latest. The item also includes supply & wiring of Modular disconnect terminals /Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751 or latest. The wiring for getting potential free contacts of relays for complete PI/RR/IEI installation including points, tracks, signals, panel, power supply, IPS, SSDAC, TLBI, LC Gates, crank handle control etc will be done by contractor. All material will be supplied by contractor except the relays. The Relays will be supplied by Railway. Inspection: (i) RDSO/RITES if value of item in works more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Installation & commissioning	Per station	1	38132.15	38132.15	Consignee subject to procurement from RDSO approved vendors
42	4.13	Supply of Cable Termination (CT) racks as per Drg.No.CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals / ARA terminals not covered under this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in works more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	4	22732.41	90929.64	Consignee subject to procurement from RDSO approved vendors
43	4.14	Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on NWR & the instruction of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on Commissioning.	No.	4	8687.12	34748.48	Consignee
44	4.15	Supply of ARA Terminal Block (M-6) made of PBT/Poly Carbonate as per RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest and RDSO Drg.No. SA-23741A(Alt. 4) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.	No.	10000	87.41	874100	RDSO
45	4.16	Supply of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. 4) or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.	No.	100	152.98	15298	RDSO

Signature of Contractor

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	4.17	Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.					Consignee
46	4.17 (i)	0.6 A	No.	200	61.11	12222	Consignee
47	4.17 (ii)	1.6 A	No.	200	64.41	12882	Consignee
	4.18	Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.					Consignee
48	4.18(i)	0.6 A	No.	200	20.23	4046	Consignee
49	4.18(ii)	1.6 A	No.	200	18.22	3644	Consignee
50	4.19	Supply of round head type non-decorating type low voltage cartridge fuse as per RDSO Specn.No.IRS:S-78/92 or latest and Capacity - 2/4/6/10A/16A/20A Amp. (Material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.	No.	500	54.64	27320	Consignee
51	4.24	Supply of PVC insulated Railway Signaling multi-core Indoor Cable 60core (0.6mm dia) conforming to IRS:76/89(Amd3) or latest. Inspection: (i) RDSO/RITES if value of item in works more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	Km	1	154443.58	154443.58	Consignee subject to procurement from RDSO approved vendors
52	4.25	Termination of Outdoor Cables (Main Cables /tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engr. incharge of the work. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution	Per Conductor	2000	8.46	16920	Consignee
53	4.28(i)	Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)	No.	5000	54.63	273150	Consignee subject to procurement from RDSO approved vendors
54	4.28(ii)	Supply of End plate for item 4.28 (i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement.	No.	1000	10.24	10240	Consignee subject to procurement from RDSO approved vendors
55	4.28 (iii)	Supply of End Stopper for item 4.28 (i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement.	No.	1000	10.24	10240	Consignee subject to procurement from RDSO approved vendors
56	4.28 (iv)	Supply of Carrier Rails for above 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.	Mtrs.	200	106.98	21396	Consignee subject to procurement from RDSO approved vendors

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57	4.28(v)	Supply of Markers strip for item 4.28 (i) of Chapter 4 of revised SOR	No.	5000	15.93	79650	Consignee subject to procurement from RDSO approved vendors
58	4.34	Supply of Fuse auto changeover system for used in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 32 nos. of external Non Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. Inspection:(i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.	Per Module	12	29277.62	351331.44	Consignee subject to procurement from RDSO approved vendors
59	4.35	Supply of Fuse auto changeover system for used in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 24 nos. of external Non Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card. Inspection: (i) RDSO/RITES: if value of item in works more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs or as per extant policy. Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.	Per Module	6	48285.03	289710.18	RDSO
60	4.36	Installation wiring testing and commissioning of Fuse change over system (FACS). This includes provision of common Buzzer & indication at ASM Room & ESM Duty Room and painting of fuse details. This also includes fabrication of frame for installation of FACS at Station/ LC gate where installation of relay racks not feasible. Inspection: Consignee Inspection charges: None Payment Terms: 100% on commissioning	Per Module	12	885.44	10625.28	Consignee
	5.14	Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc.Any masonry work required will be carried out by contactors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution					Consignee
61	5.14(i)	For Station	Nos.	1	103449.88	103449.88	Consignee
62	5.15	Supply of DC to DC Converter, 110V DC/24V DC, 10 Amp as per RDSO Specn.No.S-96/2000 or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply	No.	2	16161.14	32322.28	RDSO

Signature of Contractor

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Dy.CSTE/GSU/AII

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63	5.25	Supply of Self Regulating Type Battery Charger,230V AC/110V DC, 60-100 Amps as per RDSO Specn.No.IRS:S-86/2000 (Amnd.4) or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply	No	1	159408.42	159408.42	RDSO
	5.26	Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.					RDSO
64	5.26(i)	2V, 80 AH	No.	150	2067.93	310189.5	RDSO
	5.27	Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution.					Consignee
65	5.27(i)	2V 80AH	No.	135	371.02	50087.7	Consignee
66	5.27 (iii)	2V 300AH/ 500 AH	No.	60	986.73	59203.8	Consignee
67	5.43	Supply of 4 stroke petrol driven, Kerosene operated portable Generator set self start, 2KVA capacity, and Petrol start kerosene run (Birla Yamaha /Honda). Original Manufacture Certificate to be Submitted. Note: - Contractor takes approval for Make/ Model No. from Engineer In-Charge before supply. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	1	51072.24	51072.24	Consignee
68	5.45	Suppl of Class 'C' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V AC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	5	2293.27	11466.35	Consignee
69	5.46	Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	5	4838.06	24190.3	Consignee
70	5.48	Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 24V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box.Inspection: Consignee Inspection Charges: NonePayment Terms: 100% after Supply.	No.	5	5413.94	27069.7	Consignee
71	5.49	Supply of Transient Surge Suppressor Electronic Grade Surge protective device (Surge) current Capacity 50 KA as per following Specifications: -1) Connection Type: Parallel, 2) Nominal discharge current: 3KA, 3) Response Time : <0.5 nanoseconds, 4) Status Indication: LEDs, Dry Contacts. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	5	51611.70	258058.5	Consignee
72	5.50	Installation and commissioning of various classes of lightening cum surge protection device as decided by site engineer. This include supply and fixing of any other material required to complete the installation & commissioning of lightening cum surge protection device. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.	No.	15	245.83	3687.45	Consignee

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73	5.57	Supply of maintenance stand for relay room / battery room as per samples as per samples /drawings approved by the site engineer in charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply.	No.	1	2390.64	2390.64	Consignee
74	5.58	Supply of active lightening arrester of Class A for building protection as per standard NFC-17-102. It shall work on early streamer emission principle & shall be made of stainless steel with a T of 60 microseconds. Non resettable type counter shall also be supplied to count the number of lightening occurrences. It also includes supply of electrolytic copper tape of 25mmX2mm or better for connecting class A device to the earth pit. This includes installation, testing and commissioning of Class A device on the top of the building. This device shall be installed at suitable height on the roof of the building using a GI mast as per instructions of Railway engineer at Site. The device shall be connected to earth pit using a copper tape of 25mm x 2mm or better. This copper tape shall be run firmly only the site of the mast with the help of spacers. It shall also be ensured that the down conductor shall not touch the building throughout. The down conductor shall be connected to the earth electrode using exothermic welding. A counter shall be installed at appropriate space to count the number of occurrence. All the accessories like spacers, welding material etc. required for installation shall be arranged by the contractor. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.	No.	1	66992.10	66992.1	Consignee
75	6.1	Supply of ELECTRIC POINT MACHINE 143 MM STROKE AC IMMUNITY 160V AC COMPLETE WITH LOCK DETECTOR AND SLIDES FOR LOCK DETECTOR NON -TRILABLE TO OPERATE ON 110 V DC ROTARY LOCKING WITH CRANK HANDLE UNIVERSAL TPE AS PER RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) RDSO DRG. NO S-10800 (ALT.5) WITH JUNCTION BOX TELESCOPIC. THE MOTOR WILL BE AS PER RDSO SPECN. NO. IRS: S-37/82 (AMND. 3) WITH RDSO DRG. NO. S-10910. This includes supply of Set of tools as per para20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less. i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 along with compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.	No.	15	60412.20	906183	RDSO

76	6.3	Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes : (i) Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on NWR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	No.	14	27586.01	386204.14	Consignee
77	6.4	Point insulation Complete set as per RDSO/SPN/168/2005 for 1.Switch bracket'D' bracket insulation for IRS point machine - One set comprises of (a)Side plate LH to Drg.No.S-3266 - 1 No. (b) Side plate RH to Drg.No.S-3265 - 1 No. (c)Insulating bush to Drg.No.S-3199 - 4 Nos. (d) Insulating washer to Drg.No.S-8640 - 4 Nos., 2. Split-Stretcher bar 2.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 – 2 Nos. (b) Insulating bushing for leading insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 – 6 Nos. 2.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 – 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 – 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 – 12 Nos & 3. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 – 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as perRDSO drg.No.T-10371 – 6 Nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	Set	14	1290.61	18068.54	Consignee subject to procurement from RDSO approved vendors

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78	6.5	Gauge Tie plate insulation as per RDSO/SPN/168/2005 as per RDSO drg No: T- 10372Alt2, T- 10368, T-10371Alt2, T-15083/88/Alt2 & T-11690/Alt2 and as per RDSO/SPN/168/2005 with latest amendments as applicable. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 – 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as per RDSO drg.No.T-10371 – 6 Nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	Set	14	1156.31	16188.34	Consignee subject to procurement from RDSO approved vendors
79	6.6	Ground connections, complete set suitable for IRS type / approved point Machine for ordinary turnout with tongue attachment insulation and other insulation as per RDSO Drg. S/3361/62/63 (for IRS type point machine) or RDSO Drg No.SA-9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after confirmation from Railway engineer as per site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in works more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	Set	12	6829.74	81956.88	Consignee subject to procurement from RDSO approved vendors
80	6.7	Ground connections, complete set suitable for IRS type/approved point Machine for derail switch with tongue attachment insulation as per RDSO Drg. S/3361/62/63 (for IRS type point machine) or RDSO Drg No. SA 9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after Confirmation from Railway engineer as per latest site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in works more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	Set	2	5847.56	11695.12	Consignee subject to procurement from RDSO approved vendors

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81	6.14	Supply of William Stretcher Insulation Set (complete) as per RDSO/SPN/168/2005 with insulating bush and washer to suit point layout and conforming to RDSO Drg.No.T- 10372 or latest, T-10368 or latest and T-10371 or latest. 1.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 – 2 Nos. (b) Insulating bushing for leadingg insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 – 6 Nos. 1.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 – 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 – 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 – 12 Nos Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	Set	14	386.13	5405.82	Consignee subject to procurement from RDSO approved vendors
82	7.1	Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.	No.	45	4505.12	202730.4	RDSO
83	7.2	Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161-66/M or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	45	1439.17	64762.65	Consignee
84	7.3	Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, B type choke etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make teminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & `B' type choke & Track relays, ARA terminal/Modular terminals wago/phoenix contact type will be supplied by Railways / covered in Schedule separately). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.	Per Track Cct.	40	6354.01	254160.4	Consignee

85	7.4	<p>Installation of DC track circuits covering all types of Track circuits including points zones also. The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of 7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint(if required), fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. In case Engineer at site desires that jumpering from TLJBs is to be done using signalling cable 2 coreX 2.5 sqmm , contractor shall provide the jumpering cable using 2 X 2.5 sqmm signalling cable. The signalling cable will be supplied by Railways. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item does not include includes supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs Installation of of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. (a) Installation and commissioning of TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc. (b) Installation and commissioning of Each TLJB having two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long. Alongwith each TLJB , nickel chrome plated brass links(two nos. Of adequate strength for vertical linking of the terminals to be wired and fixed properly. (c) Installation of HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) Installation of the FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts. The TLJB and the angles for stump should be fixed in given holes on them for fixing using galvanised nuts and bolts . Inspection: Consignee Inspection Charges: None</p>	Per Track Circuit	40	7952.90	318116	Consignee
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86	7.5	Supply of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. The technical specifications are as follows: (a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc. (b) Each TLJB shall have two bakellite terminal block fitted horizontally : each bakellite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be supplied. (c) HDPE pipe of size 32/35mm , 380 mm long along with two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanized nuts and bolts. The TLJB and the agles for stump should come along with holes on them for fixing using galvanized nuts and bolts of adequate strength to be supplied along with TLJB drawing no. 11509. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	200	1778.40	355680	Consignee subject to procurement from RDSO approved vendors
87	7.7	Supply of B Type Choke as per RDSO Specn.No.IRS:S-65/83 (Amnd. 1) or latest. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after supply.	No.	90	4098.94	368904.6	RDSO
88	7.8	Supply of Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M. Inspection: Consignee Inspection Charges: NonePayment Terms: 100% after Supply.	No.	1000	5.69	5690	Consignee
89	7.9	Supply of GI wire 8 SWG (4mm dia) suitable for track circuit rail bonding. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	Kg	100	66.01	6601	Consignee
90	7.10	Provision/Installation of bonding with GI wire 4mm dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm dia holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly. Engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution.	No.	250	179.82	44955	Consignee
91	7.11	Supply of Hydrometer, Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	10	257.21	2572.1	Consignee

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92	7.27	Installation and commissioning of Central Evaluator of axle Counter, wiring from CT rack to Central Evaluator, installation and wiring of the reset box, LV box (if required) and associated power supply wiring. This includes supply of shielded cable of required conductor size for wiring between CT rack to evaluator rack, all other wires, power supply cable and wiring materials. The power supply cable from power room to Central Evaluator should not be less than 10 sq.mm PVC wire. Earthing as per OEM's guidelines & specification with their own material. This also includes painting and writing work on evaluator as per site requirement. NOTE: Installation/ programming/ configuration/ commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/ RDSO preferably by Authorised representative of OEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.	Numbers	5	15355.25	76776.25	Consignee
93	7.28	Installation of track device (double rail contact) including digging of trench, track crossing, laying of anti-rodent, anti-oxidant & non-flame propagating type Double Walled Corrugated (DWC) pipe as per IS- 14930 part- I or II or latest and all other accessories as per site requirement to be for laying of transmitter and receiver cable. The item also includes installation of EJB / Track side Electronics including foundation & earthing as per OEM's guidelines and Technical requirement & specification. NOTE: Installation/ programming/ configuration/ commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/RDSO preferably by Authorized representative of OEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.	Numbers	24	13069.94	313678.56	Consignee
94	7.37	Installation, testing and commissioning of SSBPAC(Digital) for Single Line/Double lineas per RDSO Specification No. RDSO/SPN/175/2005 Ver. 1 or latest alongwith station master block panel alongwith DTMF based Electronic Block Bell & Block Telephone equipment as per specification No RDSO/SPN/191/2005(Ver. 0) or latest , Microprocessor Lighting & Surge protection Devices for power line 24 DC Class-C, Lighting & surge protection devices for DATA Line Class-D,EKT for Shunt Key as per Drg. no. SA- 22601/Alt.4 & IRS: S-21/2001 and associated data cable including wired relay rack without relays.(Required relays for this item will be supplied by Railways) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	No.	4	171852.45	687409.8	Consignee
95	7.38	Supply of Automatic Media changeover Card for SSBPAC(D) which includes One Voice Modem Circuit and One E1 Converter Circuit, for working on redundant channels for data transmission on OFC/Quad. Necessary Lightning & Surge protection devices for data lines need to be provided. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.	Pair	3	107188.70	321566.1	RDSO
96	7.39	Installation and commissioning of Automatic Media changeover Card for SSBPAC(D) which includes One Voice Modem Circuit and One E1 Converter Circuit, for working on redundant channels for data transmission on OFC/Quad. Necessary Lightning & Surge protection devices for data lines need to be provided. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	Pair	2	26797.18	53594.36	Consignee
97	7.41	Supply of hand operated track drilling machine for bonding hole. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.	No.	2	8051.14	16102.28	Consignee

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98	8.3	Installation of LED signals lamps for auxiliary/subsidiary signals/main signals (i.e. route, shunt , calling on, Red , Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	No.	90	178.89	16100.1	Consignee
99	8.4	Supply of Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 =1 No , Number plate clamps to Drawing No. S 23148 Alt.1 =2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1(1No), Platform to Drawing No. SA 23134 Alt.1(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.)Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent NWR Practice. Note: Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs(ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	22	10791.46	237412.12	Consignee subject to procurement from RDSO approved vendors
100	8.5	Supply of Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	2	4462.49	8924.98	Consignee subject to procurement from RDSO approved vendors
101	8.6	Supply of Offset brackets for Shunt Signal, made of tubular steel, outer diameter 89 mm, thickness of pipe 4.5 mm. horizontal length of pipe 324 mm & vertical length of pipe 324 mm with fixing arrangement on Shunt Signal post as per Drawing No SW/354/I Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs\ (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	8	4336.16	34689.28	Consignee subject to procurement from RDSO approved vendors
	8.7	Erection of CLS Post with base and signal unit on top or on OFFset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer - In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.					Consignee

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102	8.7(i)	2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3/4/5/6 or multilamp lamp route indicators/Stencil type route indicator mounted on signal post.	No.	2	3227.65	6455.3	Consignee
103	8.7(ii)	2/3/4 aspect signal unit mounted mounted directly on signal post.	No.	20	2187.43	43748.6	Consignee
104	8.8	Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	12	26768.11	321217.32	Consignee subject to procurement from RDSO approved vendors
105	8.9	Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	10	28042.78	280427.8	Consignee subject to procurement from RDSO approved vendors
106	8.11	Supply of Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	Set	3	4297.47	12892.41	Consignee subject to procurement from RDSO approved vendors
107	8.12	Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	No.	3	1779.99	5339.97	Consignee
108	8.13	Supply of Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item)Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	8	3358.53	26868.24	Consignee subject to procurement from RDSO approved vendors
109	8.14	Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	No.	8	1967.77	15742.16	Consignee

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110	8.17	Supply of Junction route indicator unit 3 ways (Without Lenses & Holder) as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	2	24051.47	48102.94	Consignee subject to procurement from RDSO approved vendors
111	8.22	Fixing of Junction type Route Indication 1-Way/2-Way/3-Way/4-Way/5-Way/6-Way on the top of the signal post. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.	No	2	590.67	1181.34	Consignee
112	8.23	Supply of Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv) Alt1 suitable to LED Signal Lighting Unit. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	3	2550.48	7651.44	Consignee subject to procurement from RDSO approved vendors
113	8.25	Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /'A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply of bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /'A' sign/ 'AG' sign unit as per standard practice.Inspection: Consignee Inspection Charges: None.Payment Terms: 100% after commissioning.	NO	2	2325.14	4650.28	Consignee
114	8.27	Supply of Different warning Boards / Calling on Board used for Railway Signalling system as per RDSO Drg. No. SA2380 (Adv). This includes Painting and retro reflective arrangement should be as per SEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply	No.	5	4637.76	23188.8	Consignee
115	8.28	Fixing of Stop Board, Block section limit Board, Shunting Limit Board, goods warning board , Calling on Board with contractors own material. This excludes supply of Stop Board / Block section limit Board / Goods warning board/Calling on board. The work shall be done as per instruction of Rly Engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.	No.	4	334.60	1338.4	Consignee
116	8.29	Supply, Fabrication and fixing of Signal Number Plate(CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.	No.	50	1223.46	61173	Consignee
117	8.30	Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.	No.	10	5087.65	50876.5	Consignee

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118	8.31	Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.	No.	22	9361.50	205953	Consignee
119	8.32	Casting of C.C. Foundation for Position Light Shunt Signal/ Indicator/SPI as per Drg.No.CSTE/NWR/SOR/ 22 in ratio 1:3:6 by using standard size of galvanized holding down/foundation bolts. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor. Note: As per available site conditions, if sizes of foundations are required to be decreased/ increased and same has been approved/agreed by engineer incharge then variation in CC work will be calculated on volumetric basis as per rates of these items. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.	No.	3	6310.26	18930.78	Consignee
120	8.33	Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.	Per CUM	2	4323.85	8647.7	Consignee
121	9.1	Supply of Electrically Operated Lifting Barrier complete set suitable for 110VDC/24V DC (option to be specified in tender specifically of either 110 V DC or 24V DC)supply without hand generator back up & motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting 02 Nos of Barriers of length 09.76 Mtrs. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2 as below 10.1 Following spares shall be supplied alongwith each set (02 nos.) of Electric lifting barrier as per requirement of the purchaser i) GI boom - 1 no. complete. ii) Belt - 1 no. iii) Crank handle - 1 no. iv) Motor Contactor - 1 no. v) Motor protection MCB- 1 no. vi) Push button complete- 2 nos. vii) Limit switch - 3 nos. (1 lever type and 2 top roller type) viii) Fuses used - 2 sets 10.2 Tool kit consisting of standard sizes of wrinch/ spanner and Allen keys should also be supplied with each set (02 nos.) of Electric Lifting barrier. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.	Set	1	433500.01	433500.01	RDSO
122	9.3	Supply of Yellow Retro reflective sheet for LC Boom prismatic grade reflective sheets of size 305 x 290 mm one set consist 18 pieces. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% on Supply	SET	2	1707.15	3414.3	Consignee
123	9.4	Supply of Dual Tone Bell /Buzzer with Flasher arrangement and 20 Watt horn working on 24 V DC/ 110 V AC for warning road users at LC gates. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply	Set.	2	5188.92	10377.84	Consignee

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124	9.5	Supply of (02) nos. electrical lifting barrier booms of 9.76 meter each as per DRG RDSO/S 11600 . The material will be as per RDSO Specn.No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Consignee subject to procurement from RDSO approved supplier. Inspection Charges: None. Payment Terms: 100% after Supply	Set.	1	25128.93	25128.93	Consignee subject to procurement from RDSO approved supplier
125	9.6	Supply of Sliding type mechanical Boom barrier assembly 11 to 12 Meter Long, movement drive mechanism, resetting & supporting stand suitable for Mechanical/Electrical level crossing gate as an emergency arrangements as per Drg. mentioned in the tender document. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply	Set	1	136768.89	136768.89	Consignee
126	9.8	Casting of CC foundations in the ratio of 1:3:6 for sliding boom as per Drg. Minimum 10 Nos of foundation per set shall be cast using standard size holding down bolts & nuts for erection. Item include excavation, ramming, curing and plastering 1:4 cement and sand mixture. Aggregate, cement, sand and holding down bolts & nuts to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation	Per LC Gate	2	29388.02	58776.04	Consignee
127	10.6	Supply of professional LED VDU monitor of display size 42 inch. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	1	57452.56	57452.56	Consignee
128	10.11	Supply of Office Chair makes Godrej CH-7B or similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.	No.	5	2518.62	12593.1	Consignee
129	10.14	Supply of Steel Plain Almirah with 4 adjustable shelvesSize: 1980mm height, 915 mm width and 485 mm depth.Make: Godrej Storewel Plain Large or Similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.	No.	2	16271.42	32542.84	Consignee
130	10.17	Supply of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1 Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest. Each loop shall have capacity of 127 analogue addressable devices in 1 loop, the panel shall have sufficient nos. of programmable relay control for controlling AHU's, pressurisation fans, ventilation fans at fire pump room, monitoring of fire sprinkler & sealed lead acid batteries sufficient for 24 Hours normal working & then capable of operating the system for 24 Hours during Emergency conditions as required. The panel shall have provision of connectivity of BACNET/ MODBUS/ LONWOK/TCP-IP. The panel shall have dedicated RS232 serial port for direct PC or MODEM connection, optional remote printer as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	1	50166.35	50166.35	RDSO
131	10.18	Installation ,Testing and Commissioning of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1 Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest.Inspection: Consignee Inspection Charges: NonePayment Terms: 100% after Commissioning.	No.	1	12541.59	12541.59	Consignee
132	10.19	Supply of Probe type bimetallic Heat Sensor/Fixed cum ROR 90 degree with required module to be communicated with main fire Alarm Panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	2	5367.29	10734.58	RDSO

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133	10.20	Installation ,Testing and Commissioning of Probe type bimetallic Heat Sensor/Fixed cum ROR 90 degree with required module to be communicated with main fire Alarm Panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning	No.	2	1341.82	2683.64	Consignee
134	10.21	Supply of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation and high tolerance to dust, dirt, temperature fluctuations and air current. Detector should have unique address for communication and assigned through panel with mounting base as required with the protection category of IP 40. All items as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	12	2737.45	32849.4	RDSO
135	10.22	Installation, testing and commissioning of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges:Borne by Railways Payment Terms: 100% after commissioning	No.	12	684.36	8212.32	Consignee
136	10.23	Supply of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	2	2865.44	5730.88	RDSO
137	10.24	Installation ,Testing and Commissioning of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning	No.	2	716.36	1432.72	Consignee
138	10.25	Supply of UV/IR Type Flame detector with required module to communicate on main fire alarm panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	2	53605.32	107210.64	RDSO
139	10.26	Installation ,Testing and Commissioning of UV/IR Type Flame detector with required module to communicate on main fire alarm panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning	No.	2	13401.33	26802.66	Consignee
140	10.27	Supply of Linear Heat Sensing (LHS) cable as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	meter	150	599.26	89889.00	RDSO
141	10.28	Installation of Linear Heat sensing (LHS) cable as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.	meter	150	149.82	22473.00	Consignee
142	10.29	Supply of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	1	25189.84	25189.84	RDSO

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143	10.30	Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.	No.	1	6297.46	6297.46	Consignee
144	10.31	Supply of Air Sampling Type detector shall use LASER type. This type of detector shall use piping or tubing distribution network that shall run from the detector to the area as to be protected. It should be supplied with required module & Power supply unit complete as a system with all accessories like pipes, Sampling points etc as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	set	1	115235.80	115235.8	RDSO
145	10.32	Installation ,Testing and Commissioning of Air Sampling Type detector (it shall use LASER type) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning	set	1	28808.95	28808.95	Consignee
146	10.33	Supply of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	1	6435.92	6435.92	RDSO
147	10.34	Installation, testing and commissioning of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.	No.	1	1608.98	1608.98	Consignee
148	10.35	Supply of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	Lot	1	27324.36	27324.36	RDSO
149	10.36	Installation ,Testing and Commissioning of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.	Lot	1	6831.09	6831.09	Consignee
150	10.37	Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30) ° to (50) ° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.	No.	10	5301.70	53017	Consignee
151	11.1	Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.	No.	45	14945.53	672548.85	RITES

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152	11.2	Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.	No.	45	1039.09	46759.05	Consignee
153	11.3	Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.	No.	20	9439.40	188788	Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS
154	11.4	Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.	No.	20	632.78	12655.6	Consignee
	11.8	Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.				0	Consignee
155	11.8(i)	Single (Large) Case Apparatus case / SS location box as per Drg No. CSTE/5074	No.	45	6888.92	310001.4	Consignee
156	11.8(ii)	Half (Medium) Case Apparatus case / SS location box as per Drg No CSTE/5074	No.	20	5259.16	105183.2	Consignee
157	11.9	Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.	No.	20	9563.45	191269	Consignee
158	11.11	Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.	No.	5	4648.00	23240	Consignee
	11.12	Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.					

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159	11.12 (i)	Single Case (Large Case)	No.	45	2344.49	105502.05	Consignee
160	11.12 (ii)	Half Case (Medium Case)	No.	20	684.00	13680	Consignee
161	11.13	Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry.(Supply of all above terminals have been covered separately in Chapter 4 of SOR) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.	No.	10000	12.52	125200	Consignee
162	11.14	Supply of Round head type non deteriorating type low voltage cartridge fuse as per Spec No IRS/S/78/92 with latest amendments 2A/4A/6A capacity. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after supply.	No.	200	59.18	11836	RDSO
163	11.17	Supply of Tic-tac Piano type Switches , 5A (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply	No.	70	29.59	2071.3	Consignee
164	11.18	Supply of two pin Lamp holder Bakelite type for Apparatus Cases (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply	No.	70	44.39	3107.3	Consignee
165	11.20	Fixing of KLCR relays in field in half location boxes if Gate lodge is not provided or at any other location as decided by engineer in charge. Item includes supply and fixing of MS sheet and wiring of KLCR relays, push buttons and LEDs for KLCR circuit. The KLCR relays, push buttons, LEDs will be fixed on a MS sheet of min. 3mm in the half location box. The MS sheet will cover full length and breadth of the half location box and divided in two pieces of approx. 48cm x 46cm and 80cm x 46cm. The first piece to be fitted on top and will contain the KLCR relays, LEDs and push buttons. The second piece to be fitted below the first piece. (Supply of KLCR relays covered in separate item of SOR). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.	No.	5	2193.20	10966	Consignee
166	12.2	Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	Mtr.	50	760.66	38033	Consignee
167	12.3	Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends.Inspection: Consignee Inspection Charges: None.Payment Terms: 100% after installation.	Mtr.	50	190.17	9508.5	Consignee

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168	12.4	Supply of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	Mtr.	50	390.52	19526	Consignee
169	12.5	Fixing of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes installtion of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe along with any masonry work(if required) will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation.	Mtr.	50	97.63	4881.5	Consignee
	12.6	Supplying and placing of one layer of standard size of `B' grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation.				0	Consignee
170	12.6(i)	Lengthwise (up to 2 cables).	RM	2500	14.80	37000	Consignee
171	12.6(ii)	widthwise (more than 2 cables)	RM	3000	31.87	95610	Consignee
172	12.7	Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti- oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia,& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% after Supply	No	100	1798.20	179820	Consignee subject to procurement from RDSO approved vendors

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173	12.8	Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 50 mm outer dia, & 38 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber 'O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vender name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply	No	30	360.78	10823.4	Consignee subject to procurement from RDSO approved vendors
174	12.9	Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia, & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply	Mtr.	1000	383.47	383470	Consignee subject to procurement from RDSO approved vendors
175	12.2	Supply of Half Round RCC pipes & collars of 300 mm outer dia & 250 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	No.	1500	678.31	1017465	Consignee
176	12.2	Supply of Half Round RCC pipes & collars of 150 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	No.	1500	333.46	500190	Consignee
177	12.2	Laying of half round RCC pipe after laying the cables in the trenches. (Cable laying is covered separately) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	RM	6000	21.62	129720	Consignee
178	12.20	Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC-77/2012 revision 3 With latest Amd. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply	NO	5	2148.73	10743.65	RDSO

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179	12.21	Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	NO	5	1157.45	5787.25	Consignee
180	12.22	Horizontal direction drilling/boring without damage of surface road /track using Auger Machine(HDD machine). The bore shall be upto 200 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contractor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	Mtrs.	600	1202.97	721782	Consignee
181	12.23	Horizontal Drilling by using manual pushing method at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge .Pipe Supply is not covered under this item Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	per meter	100	122.74	12274	Consignee
182	12.25	Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply	No.	120	328.68	39441.6	Consignee
183	12.26	Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	No.	120	82.17	9860.4	Consignee
184	12.37	Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of Railway Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	Cu. Mtr	2520	274.28	691185.6	Consignee

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185	12.39	Digging of cable trench 0.3 Mtrs. Deep and 0.3 Mtrs. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches. The sharp edges will be smoothened out in bottom of the chase and will be leveled properly. In hard rocky ground area, cables will be laid normally on layer of shifted earth of 0.05 mtrs thickness previously deposited at bottom of the trench and cables will be covered with layer of sand or shifted earth of 0.1 mtr thickness. In case sharp edges of rocky ground can not be protected from shifted earth then GI/ CI /PVC /DWC/ HDPE pipes will be used, if numbers of cables is small. In case number of cables are large RCC duct will be used. In isolated cases, it can be given smooth surface by using either masonry bricks or cement concrete. A row of bricks shall then be placed length wise on the top and jointed with cement mortar and layer of concrete with cement plaster shall be provided on top of the same. Note: This item in hard rocky area will be operated only where normal depth i.e. 1.2 mtr is not possible and it will be decided by site engineer/unit officer incharge of work. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	Cu. Mtrs.	100	503.04	50304	Consignee
186	12.40	Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	No	2	12506.58	25013.16	Consignee
187	12.41	Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometer post. (Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	RM	14000 0	9.10	1274000	Consignee
188	12.42	Cement concrete work for miscellaneous items in the ratio 1 : 3 : 6 . Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor). Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	Per Cu. Mtr.	5	3628.26	18141.3	Consignee
189	12.43	Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution	Per Cu. Mtr	5	1990.54	9952.7	Consignee
190	13.1	Supply of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	No.	1	158443.22	158443.22	RDSO

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191	13.2	Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. This includes supply of fuse terminal strip for incoming power supply wires. On job training at site will be given by OEM engineer for installation and maintenance of ELD. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.	No.	1	39610.81	39610.81	Consignee
192	13.3	Supply of unit maintenance free earth as per RDSO/E&B/001 dtd.19.09.08 . It consist of following: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (ii) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (iii) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (iv) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (v) Supply of copper lug sleeve for 3/16 cable Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.	Lot	20	17530.73	350614.6	RDSO
193	13.4	Installation of Unit Maintenance Free Earth as supplied under item no. 13.3 of Chapter 13 of SOR. It includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note: The installation of this item shall be carried out by the contractor as per RDSO Specn.No.RDSO/SPN/197/2008 or latest and conforming to RDSO Drg.No.S DO/RDSO/E&B/001 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution and testing.	Set	15	7861.68	117925.2	RDSO

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194	13.7	<p>Provision of Ring Earth for EI system which includes supply of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equi- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest, will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (f) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (h) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve for 3/16 cable Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>	station	1	151992.97	151992.97	Consignee
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195	13.8	<p>Installation, testing and commissioning of Ring Earth for EI system which includes installation of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equipotential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. Installation of one earth pit includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to meet requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of size 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.</p>	station	1	37998.24	37998.24	Consignee
196	13.10	<p>Supply of Digital Multimeter of Fluke 287 Industrial or superior True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second . Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>	No.	1	44045.61	44045.61	Consignee
197	13.11	<p>Supply of Professional AC/DC clamp meter 3 ¾ digit , true RMS measurement, For Measurement of DC/AC currents up to 1000A, Voltage up to 600V, resistance up to 40 MΩ and frequency up to 1 MHz with set of leads & carrying case. Model - DCM 39A or equivalent/ higher make Motwane/Stanley/Fluke/Megger Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>	No.	1	13946.28	13946.28	Consignee
198	13.12	<p>Supply of Handheld Digital Earth Clamp Tester for clamp on earth/ground resistance measurement up to 1000 ohms. Accuracy 0.1 - 0.99 Ω: 1%, 1 - 49 Ω: 1.5% Also measure current leakage up to 20A. No spines required for measurement Model - DECT-2 or equivalent / higher version make Motwane/Stanley/Fluke/Megger. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.</p>	No.	1	84854.46	84854.46	Consignee

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199	13.13	Supply of electronic Cable route tracer/locator with underground cable and pipe locating receiver and cable avoidance tool that provide location of armoured OFC , signaling and telecom , power cable etc. make : C Scope Stanley/3M Dynatel , model: DXL-4 DBG /2273M-iD 30 or superior. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	1	416265.75	416265.75	Consignee
200	13.14	Supply of Road Measuring Cycle, made of Aluminum with 05 digit counter, foldable with bag. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	1	4298.60	4298.6	Consignee
201	13.15	Supply of Digital Cable Insulation Tester for measurement of cable insulation resistance with auto range 0-500 V DC. Motwani or from any reputed make. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	1	8689.42	8689.42	Consignee
202	13.16	Supply of Transmission Measuring Set/Kit along with all accessories as per RDSO Specn.No.IRS: TC- 43/87 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.	No.	1	18663.41	18663.41	Consignee
203	13.17	Supply of Cable Fault Locator to localize the faults of underground cables. Aplab make (Model No.3049) OR C Scope Stanley make(Model TS-90) or superior from any reputed make. It also includes supply of all accessories required to localize faults of underground cables. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.	No.	1	57230.47	57230.47	Consignee
204	13.18	Supply of Digital Earth Resistance Tester for measurement of earth resistance with 3.5 digital LCD, 12.5 mm screen segment and Range -0.5 Ohms to 500 Ohms. WACO or from any repudiated make.Inspection: Consignee Inspection Charges: NonePayment Terms: 100% after Supply.	No.	1	8758.40	8758.4	Consignee
205	14.2	Supply of seal plier as per sample got approved from site engineer in charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply	No.	5	1052.83	5264.15	Consignee
206	14.3	Supply of Vacuum Cleaner, Eureka Forbes or from any reputed make only as per specification given below:- Voltage-230V AC,50Hz, Input Power(IEC)-1000 Watt, Suction of the motor 1700 mm of water column , Airflow-30 liters/second, Dust collection capacity-61(dry), 81(wet), Variable power option-2 Speed, Blower function, Air filtration-2 Stage, Hepa filter, Dust collection type-Washable dust bag, On board accessory storage. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply	No.	1	22344.97	22344.97	Consignee
207	14.4	Supply of Safety lock Godrej or Navtal make size as approved by site engineer. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply	No.	25	111.94	2798.5	Consignee
208	14.5	Supply of hand cuff lock Godrej or Navtal make size as approved by site engineer. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply	No.	50	344.34	17217	Consignee
209	14.6	Supply of Obstruction test piece 3mm/5mm as per sample approved by Engineer in charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply	No.	10	2460.28	24602.8	Consignee
210	14.15	Provision of Power supply arrangement, with contractors own Generating sets , capacity 5 KVA or above as per requirement of Station Signalling load, for testing of Signalling system in the case of irregular Local power supply / under capacity AT,s supply system at station. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution	Per DG Set / day	5	1750.40	8752	Consignee

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211	14.16	Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of signals from nearest line on the signals base. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution	Station	1	36944.91	36944.91	Consignee
212	14.19	Hiring of JCB machine(in good condition) for leveling and dressing ground/ dismantling structures including disposal of debris through dumpers etc with contractors labour , JCB machine , machine operator, fuel etc. The contractor shall arrange for road permit for all the states for operation as per instructions of engineer in charge and vehicle shall not be more than 3 years old . Payment shall be made for actual working hrs at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution	hrs.	10	1090.59	10905.9	Consignee
213	5.40	Installation, wiring, testing and commissioning of Diesel Generator Set 12.5 to 20 KVA, Single Phase, 240V, 1500 RPM, 50 Hz, 30 BHP (minimum) mounted with air cooled double cylinder diesel engine with acoustic enclosure complete silent type DG sets confirming to RDSO Specn.No.IRS(S) 69/86 with latest. (CPCB Noise and Emission Complaint) Kirloskar make engine/alternator. This also includes supply of standard AMF control panel, supply of 12V/120 AH battery set along with battery charger of suitable rating for charging the batteries to ensure self starting arrangement of DG sets. It also includes supply of start/stop buttons, Volt/Ampere/Frequency meters and 63 AMP MCB(minimum). Note: DG set will be procured from OEM or authorized dealer of OEM's with the warranty certificate of minimum 1 year. All masonry work required for installation of DG set will be done by contractor under supervision/instructions issued by site engineer incharge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Commissioning	No.	1	97013.46	97013.46	Consignee
214	14.27	Supply & fixing of Crank Handle Box & SM's key box of size 450 mm x 250 mm x150 mm and made of 12 mm thick teakwood with a glass front, lock and sealing arrangement. All material like lock, teakwood, handles, hinges, glass sheet of 3 mm thick will be supplied by the contractor. Box will be polished and description will be written as per instructions of Engineer in charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100 % after Execution	No.	5	1830.92	9154.6	Consignee

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215	14.28	Supply & fixing of KLCR boxes & fixing of KLCR Relays in ASM office. It includes supply of any minor bracket, nuts, bolts, teakwood, sun mica, lock, drilling hole etc as directed by engineer at site. It also includes supply and wiring of push buttons along with LEDs for KLCR circuit. Rly will supply only KLCR relays and contractor has to wire KLCR relays. It includes supply of all the related wiring material. Inspection: Consignee Inspection Charges: None Payment Terms: 100 % after Execution	No.	5	1722.47	8612.35	Consignee
216	15.1	Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/ Systemax / Panduit/ Tyco/ Krone/ AMP. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	Mtr.	305	18.74	5715.7	Consignee
217	15.2	Supply of 4/2 wire combined Portable Light Weight Emergency control telephones of metal body with 6-pin plug as per IRS-TC-75/99 (Amnd 4) or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	No.	2	3316.73	6633.46	Consignee
218	15.3	Supply of KRONE Punching tool, Krone or any reputed make only. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	No.	2	1401.40	2802.8	Consignee
219	15.5	Supply of patch chord cable (10 meter long) with FC/PC connectors compatible with SDH equipments as per TEC Specn.No.GR/OFJ-02/01 May 2004 with latest Amendment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	No.	20	947.11	18942.2	Consignee
220	15.6	Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	No.	2	12752.20	25504.4	Consignee
221	15.7	Supply of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM- 1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will supply all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply	No.	1	193957.98	193957.98	Consignee subject to procurement from RDSO approved vendors

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222	15.8	Installation, wiring, testing & commissioning of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will install all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.	No.	1	48489.50	48489.5	Consignee
223	15.9	Supply of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: (i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply	No.	1	253550.16	253550.16	Consignee subject to procurement from RDSO approved vendors

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224	15.10	Installation, wiring, testing and commissioning of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.	No.	1	63387.54	63387.54	Consignee
225	15.11	Supply of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes supply of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	km.	1	48313.26	48313.26	Consignee subject to procurement from RDSO approved vendors
226	15.12	Laying of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes installation of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	km.	1	12078.31	12078.31	Consignee
227	15.13	Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per instructions of engineer incharge at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	km.	1	10804.77	10804.77	Consignee
228	15.14	Construction of brick chamber of optical fibre cable straight through joint as per Drg. No. CSTE/NWR/SOR/23. It also includes supply and provision of all the material required for this item like bricks, sand, cement etc. The cement and sand should be in ratio 1:6. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	No.	2	5263.87	10527.74	Consignee

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229	15.20	Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 25 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 50 Amps, automatic switching between the modules as per RDSO Spec No. RDSO/SPN/TC/23/1999 version 4 or latest along with two potential free contacts. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply	No.	1	127514.14	127514.14	Consignee subject to procurement from RDSO approved vendors
230	15.23	Supply of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.	No.	1	77027.97	77027.97	RDSO
231	15.24	Installation, wiring, testing & commissioning of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	No.	1	19256.99	19256.99	Consignee
232	15.26	Supply of Universal 2/4 wire way station control Telephone with PSU as per RDSO spec. no. IRS: TC:82: 2005) (with Amd. 1 or latest) Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.	No.	2	20260.32	40520.64	RDSO
233	15.30	Video recording of trenching. It includes the man power and all required arrangement for video recording at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.	km.	6	305.00	1830	Consignee
234	15.37	Supply of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	Nos	10	1232.67	12326.7	Consignee
235	15.38	Fixing and wiring of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.	Nos	10	308.17	3081.7	Consignee
236	15.39	Supply of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.	Nos	10	1963.08	19630.8	Consignee
237	15.40	Fixing and wiring of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.	Nos	10	490.77	4907.7	Consignee
238	15.54	Supply of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.	Nos	1	29373.13	29373.13	Consignee
239	15.55	Installation and complete indoor wiring of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.	Nos	1	7343.28	7343.28	Consignee

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240	15.56	Supply of integrated Access Multiplexer 4U height/19" Rack mountable with 4 DTE (1+1) protection E1 interfaces & V.21/V.23 Modules supporting 8 Interface of (2W/4W) in one module and one Telnet port balance 2 slots empty; unit to support both AC/DC power supply; Cable to be provided for one no for E&M interface; DC to AC adapter- 1 Nos; Make Fabio 4C/ 4E1/ DC Team Engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.	Nos	1	53345.24	53345.24	Consignee
241	15.57	Installation of integrated Access Multiplexer 4U height/19" Rack mountable with 4 DTE (1+1) protection E1 interfaces & V.21/V.23 Modules supporting 8 Interface of (2W/4W) in one module and one Telnet port balance 2 slots empty; unit to support both AC/DC power supply; Cable to be provided for one no for E&M interface; DC to AC adapter- 1 Nos; Make Fabio 4C/ 4E1/ DC Team Engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.	LS	1	9048.21	9048.21	Consignee
242	15.63	Supply of Electronic LC gate telephone system in 1+6 configuration with inbuilt voice recorder . It includes supply of 'surge protection and line connection unit /circuit' and centralised power supply system with battery as per RDSO Spec no. RDSO/SPN/TC/51/2011 Revision 3.0 amended 1.0 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply	No.	1	65503.57	65503.57	Consignee subject to procurement from RDSO approved vendors
243	15.68	Supply and provision of thermo-shrink splice filling jelly jointing kit as per RDSO Specn.No.RDSO/SPN/TC/57 2015 (Rev.1)Amnd.1 or latest suitable for PIJF cable for straight throughjoints. It includes supply of all the accessories as recommended by RDSO. Inspection: ConsigneeInspection Charges: None.Payment Terms: 100% after Supply.	No.	3	1548.91	4646.73	Consignee
244	15.69	Painting of emergency post and sockets in sections as per instructions of the site engineer in charge. This shall include all material, labour and transportation required for painting of emergency post and sockets in section. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.	No.	15	248.70	3730.5	Consignee
245	15.72	Shifting and installation of control and other telecom equipments like control phone, magneto phone, auto phone, VHF sets, VF Repeaters etc from old station building to new station building as per instructions of site engineer. All the material required for fixing and installation will be supplied by the contractor Inspection: Consignee Inspection Charges: None.\ Payment Terms: 100% after execution.	Station	1	8912.22	8912.22	Consignee
246	15.103	Supply of Sine Wave output Voltage inverter of 2.0KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640 with trolley stand. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.	No.	1.00	31750.25	31750.25	Consignee
Total of Schedule-"A"						39263428.66	
Schedule-"B" (NS-Items)							

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1	NS	Supply of modular power supply arrangement for VDU (42" to 85") and embedded PC with input and output redundancy arrangement and hot plug-able modules having voltage & load current digital display on each module. Each set consisting of: - 1.Isolated inverters (master/slave with auto changeover) -2 Nos. input: 110VDC,output: 110 VAC, 500VA (as per RDSOTAN No. STS/E/TAN/3012 Version 3.0Dated.03.11.22) 2.Isolated DC-Converters - 02 Nos. connected in parallel with built in O-ring diode, active current sharing as per RDSO/SPN/165/2023 version 4.0 or latest (input: 110VDC, output:24VDC/10A) 3.Input (redundancy) O-ring diode module with two input sources and one output supply along with potential free contacts, alarm and acknowledgment switch. 4. 3Ustainless steel rack with back panel mother board and front panel power connectors, power cord for VDU panel. Technical detail is mentioned inAnnexure-TS-1(B). Make- Gallant or Similar. Inspection: RITES, Inspection charges: Borne by Railways, Paymentterms:100% after supply	SET	3	159975.55	479926.65	RITES
2	NS	Installation, Wiring, Testing and Commissioning of modular power supply arrangement for VDU (42" to85") as per RDSO TAN No.STS/E/TAN/3012 Version 3.0Dated.03.11.22 item includes supply and fixing of suitable mount in arrangement. Inspection: Consignee, Inspection charges: None ,Paymentterms:100% after commissioning	SET	3	18282.92	54848.76	Consignee
3	NS	Supply of the various spares card related to EI to suit Item no-1.2 of NWR SOR S&T/2020 (10% of spare which include minimum 01cards)	Lot	1	1607809.26	1607809.26	RDSO
4	NS	Supply of Dual RS232 to E1 Converter card suitable to insert in the data logger euro rack for interlinking data loggers installed at various stations. One number per data logger is required which converts voice to E1 channel at stations Inspection Charges: Nil. Payment Terms: 100% after supply	Nos.	1	31092.91	31092.91	RDSO
5	NS	Fabrication and supply of CT Rack Moveable Board. The CT Rack moveable board should have arectanguloid structure consist of four nos. of white coloured rectangular faces of adequate size to accommodate terminal detail writing of one cable termination rack on eachface. The CTR board should be fabricated from wood/metal frame, plywood, sun mica and mounted on arectanguloid stand by mean of the ball bearing pivot to facilitate the rotation of upper rectanguloid structure freely. The bottom rectanguloid stand should be fitted with rollers for smooth movement on floor. Drawing, size and material will be as per instructions of Engineer in-charge of the work. Inspection: Consignee. Inspection charges: None. Payment terms: 100% after supply	Nos.	1	57410.64	57410.64	Consignee
6	NS	Supply & installation of Copper Tape25x3mm for perimeter bonding in S&T rooms as per RDSO Drawing no.SDO/RDSO/E&B/001 of latest. it includes supply of insulators ,fasteners clamps etc. (To be used in Relay Room, IPS room and Panel Room for BRC and to be connected to Ring earth.).Inspection: Consignee. Inspection charges: None. Payment terms: 100% after installation.	Meter	100	300.50	30050	Consignee

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7	NS	Supply, Fixing and Wiring of DISTRIBUTION BOARD (MCB BOX), 12WAY, METAL DOOR (Double Door)/TYPEOF MAKE- HAVELS (Model 'Metallic DB')/L&T (Model IP-43, Metal Door)/SIEMENS (Model Double Door SPN DB -IP-42 .The distribution box should be fitted with 06 numbers of Double Pole MCBs (2P/240V or 415VAC) of current rating preferably 2Amp (or rating decided by suggested by site engineer) of HAVELS/L&T/SIEMENS make. (This item to be used for distribution of 230V AC supply from DG/Mains change over to different functions like -For Data logger 230 V operation supply, For 230 V input for Analog sensors of Data logger, For Input of VHF and other communication equipment of SM Room etc. or for other purposes as decided by site engineer). Inspection: Consignee. Inspection charges: None. Payment terms: 100% after installation	Set	1	9901.11	9901.11	Consignee
8	NS	Supply and Installation of RO membrane based De-ionizer plant to produce Battery water of TDS less than 5 ppm irrespective of the quality of raw water, pH Value:- 6.5 to 7.2, specific electric conductivity :- 0 to 5 micro mhos/cm at 25 Degree Celsius, output capacity should be 12-15 Ltr purified water/Hour. Plant should have suitable fixture/wall mounting arrangement with external PVC storage tank of capacity 200 Ltr, Plant should have on board TDS meter, Indication of On/Off, Solenoid/Flow switch fitted to avoid dry run of the machine, Weight sensor/Float switch installed on storage tank to avoid overflowing of the tank. The item includes supply of one set of the spare filters/membranes in addition to the fitted filters-membrane with the machine (spare should be of similar spec/type as used in the machine). Plant should work on 230V AC input (Internally works on 24V DC) and should not require any type of chemical re- charging except filters and membranes. The life of filter/membrane should not last before production of minimum 12000 Ltr of battery water. Item includes supply of all the accessories required for installation of the plant like fasteners, connecting pipes (of length up to 2 Mtr), cable from wall socket to the machine (of length up to 2 Mtr), couplers/tap required to connect it from water tap/outlet, PVC pipe up to storage tank (of length up to 2 Mtr). The quality test certificate of produced water must be submitted by the supplier from any repudiated test laboratory. The OEM should give on-site warranty of one year. Inspection: Consignee. Inspection Charges: None. Payment Terms: 100% after installation.	Set	1	64429.22	64429.22	Consignee
9	NS	Supply and fixing of insulation Rubber mat for electrical purpose 2.5mm thick size 2m x 1 m suitable for 3.3 KV to 11KV (Class- B) confirming to IS 15652-2006.(Unit-Per Square Meter) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after fixing	Sqm	25	1658.02	41450.5	Consignee
10	NS	Supply, fabrication, installation and fixing of panel operator console with arrangement to fix up to 55"/65"/75" VDU's - 2Nos. Reset boxes, and others gadgets. This shall be made of knotless than 18mm thick plywood/novopan or better materials with storage facility of approved colors with contractors' materials, lead, lift and manpower as per the instructions of engineer in charge and as per tentative drawing enclosed in Annexure-TS-10. One number of revolving chair (Godrej Make) Model PCH7001 also to be supplied with the console. Inspection: Consignee. Inspection Charges: None. Payment-100% after supply and installation.	Set	1	284356.92	284356.92	Consignee

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11	NS	Hiring of fully furnished Camp Office at site (of Size 2 BHK) for Railway S&T officials for monitoring/ supervision of work. The contractor will provide the storage safe for protection of Important tender related document i.e. M.B./Inspection certificates, drawings ,T&P items etc .The rental cost includes electricity charges, water charges, cost of internet connection (Wifi) & cost of regular cleaning of camp office. The location of the camp office will be decided by the engineer in charge at any place/city/town near the section(probably at Churu Or Ratangarh).Inspection: Consignee, Inspection Charges: None, Payment Terms: 100%after completion of each month cycle	Months	12	15814.23	189770.76	Consignee
12	NS	Supply of led indication system with indication, buzzer and acknowledgment button up to 6 lin station with interface facility to existing data logger and modification of Data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection by RITES.	Nos.	1	55398.85	55398.85	RITES
13	NS	Testing and commissioning of led indication system with indication, buzzer and acknowledgment button up to 6 line station with interface facility to existing data logger and modification of Data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection by Consignee	Nos.	1	7811.05	7811.05	Consignee
14	NS	Supply of heavy duty Heat Gun of minimum 2000 Watt with LCD display (for temperature) for testing of heat sensors in S&T installation. Make BOSCH , DEWALT or similar professional quality brand. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply	Nos.	2	2861.93	5723.86	Consignee
15	NS	Supply of Smoke Detector Tester Spray, Aerol 9980 or similar for testing of smoke detectors. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply	Nos.	5	1043.86	5219.3	Consignee
16	NS	Supply of High standing table having iron bar legs, wooden/ plywood top, powder coated metal work and polished wooden work(height 40 to 48 inch, length 60 inch, width 30 inch). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply	Nos.	1	7461.05	7461.05	Consignee
17	NS	Supply and installation of Earth Electrode including MS flat for Signalling Equipment as lever frames, apparatus cases, signal, Relay Rack, Block Instrument etc. (Supply and fixing of each earth electrode as per drawing no.RE/S&T/DRG/Tender/SK/398/94forapparatus cases, signal post and other equipment as per instruction unearthing of S&T equipment. Laying of earth lead mild steel flat of size 35 mmx6mm and fixing of lead M.S. flat to earth electrode and lever frame, signal post and apparatus cases as per drg.no. CORE/S&T/ALD/SK/591/2008,592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment And providing cement enclosure for earth electrode as per drawing no.RE/S&T/Sig/Tender/SK/13/85Alt.- 'A').The detail specification of work is enclosed as Annexure-TS-14Inspection: RITES. Inspection Charges: Borne by Railway. PaymentTerms:100% after installation	Nos.	60	6038.36	362301.6	RITES
18	NS	Supply of PTCC Fuse 16-V(GP16-300) or 30V(GP30-185) as decided by Railway. Inspection: Consignee Inspection Charges: None, Payment Terms:100% after supply.	Nos.	200	9.14	1828	Consignee

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19	NS	Supply of mechanical tool kit consist of : (a) Hammer hand medium(500 gms) =01 Nos, (b) Goti Handle 12"socket = 01 Nos, (c) Socket in goti 19mm= 01 Nos, (d) Socket in goti 30 mm=01 Nos, (e) Socket in goti16 mm= 01 Nos,(f) Socket in goti 13 mm = 01Nos, (g)Socket in goti 10 mm = 01 Nos, (h) Wire cutter 6" = 01 Nos, (i) Nose plier 6" = 01Nos, (j) Screw driver 6" = 01 Nos, (k) Plier electric 6" = 01 Nos , (l) Screw driver kit(6PC) = 01 Nos, (m) Spanner D/E(30x32)= 01Nos, (n) Spanner D/E(17x19)= 01 Nos, (o) Spanner D/E(32x36) = 01Nos, (p) Spanner S/E (45)=01 Nos , (q) Adjustable Key (12-300mm)=01 Nos, (r) Screw Driver 16"= 01Nos, (s)Spanner S/E 24 mm = 01 Nos, (t) Tin Cutter = 01 Nos, (u) Cable Insulation Cutter = 01 Nos, (v) Cable Insulation Stripper =01 Nos, (w) Aleen Key Set = 01Nos, (x) Tuner screw drivers = 01 Nos, (y)Measuring Tape(Non - Metallic, 5 meters)= 01 Nos. (z) Heavy Duty, Waterproof, Durable bag for keeping above tools. (AA)Safety gloves for maintenance use in RE Area. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.	Set	5	4630.32	23151.6	Consignee
20	NS	Supply of 6dB GP Antenna VHF Band(136-174 MHz) with RF cable (min. length of 30 mtr) with both end Connectors (RG 213 Co-axial Cable)suitable for 25 W VHF set.(Kenwood, HYT, Motorola or similar) Inspection: RITES, Inspection Charges: Borne by Railway, Payment Terms:100% after Supply	Set	1	6367.03	6367.03	RITES
21	NS	Fixing of GP antenna for 25 W VHF on the roof of ASM office, connection of the Antenna with coaxial cable, supply and fixing of wooden stand on the wall of ASM room for VHF set, SMPS at the station It includes supply of the12V/100 AH battery, GI pipe of 50mmdia of suitable length (3 m or less),Wooden stand wall mounting size 18" x12 " for VHF, SMPS and battery, PVC conduit pipe 25 mm of required length. it excludes supply of VHF set, Antenna, coaxial cable, SMPS. Inspection: Consignee Inspection Charges: NonePaymentTerms:100% after installation	Set	1	8755.46	8755.46	Consignee
22	NS	Supply, installation and wiring of 24 pair C.T. Box fitted with WAGO make or similar Disconnect type Terminal blocks (Knife type cage clamp technology [Screw-less] with spring loaded contact) having disconnection and reconnection facility, WAGO terminal should suitable for termination of cable from 0.4mm to 0.9mm dia. PIJF/Quad cable [Indoor type]. Inspection: Consignee. Inspection Charges: None. Payment Terms:70% after supply and remaining 30% after installation/wiring (if installed).	Nos.	2	3665.05	7330.1	Consignee
23	NS	Supply of magneto telephone desk type (push button) spec No. TC-79/2000 with Amendment No. 3 or latest. Inspection: Consignee (material must be procured from RDSO approved sources only) Inspection Charges: None, Payment Terms:100%after installation.	Nos.	5	2351.14	11755.7	Consignee
24	NS	Supply of straight joint closer and splicing of optical fibre (2X48) as per RDSO Spec. TC-68/2020 Rev. 2 or latest. This includes supply of straight joint closer (SJC) complete with all accessories with latest amendments and splicing of optical fibre cables (2X48Fibers)and testing. Inspection: RITES Inspection Charges: Borne by Railway.PaymentTerms:100% after testing.	Nos.	5	17295.71	86478.55	RITES

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25	NS	Supply, installation, complete splicing & testing of rack mounted sliding type with Optical fiber cable termination box SC-APC connector for 48 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/APC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/APC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March-99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: RITES Inspection Charges: Borne by Railway. Payment Terms: 70% after supply and remaining 30% after splicing and testing.	Nos.	5	21770.24	108851.2	RITES
26	NS	Provision of Geographic Information System (GIS) Mapping of all S&T cable trenches & RCC Ducts (Main and Tail Cables) by collecting and storing positional data at every 5 meter interval with reference to existing track and proposed signaling gears like Location boxes, Signals, Points, Glued Joints, LC gates and other important fixed structures with an accuracy of 23 cm. The GIS mapping includes collection of positional data of the objects using a GNSS RTK enabled device and processing the data on suitable software and map it for preparation of trench layout and exporting data on excel format. It includes exporting and processing of data on google earth and other suitable applications in reference of tracks and track kilo meter chain age. Item covers preparation of trenching plan on CAD format on A3 size paper by importing the data collected from site through GIS mapping device. The plan shall be prepared with suitable scale to showing minute detail of depth of trench and ground level at every five-meter interval, Position of all S&T gears. The data collection shall be done before refilling of trench and shall be processed. After approval of filed units the trench plan will be submitted in 8 Nos of colour copies. Trench data shall be used for preparation of standard cable route plan, preparation of cable route plan is covered separately in another item of schedule. Note:- The GIS mapping shall be done by contractor using their own devices , software and man power. The accuracy of mapped point (saved position of object) must be in range of 2-3 cm (the deviation shall not be permitted beyond 3 cm) Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after after execution. (Measurement Unit: Kilo metre length of mapped trench/RCC duct in Kilo Meters)	Km	6	4290.26	25741.56	Consignee
27	NS	Supply, installation and wiring of 10 pair C.T. Box fitted with WAGO make or similar Disconnect type Terminal blocks (Knife type cage clamp technology [Screw-less] with spring loaded contact) having disconnection and reconnection facility, WAGO terminal should suitable for termination of cable from 0.4mm to 0.9mm dia. PIJF/Quad cable [Indoor type]. Inspection: Consignee. Inspection Charges: None. Payment Terms:70% after supply and remaining 30% after installation/wiring (if installed)	Nos.	2	2205.61	4411.22	Consignee

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28	NS	Supply of Digital AC-DC clamp meter capable of measuring current from 0.1A to 200 A and Voltage up to 600 V with jaw opening size 18 mm (or +/- 2 mm). Make Fluke-362 or Similar from KUSAM-MECO/MATRIX or better Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after after supply.	Nos.	5	5421.02	27105.1	Consignee
29	NS	Supply of portable GIS mapping device LT800AH tablet or similar with Antenna, Charger and complete Accessories with warranty of minimum 3 years Technical specifications are attached in Annexure- TS-11 (B). Inspection: RITES, Inspection Charges: Borne by Railway. Payment Terms:100% after supply.	Set	1	359709.17	359709.17	RITES
30	NS	Printing, Supply and fixing of signboard with printing on Sun board (of thickness minimum 4mm) having colour print of various drawings/photographs/documents like Power board diagram, Relay index chart, Station Rule Diagram, FTOT Particulars etc. as decided by the Railway). Item includes framing of the board with suitable mounting arrangement and fixing on the wall as per instruction of site engineer. Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after fixing.	Sq feet	30	384.08	11522.4	Consignee
31	NS	Supply of various type of printed and bounded booklets/registers/SMC card required for use of maintenance record of the S&T assets. It includes maintenance registers for SMC 1 to 12, Battery maintenance record, cable testing record, earth testing record, counter record, key transaction record etc. for station record and Spot Maintenance Cards for axle counter, point machine, track circuit, Signal, LC Gate etc. to keep in the locations boxes/gears. Each booklet/register must have proper binding with proper hardcover /Thick paper cover. Paper size, print matter, paper thickness and cover quality will be approved by the engineer in charges per Railway practice. Approximate number of pages per each booklet will be 100 Pages (Measurement Unit: Number= per booklet). Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after Supply.	Nos.	100	186.48	18648	Consignee
32	NS	Termination of main, tail, Signalling and power cables on terminal/ fuse blocks in apparatus cases, cable termination boxes and in gate Lodges excluding cable termination rack at relay room. The work includes fixing offal cables by teakwood clamp on teakwood base plank, varnishing all teakwood items, fixing of terminals/fuse blocks on the terminal board/Phenolic sheet, drilling of necessary holes, termination of cables, wiring, earthing of armour of all cables on copper bus bar of 25mm X 3 mm of suitable length to fix it from left wall to right wall of apparatus case, identification of cables using aluminum tags with letters punched neatly, as per approved circuit diagram and cable plan, painting/printing of particulars on sleeves and also on the inner side of the doors of apparatus cases. After terminations are over, the cable entry space/openings of apparatus case foundation shall be closed with brick work; cement plastered, the inter-space filled with river sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of Phenolic Sheet, Terminals and Fuse blocks are not covered in this schedule).[Cement, teakwood made cable clamp 50mm x 50mm, base planks 100mm x 25mm, PVC/Nylon sleeves, varnish, paints, slotted angles, bolts, nuts and washers, Aluminum cable tags, sealing compound, country bricks, copper bus bars for armour earthing, brass screwdriver sand and other miscellaneous materials shall be supplied by the Contractor]. Note :- Termination/Working work should be done in accordance with the policy circulated by Rly Board vide Letter No.2023/Sig/17-SigEquip/Maintenance/Part	Per unit	8000	122.47	979760	Consignee

		<p>dtd06.11.2023 (as reproduced below)1.Conductor/wire labeling: Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core /Signaling function in Black with Yellow background) to be provided on each cable conductor., 2.Description details of Terminals : The Row of Screw less Disconnect Terminal I ARA Terminal shall be serially numbered as A, B, C,D from top and in each row, terminals shall also be serially numbered from left to right starting from 1., 3.The Cable Termination Details of Location Box (Location Termination Particulars) shall be prepared in AutoCAD/ any suitable software. One copy of Cable Termination details shall be fixed in the respective location box duly printed ona sun board of A3 Size or large (fixed in a S.S./Aluminum frame with acrylic/transparent front cover mounted on apparatus case door) and another laminated copy in plastic cover shall also be kept in the location box.4.After every cable terminated in arow, there should be a minimum gap equivalent to 1-2 ARA terminal or minimum 06 Screw less Disconnect Terminals 5.Inside the Location Box, minimum clearance of bottom most terminal row shall be around 150mmfrom base of location box. The Centre to Centre Distance between two rows of Screw less Disconnect Terminal/ARA Terminal shall be around 18cm to20cm or suitable gap between rows to be kept for cable entry holes and description writings 6.Location Box shall be numbered from its front sides well as Back side/side walls with black letter on yellow/ white background. 7. The Cables terminated on Location Box shall be identified by punched labels / Cable Identification Tag tied on each end of the cable for correct identification. . Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after execution.{Measurement Unit: Per Unit= Per Terminal or Per Fuse Block}</p>					
33	NS	<p>Termination of Main, Tail, Signalling and power cables and internal wiring on terminal/ fuse blocks in cable termination Rack at relay room. The work includes fixing of all cables by teakwood clamp on teakwood base plank, fixing of phenolic sheet/ladder for terminal board, varnishing all teakwood items, fixing of terminals/fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminum tags with letters punched neatly, as preapproved circuit diagram and cable plan, printing of particulars on sleeves. After terminations are over, cable entryat the bottom shall be closed with cement plastered, the inter-space filled with sand up to base level and the bottom surface shall be sealed with sealing compound. Cable armour to be soldered to earth. (Supply of cable termination racks, Terminals, Fuse blocks is not included in this schedule).[All bolts and nuts with washers, Phenolic laminated Sheet, grade P3 of size 10 mm Thick, cement, sand, stone jelly, copper bus bars for armour earthing, brass screw, Teak wood base/MS ladder, insulators, PVC/Nylon sleeves, CT Rack detail printed on vinyl/flex duly fixed on S.S. frame of size prescribed by engineer in charge, varnish, paints, Aluminum cable tags, sealing compound and all other miscellaneous materials required forthe work shall be supplied by the contractor] Note :- Termination/Writing work should be done in accordance with the policy circulated by Rly Board vide Letter No. 2023/Sig/17-Sigequip/Maintenance/Part dtd06.11.2023 (as reproduced below)1.Conductor/wire labeling: Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core /Signaling function in Black with Yellow background) to be provided on each cable conductor.,</p>	Per unit	1000	117.52	117520	Consignee

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		2.Description details of Terminals : The Row of Screw less Disconnect Terminal I ARA Terminal shall be serially numbered as A, B, C,D from top and in each row, terminals shall also be serially numbered from left to right starting from 1., 3.The Centre to Centre Distance between two rows of crewless Disconnect Terminal / ARA Terminal shall be around 18cm to20cm. After every cable terminated ina row, there should be a minimum gap equivalent to 1 ARA terminal or 02spacers/ dummy Screw less Disconnect Terminals, 4.The Cables terminated on CT rack shall be identified by punched labels/ Cable Identification Tag tied on each end of the cable for correct identification., 5.Line wise and if necessary, function wise cables shall be provided as per Para 15.1.2.(c) of IRSEM, 6.Minimum clearance of bottom most terminal in CT rack shall be normally 300mm from ground, 7.CTRacks Particulars (i.e., Function wiring and termination details) may be made using Vinyl Printing or Flex Printing on300 GSM PVC banner roll of suitable size framed or any other means and shall be fixed on. wall or CT Rack moveable board through suitable metallic frame (CT Board) adjacent to CT rack. Inspection: Consignee, Inspection Charges: None, PaymentTerms:100% after execution.{Measurement Unit: Per Unit= Per Terminal or Per Fuse Block}					
34	NS	Supply, Transportation & Testing of VHF based secured communication equipment consisting of microcontroller based equipment with built in Voice/Data storage facilities. 25 W VHF radio with talking instrument, power supply (12V DC/15Amp) sealed maintenance free battery bank 12V/120AH, Omni directional stacked dipole antenna, 50 mtr length RG-217 cable, including portable programming and data backup terminal . Make -AE Tele link as per RDSO specification no. RDSO/SPN/TC/73/2008 with latest amendments.	Nos.	1	324198.35	324198.35	
35	NS	Supply of LASER Distance meter capable of measuring distance up to range 150 M with accuracy upto 10 mm, Make- BOSCH Model GLM 150 C or similar product from Fluke , Stanley, Dewalt etc. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.	Nos.	1	13175.80	13175.8	Consignee
36	NS	Supply and fixing of earth pipe in hard and rocky area. Provision (SITC) of earthing protection arrangement rocky area by using boring machine/ vibrator machine drilling 06" dia hole 03 meter deep) as advised by the site in charge of Railway including supply of earth GI pipe /earth plate. Earth connection will be done by MS flat of size 40x05mm. All the material like charcoal, salt, nuts, bolts etc. to be supplied by the contractor and provision of earthing from earth electrode to relay room, A/cases, signal unit, station, LC gate pedestal, battery racks, relay racks CTR, various S&T equipments, power panel, control panel, cable earth, block earth, control earth, signal screen etc. as the case may be including fixing and soldering of copper lugs at both end of the wire as well as ensuring that earth resistance value is within prescribed limits. This includes transportation of material, painting, Lettering etc. Consignee Inspection. Payment terms mentioned as per in Original CA.	Nos.	10	11849.04	118490.4	Consignee
37	NS	Supply of Electric Track drilling machine consisting of heavy duty drill machine capable to work on 110 V AC, 50 HZ supply, capacity up to 22mmmetal drilling, with suitable mounting bracket/stand. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after after supply.	Set	2	20814.91	41629.82	Consignee

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38	NS	High density polyethylene pipes(HDPE) of 110mm outer Dia,10mm wall thickness along with one coupler for every 6 meters as per specification no IS 4984:2016 with latest amendments (Inspection: RITES)	Meter	500	395.10	197550	RITES
39	NS	Relay AC Immune Plug in type style QNNA1 DC Twin DC Neutral line relay 24-volt 6F/2B for LH and RH front and back contact metal to carbon complete with plug board retaining clip and connector confirming to BRS 960A, IRS:S:34, S:60 and IRS S-23. the interlocking pin code CDEHX	No.	100	4956.00	495600	RDSO
40	NS	Relay AC Immune Plug in type style QNNA1 DC Twin DC Neutral line relay 24-volt 4F/4B for LH and RH front and back contact metal to carbon complete with plug board retaining clip and connector confirming to BRS 960A, IRS:S:34, S:60 and IRS S-23. the interlocking pin code ACDHJ	No.	100	4956.00	495600	RDSO
	NS	IPMPLS					
41	NS	Design, Fabrication & Supply of rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 160 Gbps, unit to support L2VPN, L3 VPN, MPLS-TE, unit to be capable to support 8x10Gbe, 48x1GbE, 64xE1 ,12XSTM 1 ports or 2x8 port WD support multiple routing functions such as OSPF, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back 7 up. The router should have console and SNMP interface, FAN Module, Redundant control card modules and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 8x10Gbe interface modules from day one. The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver1.0 or latest for the LSR Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.	Nos.	1	612678.35 03	612678.35	RDSO/RITES
42	NS	Installation of IP MPLS Router and switches, with power distribution panel and all accessories in the Rack (19" 42 U), DDF, Aluminum runway ladder, patch cord etc and their testing and commissioning. This includes termination of all E1's on DDF, connection of pigtails, optical patch cords and 48 V bus to the IPMPLS equipment including supply of wires and connectors. It also includes proper mounting of rack, provision of Aluminum runway ladder, casing and capping and conduit pipe as per requirement at each station, other materials from stores supplied by Railways for installation. (Conduit pipe/ casing and capping, aluminum runway ladder and all other miscellaneous materials should be supplied by the contractor). Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after installation.	Nos.	1	18975.15	18975.15	Consignee
43	NS	Supply and installation of 16 port E1 Card along with Patch panel/Krone Module and wiring for Routers with all accessories etc. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after execution	Nos.	1	95585.575 77	95585.58	Consignee: subject to procurement from RDSO approved vendors

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44	NS	Supply of 4 port x10G SFP (optical) module card suitable for the IP MPLS router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply	Nos.	2	23316.92	46633.84	Consignee: subject to procurement from RDSO approved vendors
45	NS	Supply 8 port x 1Gbe (4 no. of optical port and 4 no electrical port) module card suitable for IP MPLS Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.	Nos.	2	24709.077	49418.15	Consignee: subject to procurement from RDSO approved vendors
46	NS	Integration, testing and final commissioning of all IP-MPLS equipments, switches etc. at each station for all the equipment confirming with the approve system design including end to end testing for realization of optical fiber system. This also includes supply of all AS made documents for the entire section (six copy) plus technical, maintenance and installation manual for IPMPLS (LER & LSR), NMS, Switches, Charger and Power Supply Unit. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.	Nos.	1	132447.45	132447.45	Consignee
47	NS	Supply of SFP (1310nm) 1.25 GBPS as per the site requirement for electrical 10/100/1000 MBPS support as per site condition. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply	Nos.	10	9043.53	90435.34	Consignee: subject to procurement from RDSO approved vendors
48	NS	Supply of 53 Piece Telecommunication Tool Set consists of (1) 1Pc Standard Digital Multi Meter. (2) 4Pc Phillips Screwdrivers: #1x75, #1x150, #2x45, #2x100 mm. (3) 4Pc Slotted Screwdrivers: 3x75mm, 3X150, 6.5x45, 6.5x100 mm. (4) 1Pc Tape - 3m. 1Pc Utility Knife. (5) 1Pc Diagonal Pliers 6". (6) 1Pc Linesman Pliers 8". (7) 1Pc Mini hacksaw. (8) 1Pc Adjustable Wrench 10". (9) 1Pc Wire Stripper 9". (10) 10Pc Hex Key set 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10 min. (11) 1Pc Spinner Handle. (12) 1Pc 1/4" Drive Adapter. (13) 13Pc 1/4" Drive 6 Point Sockets : 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm. (14) 6Pc Precision Screwdriver Set OPT, 1PT, 1.4PT, 1.8mm, 2.3mm, 3.0mm. (15) 1Pc Soldering iron. (16) 1Pc Solder. (17) 1Pc Disordering Pump. (18) 1Pc Digital Tester. (19) 1Pc Tweezers. (20) 1Pc Blow Mould Case. Make & model Stanley SHT89883-812 or similar. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.	Set	1	17415.60	17415.60	Consignee
49	NS	Supply of CAT-6 500 MHz STP cable roll of 305 meter length/roll/bundle, compliant with latest EIA/TIA-568-B-2-1 standard. Make Cabernet/DC6C/AUTP3X/Dig link or similar. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.	Lot	2	9323.55	18647.10	Consignee
		Total of Schedule "B"				7862378.42	
		G/Total (Sch-"A"+ Sch-"B")				47125807.08	

(Rupees Four Crore Seventy One Lakh Twenty Five Thousand Eight Hundred Seven and Eight Paise)

Part-IV**SCOPE OF WORK ,TECHNICAL SPECIFICATIONS & INSTALLATION PRACTICES****SCOPE OF WORK - S&T work in Connection with -"Proposed New Block Station along with development of Goods Shed at Manklav Station."****Scope of Indoor Work/Outdoor- Signal & Telecommunication
(For RE Section).**

- 1- **(i) Electronic Interlocking (EI) AT MANKLAV STATION-** Centralized EI system, with Hot standby mode is to be provided at MANKLAV Station.
- 2- **DRAWINGS– (AT MANKLAV STATION)**
Design, preparation & supply of all drawings for indoor and outdoor in computer print copies in required sets and original tracing in AUTO CAD FORMAT for EI at each station as per NWR/HQ Practice and instructions from Authority Engineer. Preparation, making photocopies & binding of SWR literature in English/Hindi/Diglot form along with associated mid-section interlocked gate if Any, with all corrections as per approved SWRD & approved SIP as per standard Railway practice. This also includes preparation of maintenance cards in format provided by Rlys. at. MANKLAV STATION.
- **DATALOGGER- (AT MANKLAV STATION)- Datalogger is to be provided at Manklav Station**
- **CABLE TERMINATION RACKS& RELAY RACK,FUSE BLOCK,FUSES- (AT MANKLAV STATION)**) Supply, installation of Cable Termination Racks at at. MANKLAV STATION per Drg. No. CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows.
- Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)Supply of End plate for item 4.28 (i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement. Supply of End Stopper for item 4.28 (i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement. Supply of Carrier Rails for above 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement. Supply of Markers strip for item 4.28 (i) of Chapter 4 of revised SOR. Supply & installation of Powder Coated Relay Racks as per Drg. No. CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements.
- Supply & installation of ARA Terminals, all type Fuses, required for commissioning of station as per OEM,RDSO Specifications and NWR/HQ Latest Policy.
- Supply & installation of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. All the newly laid main cables of various sizes are to be terminated on the CTR's of New Relay Room of Station.
- Supply ,Installation of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest.
- Supply & installation of round head type non-deterating type low voltage cartridge fuse as per RDSO Specn.No.IRS:S-78/92 or latest and Capacity - 2/4/6/10A/16A/20A Amp. (material will be supplied only from approved vendors of RDSO).
- 5- **RELAYS –**
ALL TYPES (All Relays should confirm/Suit to 25KV AC Traction) – AT MANKLAV STATION Supply, Installation, Wiring of Relays 24VDC Q-Series complete with plug board(base plate), connectors and retaining clips of different types as under at stations-
 - Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B, 24V DC complete conforming to BRS-935A and RDSO Specn.No.IRS:S-34 & S-23 or latest.
 - Q-Series Line Relay (QNA1 Type), AC immunized, 8F/8B, 24 V DC conforming to BRS-931A and RDSO Specn.No.IRS:S-34, S-23 and S-60 or latest.
 - Q-Series Line Relay (QNA1 Type), AC immunized, 12F/4B, 24 V DC conforming to BRS-931A and RDSO Specn.No.IRS:S-34, S-23 and S-60 or latest.
 - Q-Series Neutral Line Relay (QSPA1 Type), 24V DC,8F/4B conforming to BRS-933A and RDSO Specn.No.IRS:S-34, S-23 & S 60 or latest.
 - Contactor Unit (QBCA1 Type), 24 V DC, 2HF/4B conforming to BRS- 943 and RDSO Specn. No. IRS:S-34 & S-23 or latest.

- DC neutral line relay QNA1K , AC immune, DC neutral line 24V, 6F/6B contacts, Conforming to BRS:931A & RDSO letter no STs/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest. The interlocking code for this unit shall be "CDEKY".
- Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B conforming to BRS:939A & 966 (Appendix F2) or latest.
- Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with case, RDSO spec no. RDSO/SPN/219/2016 ver 1.0 or latest, confirming to IRS S-23, S-34 & S-60, IRS S:46.
- Supply & fixing of Sealing wire used for sealing of signaling relays & equipments at Stations.

6- GENRAL

- Supply, Fixing, wiring, testing and commissioning of ELECTRIC POINT MACHINE AS PER RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) RDSO DRG. NO S-10800 (ALT.5) WITH JUNCTION BOX TELESCOPIC. THE MOTOR WILL BE AS PER RDSO SPECN. NO. IRS: S-37/82 (AMND. 3) WITH RDSO DRG. NO. S-10910.
- Supply, Fixing, wiring, testing and commissioning of DC Track Circuit at stations.
- Supply and Installation of all type LED signal lamps for Main color light Signal and Subsidiary Signal 110V AC retro fit able in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/ 199/2010(Rev.1) & RDSO Specn.No.RDSO/SPN/153/2011 (Rev.4.1) or latest.
- Supply, Erection, casting of FRP Colour Light Signal Complete for 2/3/4 aspect signal and Subsidiary Signal.
- Supply and Fixing of Different warning Boards / Calling on Board used for Railway Signalling system as per RDSO Drg. No. SA2380 (Adv).
- Supply, Fabrication and fixing of Signal Number Plate(CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice.
- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area.
- Supply, Installation ,Excavation and Casting of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500.Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys.
- Supply, Installation, Excavation and Casting of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507.Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys.
- Supply, Fabrication and fixing of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest in Apparatus Cases Full/Half.
- Supply and Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry.
- Supply and fixing of Medium class GI pipes 50mm/100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg. No. CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer.
- Supply and placing of Double Wall Corrugated (DWC)-HDPE pipe/duct. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn. No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930.
- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine (HDD machine) or manual pushing method as per requirement. The requirement will be decided by site engineer and approved track crossing plan.
- Supply, transportation and installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker.
- Supply, Excavation, digging and laying of Signalling and Telecom cables as per NWR/HQ Policy as per approved cable core and cable route plan. Signalling cable to be laid in DWC pipe upto point zone, after that it will be protected by bricks.
- All cable laying will be in concealed form at station building and if cable will require on wall mount than cable will wall mount in PVC Pipes only.

- Cement concrete work as per requirement & site engineer instruction
- Providing brick masonry as per requirement & site engineer instruction
- Supply, Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn. RDSO/SPN/256/2002 or latest.
- Contractor Should Prepared Cable Route Plan, Cable Core Chart, Location Termination Details, CT-Rack Termination Detail, Relay Rack Detail, and Track Circuit Plan and Submit in Triplicate.

OUT-DOOR:-

1- Apparatus Case

- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two no's of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos. E Type Lock fitted on both doors, along with two Keys.
- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys
- Installation of Apparatus Cases Single (Large)/ Half with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder, switch and lamp etc. in Apparatus Case.
- Excavation and Casting of Apparatus Case Single (Large)/ Half, foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The require scaffolding fermaetic for Casting of foundation will have to be brought by the contractor at his own cost. The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted.
- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 12 mm / 1220X1220X20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied.
- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location boxes Single (Large)/ Half, by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site
- Supply and fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry.
- Fixing of KLCR relays in field in half location boxes if Gate lodge is not provided or at any other location as decided by engineer in charge.
- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux/ Berger make.
- MS sheet and wiring of KLCR relays, push buttons and LEDs for KLCR circuit. The KLCR relays, push buttons, LEDs will be fixed on a MS sheet of min. 3mm in the half location box. The MS sheet will cover full length and breadth of the half location box and divided in two pieces of approx. 48cm x 46cm and 80cm x 46cm. The first piece to be fitted on top and will contain the KLCR relays, LEDs and push buttons. The second piece to be fitted below the first piece.
- Supply and fixing of Medium class GI pipes 50mm/100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg. No. CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer.
- Supply and fixing of Medium class GI pipes 100 mm dia (4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg. No. CSTE/NWR/SOR/06 to 12 or
- at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends.

2- Trench and Cable laying

- Supply and placing of Double Wall Corrugated (DWC)-HDPE pipe/duct. It includes supply of Double Wall Corrugated -HDPE pipe/duct off Size as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930. & Placing of DWC HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc
- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine (HDD machine)

or manual pushing method as per requirement. the requirement will be decided by site engineer plan and approved track crossing.

- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine(HDD machine). The bore shall be upto 200 mm dia& shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This includes insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge.
- Supply, transportation and installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker.
- Supply, Excavation, digging and laying of Signalling and Telecom cables as per NWR/HQ Policy as per approved cable core and cable route plan. Signalling cable to be laid in DWC pipe upto point zone'/Up to Home Signal, after that it will be protected by bricks.
- All cable laying will be in concealed form at station building and if cable will require on wall mount than cable will wall mount in PVC Pipes only
- All New Cables Should be Done Megger before Laying, Record of health of all used cables New and existing should be maintained with their insulation resistance in writing.
- New cables will be connected to New relay room CTR whereas Exiting used cables to be patched with exiting CTR to New CTR with new cables.
- The cable should be laid as per standard practice of railway; the un rolling cable should be done with proper jack to avoid twisting of cable.
- The cable should be meggered with 500 volt Megger before and after laying and its value should be maintained in written record.
- Before start the digging for cable, the cable route plan should be decided with railway representative& got approved from competent authority.
- The conductors in the cables outside building shall be 1.5 sq.mm (copper) conforming to IRS:S-63.
- Excavation of cable trench shall be made in all kinds of soils including clearing roots of trees, rocks bushes etc., to a depth of 1.0M/1.65M and a width of 0.3M/ 0.5M as required, for laying cables. Trenches shall be straight as far as possible and steep angles shall be avoided. Alignment of the main cable route as well as track/ road crossing will be given by Railways. While taking the trench, all the roots of trees, bushes, rocks, if any, should be cleared. The bottom of the trench shall be levelled and got rid of any sharp materials. Proper protection to cables to be given while crossing power cables, pipelines, etc., as required by Railways.
- Signalling / power cables will be laid as close to the track as possible. The cable, track separation distance both within station limits and in the block section shall generally not exceed 6 Meters. It is desirable that the excavation of trenches is not done in long lengths and does not remain uncovered overnight. It is preferable that trenches are dug, cables laid and refilling done on the someday.
- The contractor who supervises the excavation work shall have the shoring materials ready on hand so that on banks where ashes or loose materials are encountered, shoring can be adopted.
- During excavation, the earth of the trenches should not be thrown on the ballast. The earth should be thrown by the side of the trenches away from the track. Plastic sheets/gunny bags may be used wherever necessary to cover the ballast.
- Before the cables are laid, a visual inspection of cable shall be made and it shall be tested for insulation and continuity of the cores. The insulation resistance of a new cable shall not be below 500 M.Ohms per Km. at 20 deg C. The cable insulation should be measured using a 500V insulation Tester (Megger). If there is wide disparity between insulation of different conductors, the condition of the cable should be thoroughly checked before permitting its use. Bedding and armouring shall be inspected to see that there has been no damage during transit or in storage. In case where the wheels are not available or the area is not convenient for rolling the wheels, along the routes, the drum shall be mounted on the axle at one end of the trench and cable payed out. It should be carried out by adequate number of men, ensuring that the insulation of the cables is not damaged and no kink/twist is formed. In no case shall the drum be rolled on the road for laying of cables and the cable dragged on the ground for laying purposes. The cables shall be laid gently into the trench and not thrown out under any circumstances. Before laying of cable in the trench, a visual inspection shall be adequate for any damage or defect throughout its length. Normally cable laying should be commenced only after the relay room and apparatus cases, cable termination box on the route at the respective stations are ready and the cable should be duly brought inside at the relay room/apparatus cases immediately after the cables are laid, however, if for any reasons the cable is be laid in advance, special care should be taken to ensure that the coiled cable near the relay room/apparatus cases is fully protected before and during the construction of the relay room/apparatus cases and during final termination. The coiled cable shall be buried well in the ground such that the depth from the ground level to the top layer of the coil shall not be less than 1 M and shall be fully covered with a layer of bricks horizontally in its entire length and

provided with adequate number of the cable markers. On no occasion, the ends of the cable should be left unsealed unless terminated properly

- Cable laying shall commence after the depth and width of the cable trench, Quality of bricks are jointly inspected by Railway Engineer's representative and contractor's representative and approved
- At each end of the main cable/tail cable/power cable an extra length of 6 to 8 Metres should be Kept.
- After the bricks are placed over the cable without any gap between two bricks properly, the excavated earth, shall be again put up in the trench. It shall be ensured that there are no stones or any sharp materials present. The refilled earth shall be consolidated and extra earth also shall be placed on the trench to compensate the shrinkage and consolidation of earth.
- Wherever signalling/power cable has to cross the track/road it shall be ensured that:
- The cable crosses the track/road at right angles.
- The cables do not cross in between or inside points and crossings.
- The track/road crossings to be carried out as per the instructions of
- Railway representative at site.
- In case of track crossing, work includes removal of ballast, excavation of trench 1m/0.5m below the ground level and across the track at places indicated by the Railways and covering, resurfacing the trenches and ballast to the original condition after placing RCC pipe/pipes in position.
- On bridges, the cables are to be laid through GI Pipes 50mm dia- 3.65mm thick/100mm dia-4.5mmthick/DWC pipe with off-set both ends and with coupling wherever required as per Railway requirement. The pipes shall be suitably supported over the bridges/drainage/culverts with brick masonry works of size 300x300x300mm at an interval of 2M in box type bridges and suitable MS clamps at an interval of 1M in Girder bridges. The end of pipes will be closed with brick masonry about of size 0.5mx0.5mx0.5m

3- Point Machines:-

- Supply of ELECTRIC POINT MACHINE 143 MM STROKE AC IMMUNITY 160V AC COMPLETE WITH LOCK DETECTOR AND SLIDES FOR LOCK DETECTOR NON -TRILABLE TO OPERATE ON 110 VDC ROTARY LOCKING WITH CRANK HANDLE UNIVERSAL TPE AS PER RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) RDSO DRG. NO S-10800 (ALT.5) WITH JUNCTION BOX TELESCOPIC. THE MOTOR WILL BE AS PER RDSO SPECN. NO. IRS: S-37/82 (AMND. 3) WITH RDSO DRG. NO. S-10910.
- This includes supply of Set of tools as per para 20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1)
- The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less.
 - i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads.
(One 250 mm long 12.5 mm square extension bar as per IS: 7991 along with compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.)
 - ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028.
 - iii). Adjustable wrench.
 - iv). Screw driver 300 mm long.
- Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine.
- Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection,
- adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers
- All smithy & fitting works required at site for complete installation.
- Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railway.
- Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on NWR and the instruction of Railway Engineer at site.
- Supply and fixing of suitable size GI pipes with flange for taking cable into point machine.

- Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately

4- Track- Circuit –

- Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery.
- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161-66/M or latest.
- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, B type choke etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make terminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material will be supplied by contractor.
- Installation of DC track circuits covering all types of Track circuits including points zones also. The item includes provision of doubled continuity GI wire bonds on rail joints
- after drilling bond-hole of 7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint(if required), fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. In case Engineer at site desires that jumpering from TLJBs is to be done using signalling cable 2 core X 2.5 sqmm, contractor shall provide the jumpering cable using 2 X 2.5 sqmm signalling cable. The signalling cable will be supplied by Railways. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item does not include includes supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs.
- Installation of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc.
- Installation and commissioning of TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc
- Installation and commissioning of Each TLJB having two Bakelite terminal block fitted horizontally: each Bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long. Along with each TLJB, nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be wired and fixed properly.
- Installation of HDPE pipe of size 32/35mm , 380 mm long along with two nuts for fixing on the TLJB hole .
- Installation of the FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.)fixed at 50 mm from the bottom using galvanised nuts and bolts. The TLJB and the angles for stump should be fixed in given holes on them for fixing using galvanised nuts and bolts .
- Supply of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. The technical specifications are as follows:
- TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc.
- Each TLJB shall have two Bakelite terminal block fitted horizontally: each Bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long. Along with each TLJB, nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be supplied.
- HDPE pipe of size 32/35mm , 380 mm long along with two nuts for fixing on the TLJB hole
- The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50mm from the bottom using galvanised nuts and bolts. The TLJB and the angles for stump should come along with holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied along with TLJB drawing no. 11509.Erection, Fitting and Rail connection of Track Lead Junction Box on two supports (FRP stumps) with contractor's fixing material .This will include drilling of holes for track lead/side connections on rail. The work shall be done as per instructions of Rly engineer at site

material, the consent require to taken from Engineer In charge of the work for inspection of material.

(All installation should suit 25 KVA RE area requirement)

The colour of the wires for wiring should be as per standard colour scheme used on the Railway which is as follows:-

- **Blue 24V D.C +ve**
- **Grey 24V D.C -ve**
- **Black 110V Bx & Nx, 24V Nx**
- **Green 24V steady**
- **Red 24V flashing**

The above colour scheme shall be followed as required.

Contact numbering for the relays shall be made by the contractor as per the approved circuit diagram issued by the railway and type of relay proposed to be used on the installation.

No joints are permitted in the connection wires.

Wiring in relays housing shall be uniform for like apparatus throughout the installation.

For all external circuits, cross protection with double cutting shall be provided to prevent unsafe operation due to a cross, break or both.

Wiring inside one rack for shelf type and plug in Contact relays type (Metal to Carbon)

Relay rack wiring housing plug in type relays conforming to BRS-930 and shelf type relays conforming to BS-1659 shall be done with "PVC insulated unsheathed flame retarding type single core flexible wire 1100V grade having 16/0.2mm. annealed copper conductor and nominal cross sectional area of 0.5 Sq. mm of common colour code to the specification IS: 694". For wiring these relays the above wires shall be terminated on eyelet /lugs of standard design.

Wiring of proved type relays (metal to metal contact):

For wiring the above relays the use of single strand tinned copper wire of 0.6mm and 1.0mm 1100V grade PVC insulated flame proof shall be used. The use of multi-core cable of 100 core, 60 core, 40 core and 20 core having the above conductor diameter and, grade is permitted. Size of conductor shall be chosen based on current to be carried through these conductors. The wire and cable used shall generally conform to IS: 694.

The wiring between the terminal board of the panel and the unwired tag block on the relay rack is to be carried out using multi-core cables (40 core or 60 core) 0.6mm/1.0mm diameter annealed tinned copper wire to IS:694.

The wiring on the Q' series relay rack is to be carried out by 16/0.2mm dia single core multi-strand flexible A. T. copper wire to I.S.694.

Soldering at the tag block terminals shall be made using good quality solder and flux. Care must be taken to prevent dropping of excessive solder from terminal thereby causing failure/unwanted connection or short by fusing of PVC insulation in the row below it. It is advisable to raise the wires by mechanical means and temporarily interposing a wooden or plastic sheet between the adjacent rows while soldering, to collect the excessive solder that may be dropping out.

After testing, the loose wires on the cable ladder shall be neatly bunched and laced with twine black. The contractor shall adopt suitable colour code for wiring as required by the Engineer in-charge. Spare conductors to an extent of 10% are to be provided on the interconnecting wire runs for future developments, in case multi-core cable is used.

Various supplies associated with signalling viz., 110V AC, 110V DC, 60V DC, 24V DC 12/24V AC and 12/24V AC flashing are to be brought out to the relay/equipment room as per instructions. Necessary measuring instruments are to be mounted on the Hylam sheet 10 mm thick fitted to the power panel with suitable switches and HRC fuses.

After the complete testing by the Engineer in-charge and before commissioning the installation, the contractor shall arrange necessary lead seals & sealing wires for sealing the relays.

The nomenclature of each relay shall be painted both in front and rear side of each relay with contact configuration. The relay index sheet duly painted with details of relay and their position in the relay rack shall be manufactured out of Decolum /Novapan or similar sheet and fixed in the relay room. All the relays to be plugged shall be checked visually and defect if any, noticed shall be replaced, duly reporting the same to the Railways. Relay rack wiring and contact chart of all relays shall be prepared in linen/polyester sheets, duly signed and handed over to Railways for preparation of handing -over documents to maintenance organization.

Suitable arrangements shall be made in the relay rack for fixing condenser and resistance unit, required for slow to release feature. Letter painting shall be made against each unit to identify circuit for which it is used.

6- FUSES, TERMINAL AND TERMINAL LINKS

It shall not be possible to insert a cartridge of a higher rating into a holder of lower rating.

Fuses shall be of non-deteriorating type conforming to RDSO specification.

Fuse clips shall be mounted on an insulating base of fireproof material.

Fuses or circuit breakers shall be installed according to standard practice with prior approval of the Railway.

Cartridge fuse links shall conform to BS Specification no.714 or equivalent.

(ii) Terminals

Terminals shall be as per IRS specification S-78/92 and Terminal blocks shall be IRS specification S;75/2006(Rev2). The material shall be PBT/Polycarbonate/FRP. It should be fire retardant. The material should be got inspected by RDSO.

Terminals shall be mounted so that they cannot be turned in base of frame to which applied. They shall be properly insulated from each other and other metallic parts.

Terminals supporting the fixed parts of front and back contacts of relays shall be fastened in their supports, so as to preclude adjustments of any kind without first breaking the seal of the relay.

Terminals shall be installed in an accessible position and neatly arranged on terminal boards in housings.

The terminal blocks provided at the locations and other places shall be provided with suitable links to facilitate isolation of the two sides of the circuits which are connected through the terminal links.

7- INSULATION

Provision of insulation wherever required to follow standard approved Railway practice for the purpose. Material used for insulation shall be such that it will not be injuriously affected by atmospheric conditions.

8- SOLDERING

Soldering shall be carried out with the resin cored solder or any standard solder. Before soldering, the approval of the Engineer-in-charge shall be obtained. Care should be taken to ensure that the insulation of the wire is not burned while soldering.

9- ELECTRO-MAGNETIC INTERFERENCE [EMI] SHIELDING

- i. Electromagnetic Interference [EMI] shielding shall be done with the bare standard copper conductor of suitable size as per latest guidelines issued by RDSO.
- ii. The Earth Bus Bar shall be installed at a height of 0.5 Mtrs from the floor level or as decided by site engineer.
- iii. The Earth Bus Bar shall be insulated from the building structure with low voltage insulator spacers of height 60mm. The whole assembly shall be fixed on a hylum sheet of 6mm thickness mounted on wall.
- iv. The conductors for EMI shielding shall be fixed on the walls by providing suitable mounting arrangements and insulated spacers of height of 60 mm or as per guidelines issued by OEM/RDSO.
- v. All the bare conductors shall be connected to Earth Bus Bar at a common point.
- vi. The work includes supply of all materials by the contractor at his cost.
- vii. The contractor shall submit the drawing for the above arrangement for approval, before

- commencement of the work.
- (i) resistance of the Earth Electrode shall not exceed 10 Ohms for “conventional earth” and 1 ohm for “Maintenance free earth”.
 - (ii) Earth Electrode shall be tested as per instruction of Earthing and the result shall be recorded in the proforma. The proforma should be signed by the representative of the Contractor and the Engineer.
 - (iii) Earthing of equipment shall be done as per the instruction on Earthing of signalling and telecom equipment in 25 KV 50 Hz AC electrified section.

10- TESTING AND COMMISSIONING

Testing and commissioning consist of final testing of selection circuits, for proper functioning of track circuits and points, gears as per SEM, energizing and testing of power cables, stabilisers, secondary cells for all circuits, energizing and testing of colour light signals and final commissioning of the entire signalling arrangements for traffic use. All the alterations for improving safety shall be carried out before commissioning as required by the Railways. The contractor shall first test the equipment and then jointly with Railways, testing charges being borne by the contractor. The contractor shall provide test panel for testing at his own cost. The different stages and procedures for testing of indoor and outdoor equipment are given below as guidance –

STAGE. I - TESTING OF THE E I

STAGE. II- TESTING OF THE OUTDOOR GEARS, i.e. POINTS, SIGNALS, TRACK CIRCUITS, LC GATES, ETC.

STAGE. III- COMMISSIONING OF VDU BY CONNECTING THE OUTDOOR GEARS TO THE VDU.

TESTING OF ELECTRONIC INTERLOCKING.

Testing of Electronic Interlocking consists of Energization of relays by connecting the simulation panel, & Clearing of signals on the simulation panel and carrying out the following tests (As per table of control) –

- Negative tests
- Dead/Approach locking tests & Route/Back locking tests
- Testing of conflicting signals & routes.
- All other circuits viz., SM's key, CHLR in the respective signalling circuits & LXPR, KLCPR are proved correctly.

Above activities are explained below in detail –

Energisation of relays:

For major yards, it is preferable to energize relays, circuit wise and sheet wise since it involves number of routes and parallel movements. For way station, it is preferable to energize the circuit, route wise. Before taking up the above energisation, the following works shall be completed –

- Wire to wire bell-test of all sheets before soldering and after soldering.
- Plugging of all relays as per contact configuration.
- Power supply arrangement with batteries.

1. Connecting The Simulation Panel:

- It shall be possible to control all TPRs, NWKR/RWKR, CHLRs, KLCRs, LXCPRs etc., from the simulation panel by energizing all the relays.
- It is desirable to have the simulation panel adjacent to control panel/VDU so that the panel indication can be observed simultaneously while testing.

(i) Connecting simulation panel : Simulation panel consists of two Boards –

Board No.1: It depicts the yard (painted) with points, track circuits, LC gates and slots. Switches are fixed on the board to simulate the conditions of the points, track circuits, interlocked LC gates, slots etc.

Track circuit switches are fixed on the track. Point control switches are fixed nearer to the

points, for small yards. For major yards the switches are grouped as point switches and track circuit switches. Functions requiring ON and OFF switch (with make and break facility i.e. two wires only.) with facility to pick up a relay in one position and drop the same in other position.

Example:

- Switch OFF - Track Down - TPR dropped.
- Switch ON - Track pick up - TPR picked up.

For controlling the following functions the above type switches shall be used –Track circuits, Siding points, Crank handles, Slots, LC gates

Points require ON and OFF switches with facility to pickup conflicting relays (i.e., NWKR and RWKR) in two positions. (These switches require three wires.)

Board No.2: To simulate the signals the following bulbs are used as dummy loads for the ECRs to pick up and also to observe the aspect of the signals during testing.

- ON aspect - 110v 40W
- OFF aspect - 110v 25W
- Route aspect - 110v 75W (Junction type Route indicator)

(ii) Wiring simulation panel to the relay room side wiring at Station-

- Disconnect all the links on cable termination rack. Wires from the switches are connected to the relay room side termination. Similarly the wires from simulation panel board. no. 2 consisting of lamps is connected to the relay room side termination.
- 0.6 mm multi-core cable is used for wiring the simulation boards. To reduce the voltage drop, more conductors are used for supply taken to the test panel and also to the negative since common return is used.

11- TESTING OF OUTDOOR GEARS

Testing of outdoor gears consists of –

- Signals
- Motor operated points
- Track circuits
- LC gates (Interlocked) (If Any)
- Sidings (if Any)

SCOPE OF TWS:- This specification covers the requirements of Non-Trailable Electric Point Machines 143-mm throw with internal locking for operation of points in Railway yard.

A- TERMINOLOGY

The terminology used in this specification is covered by the definitions given in IRS:S 23

The terms referred to in this specification but not covered in IRS: S 23, are defined below :-

‘Electric Point Machine’- It is an electrically driven machine used for operation of points in railway yards.

‘Throw-Bar’- That part of the point mechanism, which provides the thrust for operation of points and to which the points driving rod is connected.

‘Lock Slide’-That part of the point machine which has suitable notches in it for locking segment to effect locking of the points.

‘Detector’- A device to prove the correct setting of points or correct setting and locking of points.

‘Detector Slide’- That part of the point machine which controls the detector contacts and to which the detector rod is connected.

‘Time of Operation’- The time required for one complete sequence of operation as specified in clause B.

‘Right-hand Mounting’- A point machine which is fixed to the right of the track as seen

while facing the points.

‘Left-hand Mounting’- A point machine which is fixed to the left of the track as seen while facing the points.

‘Stalling Load’- The load applied to the throw-bar which, when the clutch of the point machine is deliberately prevented from slipping, would just prevent the driving movement of the machine.

‘Crank Handle’- An appliance by which electrically driven point machines may be manually operated at the site.

‘Slipping Load’ – The load on throw-bar at which friction clutch of the point machine is adjusted in the factory to slip.

‘Slipping Current’ - The current corresponding to “slipping load” at which friction clutch of the point machine is adjusted to slip.

B- SEQUENCE OF OPERATIONS

The machine shall operate in the following sequence:-

- a) Open the detection contacts
- b) Unlock the points
- c) Move the points
- d) Lock the points
- e) Close the detection contacts.

Operation (c) shall be completed to the full normal or full reverse position of the points, and operation (d) shall be completed before closing of detection contacts for respective position can take place. Unlocking of point shall start only after opening of detection contacts.

C- RATED VOLTAGE

c.1 The rated voltage of the machine shall be 110V DC.

D - GENERAL REQUIREMENTS

The machine shall be of robust construction, securely fixed and protected from unauthorized interference.

The machine shall be so designed that it can be stopped, reversed or obstructed at any point during operation without any damage.

The machine shall be so constructed that no movement of the mechanism shall result from vibration or external force applied to the mechanical connection.

The machine shall be suitable for either right-hand or left-hand mounting, and shall be so constructed that it can readily be converted at site from right-hand to left-hand mounting and vice-versa.

The motor cut-off contacts shall be housed in the mechanism case and so designed that they follow the movement of the mechanism and do not complete their operation until the locking mechanism has completed its function.

The locking of the points shall be achieved by means of a locking segment engaging in the locking slot of the lock slide.

The locking segment and the notch in the lock slide shall be of substantial size and shall have a substantial bearing surface between them in the locked position.

The entrance edges of the locking slot in the lock slide and the end face of the locking segments shall have square edges. Notches shall be cut to correct size and locking segments shall be made of hardened steel.

The detector unit shall have sufficient number of contacts for proving the full normal and reverse positions of the detector slides and the corresponding locked position of the lock slide. It shall also prove the complete operation of the point machine and the complete movement of locking process.

Detection and motor cut-off contacts shall be housed in a transparent cover made of UV stabilized polycarbonate material. The sealing arrangement should be provided on the transparent cover and it should be dust proof and water proof. The position of the detection and motor cut off contacts shall be such as to avoid dropping of grease, oil during maintenance work.

Electrical contacts shall be of low resistance, quick acting, self-aligning and wiping type and shall conform to IRS: S 23.

Provision shall be made for proper and convenient lubrication of the moving parts of the machine, wherever necessary.

Exposed oil holes, cups and grease nipples shall be provided with weather-proof spring loaded covers.

The design shall be such as to minimize condensation in the machine.

Clearance of not less than 12 mm shall be provided between any exposed current carrying parts and other metallic parts insulated there from.

With the exception of motor commutator, a surface leakage distance of not less than 6 mm shall be provided between any exposed current carrying parts and other metallic parts insulated there from.

The insulating materials used shall conform to IRS: S 23 and shall not be injuriously affected by atmospheric conditions.

Dimensions of fixing arrangement of point machine shall be as per drawing No. RDSO / S 10800 for 143 mm stroke and RDSO / S 11000 for 220 mm stroke IRS point machine.

E - MACHINE CASE

‘The machine shall be enclosed in a strong metallic weather-proof machine case, designed for mounting on two sleepers. Each machine case shall be provided with removable cover/covers. The main cover/covers shall be equipped with suitable fastenings to enable the covers to be secured and locked. Suitable hole or holes with removable metal plugs shall be provided, at the base or the machine case, for draining off of the accumulated oil or water.

The machine case shall be provided with cable entries of ample size, conveniently located for access to terminals, equipped with suitable means for connecting flexible conduit and arranged to protect the cable from mechanical injury. The cable entries shall be suitable for either right-hand or left-hand mounting of the machine, and shall be so designed that the machine case will be weather-proof.

The machine case shall be provided with an opening, for application of crank handle protected by an external metal weather-proof cover equipped with suitable fastenings for locking.

The machine shall be so designed that it is capable of being mounted at a raised level on extended sleepers in flood prone areas.

The height of the machine shall be such that there is no infringement with the schedule of dimensions when the machine is mounted on two sleepers.

F- MOTOR

Motor shall comply with the requirements of IRS: S 37 ‘Motor for Electric Point Machine’.

Motor shall form an integral part of the machine and shall be removable there from.

Motor terminal blocks shall be made of unbreakable material like PBT.

G- CRANK HANDLE OPERATION

The machine shall be so designed as to permit manual operation by use of a crank handle.

The machine shall be provided with a crank handle cutout contact such that the crank handle cannot be inserted in the machine without isolating the motor circuit. This circuit shall not

be capable of being reconnected until the crank handle has been withdrawn from the machine.

- H-** The crank handles shall be provided with different ward combinations with matching sockets on the machine, so that the crank handle having a particular ward combination can only operate point machines having matching sockets. Instead of crank handle, a key may also be provided with different ward combinations with matching sockets on the machine so that insertion of key of the particular ward only is possible in the point machine socket which will enable a common crank handle to be inserted in the machine.

Crank handle/key sockets on the machine shall be provided with detachable arrangements so that when the machine is taken out for maintenance purposes, the same crank handle/key ward can be used in the new machine, thus enabling the use of the same crank handle/key ward combination for that point. CH WIRING Internal wiring shall be neatly arranged and shall conform to IRS: S 23. Colour code and numbering of internal wiring shall be as per **HQ letter No.SG/184/1 Vol. VII Dated-14.09.2020 by CSE/NWR/HQ.**

The conductors for the internal wiring shall be insulated and shall be of tinned copper, stranded, having a cross-sectional area of not less than 2 sq. mm and not less than 3 strands. Both ends of each conductor shall be labeled and provided with an eyelet of a suitable type. These eyelets shall be crimped and soldered.

Where wire connections are provided at a common terminal, the same shall be capable of being disconnected readily for test purposes. Wiring diagram with explanation, if any, in English, engraved on an anodized metallic sheet, shall be securely attached to the inner face of the cover of the machine and protected from the effects of lubricants and moisture.

I - OPERATING CHARACTERISTICS

The machine shall comply with the appropriate operating data given in clause 11.6 of this specification.

The machine shall be capable of operating between the limits of 75 percent and 125 percent of the rated voltage at 450 kg. test load for 143 mm. throw point machine and at 550 kg. test load for 220 mm throw point machine.

The machine in locked position, shall be capable of withstanding a thrust of 9000 Kg. through the connections, so that in the event of trail through, the damage is confined to the connections between the machine and points.

The friction clutch of the machine shall be factory adjusted to slip at not exceeding 580 kg. load on throw bar for 143 mm throw point machine and at not exceeding 700 kg. load for 220 mm throw point machine. The clutch adjustment shall be sealed in the factory. The slipping load and slipping current shall be indicated on the name plate.

The point machine shall have a min. AC immunity level of 160 V (r.m.s.), 50 Hz.

Operating Data

Throw of point machine	Time of operation(Max.)	Current consumption	Test voltage	Test load on throw bar	Slipping load	Stalling load (Min.)
143 mm	4.0 sec.	≤ 4.5 Amp.	110 VDC	450 Kg.	≤ 580 kg	1000 kg.
220 mm	5.5 sec.	≤ 5.5 Amp.	110 VDC	550 Kg.	≤ 700 kg	1000 kg.

J - MARKING & IDENTIFICATION

Marking and identification shall be done in accordance with IRS: S 23.

The nameplate of the electric point machine shall have the following details, engraved on a metallic plate, affixed at a convenient place on the internal portion of the point machine.

1. Designed by RDSO
2. Manufacturer's name or trade mark
3. Serial No.
4. Rated Voltage (110V, DC)
5. Throw
6. Slipping Current
7. Slipping Load
8. Year of manufacture.

K TOOLS & ACCESSORIES :

The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less.

- i) M6 / M8 / M18 / M20 / M22 Box spanners.
- ii) M10 / M12 Spanners.
- iii) Adjustable Wrench.
- iv) Screw driver 300 mm long.

Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine.

Ground connections and clamp lock shall be supplied along with the point machine on requirement from the purchaser as per drawing given below or as per their requirement i) RDSO / S 3361 – 62 (60 kg., 52 kg. on PSC sleepers) ii) RDSO / S 3262 – 63 (52 kg., 90 R on wooden sleepers) iii) RDSO / S 3454 (60 kg. TWS with clamp point lock) iv) RDSO / S 3495 (60 kg. swing nose crossing with clamp point lock)

12- TESTING AND COMMISSIONING OF OUTDOOR EQUIPMENT

Cable meggering and pairing up of conductors shall be done.

- (iii) All the power cables shall be made through and power supply shall be extended to all locations.
- (iv) After the power cables are energized, check-up each limb of the power cable whether any earth fault exists using multi-meter. This will indicate whether any cable conductor is faulty (i.e. earthed).
- (v) Signals shall be initially tested from the location box to attend to minor troubles of bulb holders, wiring etc.,
- (vi) All the aspects shall be checked by giving 110V AC feed from location box and then the test shall be repeated by giving feed from Relay room CT rack. This test shall be done for each aspect, route and pilot lamp of shunt signals.
- (vii) Care shall be taken to ensure that no train is approaching during this test to avoid misleading information to drivers.
- (viii) Ensure that signal number plate is provided and unit back door is fastened and locked properly. Door locking is very important to prevent sunrays falling on to lenses to give phantom indications.
- (ix) Focus the signal aspects, record the aspect voltages and ensure that it is within the permissible limit. (90% of rated voltage of the bulb)
- (x) Points shall be tested first locally from the location box when the point contactor unit is kept in location. Before commencing this test, ensure 110V DC, 24 VDC are available in location box. **If it is cross over point, it is preferable to test one by one and then test both at a time.**
- (xi) Following tests shall be carried out on Point Machines:
 - Obstruction test.
 - Detection contact break test
 - Out of correspondence test (in case of cross over point)
 - Track locking test (to be done when operated from panel/VDU).
 - This test is to be done for both N to R and R to N operations.
 - Whether point can be hand cranked with interlocked crank handle.
 - Check the correspondence between point position at site, both the ends in case of

- crossover and NWKR/RWKR in relay room (to be done when tested from panel/VDU)
- (xii) Following tests shall be carried out on Track Circuits:
 - All the track circuits shall be energized and outgoing TPR voltages checked.
 - Check whether cross protection wiring is done for TPR circuit.
 - Shunt the track circuit at various places on the track and check whether the track relay drops every time it is shunted. (Especially near fouling marks).
 - Check the correspondence between TR and TPR in relay room.
 - Track circuit shall be adjusted properly and readings recorded. TSR value shall be recorded.
 - Check whether the track circuit is protecting the fouling point.
 - Ensure that at least one polarity rail is in series connection.
 - Checkup input AC voltage to the track feed charger is sufficient and battery is getting charged.
 - (xiii) Check up the interlocking of L.C. Gates, siding points.
 - (xiv) Check up for the proper functioning of electrical transmission of key transmitters.
 - (xv) Check up the panel indications.
 - (xvi) Connect magneto telephone communication between SM and LC gate/siding.
 - (xvii) Ensure that respective signals cannot be taken off if LC/siding controls are not available with SM (i.e. on panel)
 - (xviii) Ensure that when the signals are taken off, respective LC gate/siding key cannot be extracted from the EKT

13- MISCELLANEOUS:WOOD WORK:

- (xix) Wherever woodwork is involved, the wooden planks are to be supplied by the contractor and he shall ensure the wood of good quality, which shall be varnished/ painted as specified. All teak wood boards shall be varnished and hard wood shelves should be black painted.
- (xx) Wooden cross of approved type should be provided for the newly erected colour light signals, till they are commissioned.
- (xxi) Wooden Board and shelves are to be properly polished before fixing the terminals and equipments on it, as advised by the Engineer.
- (xxii) All the equipments, relays and terminals are to be mark red by lettering on it as advised by the Engineer.

14- SPECIAL SITE CONDITION:-

The work shall be carried out under train running conditions in the busy main line & working yards taking care that the existing working *cables* and other safety gears are not damaged during the trenching and laying of new cables. Further, new work is carried out keeping the existing gears intact commissioning of work and ensuring safety of manpower and running of train safely. Submission/acceptance of disconnection memo and non-interlocking of the yard without effecting the punctuality and overall safety of the traveling public are also to be taken into account. Extra safety precautions shall, therefore, have to be taken during execution of this work.

All Indoor & Outdoor circuits shall be designed and work shall be executed to suit RE area. All the material to be supplied by the contractor should also conform to suit the RE area. Wherever any RDSO spec./drg. are mentioned it automatically includes “with latest amendment/revision” whether specifically mentioned or not in the schedule of works.

15- GENERAL SPECIFICATION FOR WORK,

1. Railway representative before its actual use shall inspect materials supplied by contractor.
2. The quality of work shall be carried out in accordance with the standard practice.
3. Complete work including all items supplied and executed by contractor shall be under warrantee period of one year from the certified date of completion of the work.
4. Contractor shall arrange all testing facilities. All material supplied shall be in accordance with the specifications mentioned in the schedule of works.

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5. The contractor should submit details of credentials along with tender.
6. Consignee shall be SSE/SIGNAL/GSU/JU or **as nominated by CPM/GSU/JU or Dy.CSTE/GSU/AII**. All freight charges for the supply of items to the store of Consignee or transportation to the site of implementation shall be borne by the contractor.
7. Regarding the execution of work, the Engineer's representative authorized for the purpose by the CPM/GSU/JU or Dy.CSTE/GSU/Ajmer, will inspect and test the various portion of work at all stage and shall have full power to reject all or any work/ material that they may considered to be defective design that may endanger safety. The contractor shall carry out such tests at his cost as are necessary in the opinion of the Railway.
8. The Engineer shall only issue the completion certificate in accordance with Para 48 of General condition of the contract after installation is satisfactorily commissioned and jointly checked with the Railway.

Note:- In whole Tender Document, where ever designations are mentioned they would be taken as there corresponding designation of S&T Department.

OTHER SPECIAL CONDITIONS

Details of the work to be carried out by the contractor are given in Bills of Quantities. The contractor during execution of the work shall take all the precautionary measure. He will be Liable to pay any loss incurred/caused to Railway/other department of his negligent working. The entire works are to be carried out in strict compliance to the tender conditions and specifications and under supervision of Railway Representative.

1. Quoted rates will be inclusive of all type of taxes, duties and carrying cost involved in and concerned with the work.
2. Care should be taken to avoid any damage during the work. Any damage to railway property shall be made good by the contractor at his own cost.
3. The contractor during execution of the work shall take all the precautionary measure.
4. He will be Liable to pay any loss incurred/caused to Railway/other department of his negligent working.
5. The entire works are to be carried out in strict compliance to the tender conditions and Specifications
 - a) He will be Liable to pay any loss incurred/caused to Railway/other department of his negligent working.
 - b) The entire works are to be carried out in strict compliance to the tender conditions and specifications.
- 5 The rates quoted by the firm shall be inclusive of duties, taxes, service taxes and freight etc. No additional payment shall be made except the accepted rate of items of schedule.
6. Quantity as specified in schedule may increase or decrease by 25%.

7.

Mode & Terms of Payment:

All payments will normally be made only for finished works on the basis of mode and terms of payments agreed upon and provided in the contract.

(a) The Payment to contractor will be made as per Railway Rules and regulations through running bills after making entries in MB, and on submission of satisfactory maintenance certificate from the in charge SSE/Sig/GSU/JU or as **Nominated by CPM/GSU/JU or Dy.CSTE/GSU/AII** for his respective section duly signed by nominated SSE/Sig. & contractor.

Test check of the concerned works will be done as per latest norms/guidelines of NWR.

Shramik -kalyan portal by Contractor.

- 1- Clause 54 & 55 of Indian Railways General Conditions of Contract deals with Wages to labour and action in case of default of contractor to payment of wages.
- 2- In order to increase transparency in payment of Contract Labour wages and other payments, a web based e-application has been developed and hosted on website www.shramikkalyan.indianrailways.gov.in.
- 3:- All contractors are required to upload details of their LoAs, engaged workmen, wage payment details, PF/ESI details, bonus details etc., on monthly basis. The details so uploaded shall be available in public domain.
- 4-In order to ensure prompt and proper uploading of details related to LoAs, engaged workmen, wage & other payment details, Railways/ PUs etc. shall introduce a special condition in their tender documents of the tenders to be called henceforth. The special condition is as under:

A)-. 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: (a) Contractor shall apply for onetime registration of his company/firm etc. in the Shramik kalyan portal with requisite details subsequent to issue of Letter of Acceptance.

Engineer shall approve the contractor's registration on the portal within 7 days of receipt of such request.

(b) Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LoAs issued in his favour.

(c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LOA) / Contract Agreements on shramik kalyan portal within 15 days of issue of any LOA for approval of concerned engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.

(d) After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalvan portal on monthly basis.

(e) -----It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period. B.)- - 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 Shramik kalvan portal at 'www.shramikkalvan.indianrailways.gov.in' till----- Month ----- Year."

(Railway Board Letter No-2018/CE-I/CT/4 Dated 17.10.2018)

OEM's Site Installation Certificate
(For CCTV, EI, Data logger, FEP, IPS, HASSDAC & ELD)

To, CPM-GSU-JU

This is to certify that verification of system installation (details given below) has been completed by undersigned (OEM representative) and all necessary arrangement like earthing, surge protection, power supply, power & communication cable and equipment wiring meet the requirement 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 the RDSO approved Original Equipment Manufacturer

Name of OEM representative with designation

Signature of OEM representative with date

Appendix-AD**Materials to be supplied by the contractor, the cost of which is to be included in the labour charges of concerned item of Schedule.**

These shall include the following materials in addition to any other material, which may be considered necessary for complete and satisfactory execution of the work, according to specification:

1. Bolts, nuts, rivets, spring washers, square/round washers of all type and sizes.
2. Foundation bolts of all sizes.
3. Split pins of all sizes.
4. Lubricants such as grease, spindle oil, axle oil, graphite etc.
5. Kerosene oil.
6. Spirit, varnish, polishing material etc.
7. Cotton waste.
8. Sulphuric acid.
9. Distilled water.
10. Steam coal.
11. Emery paper and sand paper.
12. Dressing thread and other dressing material.
13. Screws, MS wood, nails of all sizes etc.
14. Hasps / staples, locking bolts and handles.
15. Hinges of all types.
16. Solder, resin for soldering.
17. Various sizes of MS angles, flats, plates and bars etc.
18. Any other minor items for satisfactory completion of the work.
19. Ordinary port land cement (required for any item of the Schedule), as per IS code 296 shall be supplied in bags. Shall not be supplied of older than 3 months. It shall have ISI mark on the bag along with date of manufacture.
20. Sand, stone & other aggregates.
21. All materials and equipment mentioned in contract schedule.
22. Vendor specific relays required for EI to make it functional which are not supplied by Railway.
23. All other hidden material/accessory that is not appearing in the schedule but required for installation shall also be supplied by the contractor.
24. All type of measuring instrument /testing Eqpt required for testing the installation will be arranged by the contractor.

Materials to be supplied by Railways:

1. LED for main and subsidiary signals.
2. Signalling cables.
3. Integrated Power Supply (IPS).
4. Any other items which is listed in Schedule where Railway may decide to supply.
All the materials supplied by Railways will be loaded/unloaded and transported from the place of issue and to the site by the contractor at his own cost. Security & upkeep of issued Railway materials will be the liability of the tenderer.

Note: Materials supplied by the Railway for execution of the work, shall be made available to the contractor at any store in North Western Railway. These materials are to be transported to the site of work by the contractor and balance materials after completion of the work, if any, shall also be transported back to the designated store in North Western Railway by the contractor at his own expenses.

FORMAT FOR QUANTITY BREAKUP FOR EI SYSTEM TO BE FURNISHED BY TENDERER (if applicable)

S.N.	Description of Item	Unit	Name of Stn-1	Name of Stn-2	Total Qty.	Base Rate	Total Amount

(Tenderer shall furnish detail quantity breakup for the EI system offered against SOR- of Schedule)

Note:-

1. Tenderer shall furnish detail quantity breakup for the EI system offered against SOR of Schedule according to the format given in Appendix-AF above.
2. Yard Plans attached in Appendix-AF are tentative and Railway may modify/change any drawing at any stage, tenderer shall be bounded to work with altered plan without any extra claim.
3. Approved SIP of stations and referred SOR drawings can be collected from the office of Dy.CSTE/GSU/AII.
4. The approximate cost /quantities shown against the SOR/NS /schedule of items, rates and quantities are for rough guidance only. These are subject to variation depending upon the needs of the Railway and Railways reserve the right to increase /decrease the cost/quantities as per site conditions.
5. All items are for complete job including labour and material and all lead, lifts, ascents, descents, crossing of Railway lines, obstructions, leading, loading, unloading handling, re-handling, all taxes, Octroi, royalty etc.
6. The tenderer/s are required to submit all the required documents including the credentials along with the original offer. Tenderer/s may please note that no separate correspondence will be made in this regard.

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

Signature of tenderer/s_____

Address_____

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, North Western Railway or for him all Railway materials which have been handed over to us against the contract for Tender no. -----

..... dt. 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, North Western 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, North Western 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:**

Part-V

SAFETY PRECAUTIONS

1. MEASURES TO BE ENSURED PRIOR TO START OF WORK

The contractor shall not start any work without the presence of railway supervisors at site.

The methodology in detail for execution of the work at site shall be approved by engineering in charge of the organization executing the work and copies of the same shall be available with contractor's supervisor, railway supervisor, concerned officer of the section in whose jurisdiction the work falls.

Before permitting the execution of certain works like earthwork in formation, bridge work, supply of ballast, transportation of rails, sleepers and other material, track linking, platform/any other civil work close to the running track etc. for new/existing rail lines, gauge conversion, doubling, traffic facility work, ROB/RUB, open lines engineer-in-charge (ADEN/DEN/Sr. DEN/concerned officer) of the section shall ensure that he received the prior intimation/confirmation of the following aspects from Assistant Engineer/Assistant Officer In charge of the work of the executing agency i.e. Construction, S&T, Electrical, Mechanical, Rail Tel, RVNL etc.

Name and address of the contract assigned to execute the work.

- i) Name of the Contractor's supervisor
- ii) Name of the supervisor/assistant engineer/assistant officer of the construction organization/other organizations who are going to be site in charge/in charge of work site.
- iii) List of the number(s) of individual vehicle(s)/ machineries, names and license particulars of the driver(s) proposed to be used by contractor.
- iv) Information regarding location, duration and timings during which the vehicles/machinery are planned to be plied/worked.
- v) The supervisors and operators of the contractor proposed to be deployed at work site which is close to the running track, shall be imparted training by the Railway trainer at contractor own cost about the safety measures to be adopted while working in the vicinity of running track. Further competency certificate to the individual supervisors/operator shall be issued as in **Annexure-XXXII** by a railway officer not below the rank of Assistant level officer who is in charge of site. No supervisor/operator of the contractor shall work or allowed to work in the vicinity of running track who is not possession of valid competent certificate.
- vi) Survey of site by supervisor of contractor and Railways to assess the precautions to be taken at site for working of trains and materials required for protection.
- vii) Written advice to sectional Supervisor and concerned officer about the detailed planning of work including protection of track and safety measures proposed to be adopted.
- viii) A copy of the approved methodology (to be approved by engineer in charge) proposed to be adapted by the contractor with a view to ensure safety of trains passengers and workers.

- ix) Assurance that the methods and arrangements are actually available at site before start of the work and the contractors supervisors and the workers have clearly understood the safety aspects and requirement to be adapted/followed while executing the work.
- x) An assurance register has been kept at site duly signed by both Railway supervisor as well as by the contractor supervisor as a token of their having understood the safety precautionsto be observed at site.

No work shall which is to be done near running track shall commence unless permitted by Railway.

Supplementary site specific instructions, wherever considered necessary shall be issued by the Engineer in Charge

Check list given in Annexure-V of Compendium of instructions on Safety at Work Sites 31.03.2014 shall be used to ensure that all the requisite measures have been taken before start of work.

2.0 PLYING OF ROAD VEHICLES AND WORKING OF MACHINERIES CLOSE TO RUNNING TRACKS

- (i) Normally, the road vehicles shall be run or machinery shall be worked so as not to come closer than 6.0m from center line of nearest running track.
- (ii) The land strip adjacent to running tracks, where road vehicle is to ply or machinery is to work, shall be demarcated by lime in advance in consultation with the Railway's Supervisor. Wooden pegs at interval not exceeding 75mts shall be provided along the line marking as permanent marks. The road vehicles shall ply or machinery shall work so as not to infringe the line of demarcation. Demarcation of the land shall be done as per Annexure II-A. Compendium of instructions on Safety at Work Sites 31.03.2014.
- (iii) If a road vehicle or machinery is to work closer to 6.0m due to site conditions or requirement of work, following precautions shall be observed.
 - a. In no case the road vehicle shall run or machinery shall work at distance less than 3.5m from center line of track.
 - b. Demarcation of land shall be done by bright colored ribbon/nylon cord suspended on 120 cm high wooden/bamboo posts at distance of 3.5 m from center line of nearest running track. Sensors with horns shall be provided as per Annexure II-B of Compendium of instructions on Safety at Work Sites 31.03.2014.
 - c. Presence of an authorized Railway's representative shall be ensured before plying of vehicle or working of machinery.
 - d. Railway's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train. Whistle boards shall be provided wherever considered necessary.
 - e. Lookout men shall be posted along the track at a distance of 800m from such locations who will carry red flag and whistles to warn the road vehicle/machinery users about the approaching trains. Lookout man shall be deputed as per Annexure-III-A of Compendium of instructions on Safety at Work Sites 31.03.2014.
 - f. On curves where visibility is poor, additional lookout men shall be posted.
- (iv) **If vehicle/machinery is to be worked closer to 3.5m from running track.**

Under unavoidable conditions, if road vehicles is to ply or machinery is to work closer to 3.5m due to site conditions or requirement of work, following precautions shall be observed:

- a. Plying of vehicles or working of machinery closer to 3.5m of running track shall be done only under protection of track. Traffic block shall be imposed wherever considered necessary. The site shall be protected as per provisions of Para No. 806 & 807 of P-Way Manual as case may be.
 - b. Presence of a Railway's Supervisor shall be ensured at worksite.
 - c. Railway's Supervisor shall issue suitable caution order to Drivers of approaching train about road vehicles plying or machineries working close to running tracks. The train drivers shall be advised to whistle freely to warn about the approaching train.
- (v) **Precaution to be taken while reversing road vehicle alongside the track.**
The location where vehicle will take a turn shall be demarcated duly approved by Railway's representative. The road vehicle driver shall always face the Railway track during the course of turning/reversing his vehicle. Presence of an authorized Railway representative shall be ensured at such location.
- (vi) Road vehicle shall not be allowed to run along the track during night hours generally. In unavoidable situations, however, vehicles shall be allowed to work during night hours only in the presence of an authorized Railway's representative and where adequate lighting arrangements are made and where adequate precautions as mentioned earlier have been ensured.
- (vii) Road vehicles/machinery/plant etc. when stabled near running tracks shall be properly secured against any possible roll off and always be manned even during off hours.

3.0 EXECUTION OF WORKS CLOSE TO OR ON RUNNING LINES

Any work close to or on running tracks shall be executed under the presence of a Railway's Supervisor only.

- (i) **Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.**
- a) Contractor has deputed trained supervisors in required number at worksites duly certified by concerned officer of the works.
 - b) Drivers of vehicle/operators of the machines have been briefed about the safety and precautions to be taken while moving / working close to traffic.
 - c) Contractor shall ply road vehicles/working of machinery only between sunset and sunrise. In case of emergency where it is necessary to work during night hours sufficient lighting shall be ensured in the complete work area for the safety of public and passengers. Also additional staff shall be posted as necessary for night working and taking safety precautions.
 - d) The contractor shall not change the approved vehicle/machinery and driver/operator for working at site. Contractor shall not induct any new vehicle/machinery and driver/operator without prior written approval of Assistant Engineer/Assistant officer and the list of such changes with numbers of individual vehicle, name and license particulars of the driver shall be given to concerned officer of the section.

- e) Contractor shall ensure that road vehicle/machinery ply/work in a way so that these do not infringe the line of demonstration.
 - f) Lookout men with required safety equipment shall be posted where necessary.
 - g) In unusual circumstances, where operator apprehends danger to track while working truck/machinery near running track, following action shall be taken.
 - a) The contractor/supervisor/vehicle operator immediately advice the situation to railway official/officials of the organization executing the work and assist him/them in protecting the track.
 - b) Protection shall be done as done for other emergencies
 - h) Individual vehicle/machinery shall not be left unattended at site of work. If it is unavoidable and becomes necessary to stable the road vehicle/machinery at site near the running track, these shall be properly secured against any possible roll off and always be manned even during non-working hours. In addition the road vehicle / machinery should be stabled parallel to track only so that incase of failure of any securing arrangement, it may not roll towards the track.
 - i) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimensions do not infringe. Necessary checks shall be exercised by site in charge from time to time.
 - j) While inspecting the worksite check list given in Annexure VI of Compendium of instructions on Safety at Work Sites 31.03.2014 shall be used to ensure that all the requisite measures have been taken during the execution of work.
 - k) During the hours of night, lamps of temporary indicators which are not of reflective type should be lit at sun-set and kept burning till sun rise, where trains run at night.
- (ii) Precaution to be taken to ensure safety of electrical/signal/ telephone cables while excavating near tracks.**
- a. Particular care shall be taken to mark the locations of buried electrical/signal/telephone cables on the plans jointly with S & T/Electric supervisor and also at site so that these are not damaged during excavation.
 - b. Copy of the cable plan should be given to the contractor's authorized representative before handing over the site to start the work.
 - c. Due care shall be taken to ensure that any part of the equipment or machinery or temporary arrangement does not come close to cables while working.
 - d. Joint procedure order No. 17/2013 as mentioned in the Annexure-VII of compendium of instructions on safety at work site dated 31.03.2014 issued by PCE Office shall be followed for undertaking digging work in the vicinity of underground signaling, electrical and telecommunication cables.
- (iii) Precaution to be taken during execution of works requiring traffic blocks.**
- a. Any work, which infringes the moving dimensions or causes discontinuity in the track any activity making the existing track unsafe for passage of trains etc. Shall be started only after the traffic block has been imposed, railway servant in charge of the work is present at the worksite, engineering signals are exhibited at specified distance and flagmen are posted with necessary equipment to man them etc.
 - b. Before closing the work, the track shall be left with the proper track geometry so that the trains run safely and flagmen are kept in the night with safety and track protection equipment to patrol the stretch and take action to protect the track, if so warranted and inform the railway supervisors.
 - c. After completion of work the released sleeper and fittings should be properly stacked away from the track to be kept clear of moving dimensions.

- d. Block shall be removed only when all the temporary arrangement, machineries, tools, plants etc. have been kept clear of moving dimensions.

(iv) Precaution to be taken during execution of works during night.

The work close to running line, generally, shall be carried out only during day hours. At locations, however, where night working is unavoidable, proper lighting arrangement should be made. The engineering indicator boards shall be lighted during night hours as per the provisions of IRPWM. The staff deputed for night working should have taken adequate rest before deploying them in night shift. We can specify duration of night shift from 20.00 hrs to 04.00 hrs. All other safety precautions applicable for day time work should be strictly observed during night working.

(v) Precautions to be taken to ensure safety of workers while working close to running lines.

- a) Any work close to or on running tracks shall be executed under the presence of a Railway's supervisor only.
- b) Precaution to be taken to ensure safety of trains while execution of work close to the running line or on running lines.
 - i) Such works shall be planned and necessary drawings particularly with regard to infringement to moving dimensions shall be finalized duly approved by competent authority before execution of work. The work shall be executed only as per approved procedure and drawings.
 - ii) All temporary arrangements required to be made during execution of work shall be made in such a manner that moving dimension do not infringe.
 - iii) Suitable speed restriction shall be imposed or Traffic block shall be ensured as required.
 - iv) The site shall be protected as per provisions of Para No. 806 & 807 of P.Way Manual as case may be.
 - v) Necessary equipment for safety of trains during emergency shall be kept ready at site.
- c) A 'first aid kit' shall always be kept ready at site.

(vi) Precaution shall be taken for safety of public or passengers, while executing works at locations, used by passengers and public,.

The worksite shall be suitably demarcated to keep public and passengers away from work area. Necessary signage boards such as "Work in progress. Inconvenience is regretted" etc. shall be provided at appropriate locations to warn the public/ passengers. Adequate lighting arrangement of worksite wherever required shall be done to ensure safety of public/passengers during night.

(vii) Precaution to be taken before stacking materials alongside the track to ensure that safety of trains is not affected.

The following precautions shall be taken before stacking the materials along the track for stacking of ballast, rails, sleepers etc.

- a. The sites for material stacking should be selected in advance in such a manner as to ensure that no part of the material to be stacked is infringing the Standard Moving Dimensions. A plan of proposed stacking locations be made and signed jointly by an authorized Railway's representative and contractor's representative.
- b. The selected locations shall be marked by lime in advance.
- c. Presence of an authorized Railway's representative while unloading and stacking shall be ensured.
- d. The material shall be stacked in such a height so as to not to infringe SOD in case of accidental roll off.

(viii) Precaution for handling of departmental material trains

Instructions for working of material trains are contained in Chapter XII of IRPWM which should be brought to the notice of the supervisors and other staff working on the material trains.

In addition to this, following precautions should be taken:

- (a) Issue of 'fit to run' certificate.
As per Para 1207 before a material train is allowed to work, the complete rake should be examined by the Carriage and Wagon staff and a 'fit to run' certificate issued to the Guard.
- (b) As per Para 1208 of IRPWM, a qualified Engineering official should be deputed on the train to ensure working of the material train as the Guard is not qualified to carry out such duties like Supervising of loading and unloading of materials.
- (c) As per Para 1204 of IRPWM, the material train should not be permitted to work during the period of poor visibility due to fog, storm or any other cause except with the permission of the ADEN/DEN of section, Working of the material trains carrying labour should not be permitted between sunset and sunrise except in an emergency.
- (d) While unloading rail panels by the side of the running track, placement of the panels, clear of the maximum moving dimensions should be ensured.
- (e) Unloading of rail panels should be done by a team of trained staff under the active supervision of competent Supervisor/Officer.
- (f) Before unloading of rail panels, site should be prepared by way of leveling/ removing extra ballast, if any, from the crib and shoulder with the objective to ensure requisite lateral and vertical clearances so as to prevent slippage of rail panels due to vibration during the passage of trains.
- (g) Reasonably adequate block should be asked and provided for unloading of the material and the work should be done preferably in day light to avoid shortcut in haste which may infringe the safety requirements.

(ix) SAFETY ASPECTS TO BE OBSERVED WHILE WORKING IN OHE AREA

- a) No electrical work close to running track shall be carried out without permission of railway representative.
- b) A minimum distance of 2m has to be maintained between live OHE wire and body part of worker or tools or metallic supports etc.
- c) No electric connection etc. can be tapped from OHE.
- d) Authorized OHE staff should invariably be present when the relaying work or any major work is carried out.
- e) Power block is correctly taken and 'permit to work' is issued.
- f) The structure bonds, track bonds, cross bonds, longitudinal rail bonds are not disturbed and
- g) If disconnected for the work, they are reconnected properly when the work is completed.
- h) The track level is not raised beyond the permissible limit during the work.

4.0 **PROTECTION OF TRACK DURING EMERGENCY**

(i) Action to be taken when a contractor's supervisor or vehicle operator apprehends any unusual circumstances likely to infringe the track and endanger safe running of trains.

At any time if a contractor's supervisor or vehicle operator observes any unusual circumstances likely to infringe the track and apprehend danger to safe running of track, he shall take immediate steps to advise a Railway official of such danger and assist him in protection of track.

The track shall be protected as under. One person shall immediately plant a red flag (red lamp during night) at the spot and proceed with all haste in the direction of approaching train with a red flag in hand (red lamp during night) and plant a detonator on rail at a distance of 600m from the place of obstruction of BG track after which he shall further proceed for not less than 1200m from the place of obstruction from BG track and plant three detonators at 10m apart on rails. After this he shall display the red flag (red lamp during night) at a distance of 45m from the detonators.

Attempts shall also be made to send an advice to nearest Railway station about the incident immediately.

Protection of the track shall be done as per Annexure-IV of the Compendium of instructions on Safety at Work Sites 31.03.2014

(ii) Action to be taken if train is seen approaching to site of danger and there is no time to protect the track as per guidelines mentioned above.

In such a case the detonators shall be planted on rails immediately at distance away from place of danger as far as possible and attention of driver of approaching train shall be invited by whistling, waving the red flag vigorously, gesticulating and shouting.

(iii) Action to be taken if more than one track is obstructed.

- a. In case of single line protection as above shall be done in both the directions from place of danger.
- b. In case of double line or multiple lines, if other tracks are also obstructed, the protection as above shall be done for other track also.
- c. The protection shall be done in that direction and on that track first on which train is likely to arrive first.
- d. The Contractor's Supervisors, Operators and lookout men shall be properly explained about the direction of trains on running tracks.

(iv) Equipment required for protection of track.

Minimum complement of protection equipment i.e. 10 detonators, 4 red hand flags, 4 red hand lamps, 4 banner flags and whistles etc. shall always be kept ready at worksites for use in case of emergency. Railway will arrange to provide detonators, whereas Contractor shall arrange other equipment at his own cost.

(v) Arrangement of lookout men and competency required for lookout man to warn labour about approaching train.

- a. Contractor will provide lookout men.
- b. The lookout men shall be properly trained in warning to staff at worksite about approaching train.
- c. Only those lookout men shall be provided at site who have been issued with a competency certificate by the Railway's Supervisor.
- d. In case, it is felt necessary to provide lookout men by Railway, the charges for the same as fixed by Railway Administration shall be recovered from Contractor.

5.0 TRAINING TO SUPERVISORS AND OPERATORS OF CONTRACTOR

The Supervisors and Operators of the contractor proposed to be deployed at work site, which is close to the running track, shall be imparted mandatory training by the Railway at site free of cost about the safety measures to be adopted while working in the vicinity of running track. Engineer-in charge of the work shall decide the scale, extent & adequacy of training. In case training is imparted at a recognized Railway training institute, the charges for the same, as decided by Railway, shall be recovered from contractor. A competency certificate to this effect to the individual Supervisor/Operator shall be issued as per **Annexure-XXXII** as given below a Railway Officer not below the rank of Assistant Officer. No Supervisor/Operator of the Contractor shall work or allowed to work in the vicinity of running track that is not in possession of valid competency certificate.

All the labour, materials, tools, plants etc. except detonators, required for ensuring safe running of trains shall be provided by Contractor at his own cost. Wherever lookout men are provided by Railway, charges at the rate of Rs. 500/- per man day shall be recovered from Contractor.

SPECIAL CONDITIONS FOR WORKING OF ROAD CRANES

To ensure safe working of road cranes used in works in connection with provision of ROB/RUB/Subways, following items shall invariable be ensured before putting the cranes to use :-

- i) No machine shall be selected to do any lifting on a specific job until its size and characteristics are considered against the weights, dimensions and lift radii of the heaviest and largest loads.
- ii) The contractor shall ensure that a valid Certificate of Fitness is available before use of Road Cranes.
- iii) Contractors should utilize the services of any competent person as defined in Factories Act, 1948 and approved by Chief Inspector of Factories.
- iv) The laminated photocopies of fitness certificate issued by competent persons, the operators' photo, manufacturer's load chart and competency certificate shall always be either kept in the operator cabin or pasted on the visible surface of the lifting appliances.
- v) All lifting appliances including all parts and gears thereof, whether fixed or movable shall be thoroughly tested and examined by a competent person once at least in every six months or after it has undergone any alterations or repairs liable to affect its strength or stability.

- 7.0** Contractor shall indemnify Railways against any loss/damage to public property, travelling public, railway or his own staff due to his (contractor's) negligence. In case there is any mishap, a fact finding inquiry will be conducted by Railway. A show cause notice will be issued to the contractor, in case he is prima-facie held responsible. Contractor's reply to show cause notice will be considered by the Engineer in Charge before taking final decision. In case contractor is found responsible for the mishap, recovery from him will be affected for only tangible direct losses.

Note: For detailed instructions regarding safe working at works site, the compendium of instructions on safety at work site dated 31-03-2014 issued by PCE office shall be referred which shall be collected from executive after award of contract.

END OF DOCUMENT
