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दक्षिण रेलवे/ SOUTHERN RAILWAY

Traction Distribution Branch

Thiruvananthapuram Division

E-TENDER DOCUMENT NO. V/TRD-OT/318/2026-27

E-TENDER NOTICE NO. V/TRD-OT/02/2026-27 Item 2 Dated 12.06.2026

Tender for the work: Trivandrum Division - Upgradation of overaged earthing systems at TSSs, SPs, SSPs and various stations.

Tender value (Approx.)	Rs.23864953.7
Cost of Tender document	NIL
Earnest Money Deposit	Rs. 477300/-
Date & Time of Closing	14:00 hrs. on 06.07.2026 as allowed in IREPS.
Date & Time of Opening	14:15 hrs. on 06.07.2026 as allowed in IREPS.
Period of Completion	180 days

Issued By:

**Divisional Railway Manager(Traction Distribution),
Thiruvananthapuram Division,
Southern Railway,Thiruvananthapuram – 695 014**

दक्षिण रेलवे / SOUTHERN RAILWAY Thiruvananthapuram Division Traction Distribution Branch E-TENDER NOTICE NO. V/TRD-OT/02/2026-27 Item 2 Dated 12.06.2026 <p>The Senior Divisional Electrical Engineer/Traction Distribution/Thiruvananthapuram, for and on behalf of the President of Union of India, invites E-TENDER for the following work.</p> <p>The prospective tenderers/bidders will be able to submit their offers only on ON-LINE & up to 14:00 hrs. on 06.07.2026 which is the closing time of the tender. Submission of offers manually is not permissible and manual offers if any, received even within the closing time of the tender, will be summarily rejected.</p>		
1	Name of work with its location	Trivandrum Division - Upgradation of overaged earthing systems at TSSs, SPs, SSPs and various stations
2	Approx. cost of the work	Rs.23864953.7
3	Cost of the Tender form	NIL
4	Earnest Money Deposit (EMD)	Rs. 477300/-
5	Completion Period	180 days
6	Last Date & Time of uploading of offers	Up to the closing time of 14:00 hrs. on 06.07.2026 as allowed in IREPS. Tenderers need not be present in the office for tender opening as they can watch the status of opened tenders, on line through IREPS.
7	Opening of tender	Tender will be opened on 06.07.2026 at 14:15 hrs.
8	Period of validity of offer	45 days from the date of tender opening
<p>NOTE:</p> <p>(1). The prospective tenderers/bidders are requested to register themselves with IREPS (Indian Railway Electronic Procurement System), if not done already, for participating in E-Tenders, Registration form is available on IREPS site (Quick link New Vendors/Contractors (E-Tender).</p> <p>(2). Contractors/Bidders are requested to procure Digital Signing Certificate (DSC) Class III or appropriate from Govt. of India, authorized Certifying authority (CCA-Controller of Certifying Authority) for participating in E-Tender & to log into IREPS.</p> <p>(3). Payment of Bid Security, in respect of E-tendering, should be done through net banking or payment gateway only.</p> <p>All tenderers should necessarily furnish required Bid security through online payment only. Tenders received without valid Bid security shall be rejected.</p> <p>For details interested persons may kindly be log on to website at http://www.ireps.gov.in. For other details, terms and conditions, the tenderers are advised to refer to the documents uploaded.</p> <p style="text-align: right;">Divisional Railway Manager, (Traction Distribution), Southern Railway, Trivandrum -14 (For and on behalf of the President of India)</p>		

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Indian Railway Standard “General Condition of Contract”, (Copies of the latest correction slips, if any, can be obtained from the office of Divisional Railway Manager (Traction Distribution), Thiruvananthapuram Division, Southern Railway

INSTRUCTIONS TO TENDERERS FOR E - TENDERS

1.0 BEFORE FILLING UP THE TENDER FORM, PLEASE READ THE

- (a) Instructions to Tenderers for E- Tenders,
- (b) Instructions to tenderers and conditions of tender.
- (c) Annexure to instruction to tenderers,
- (d) Special Conditions of Contract (General),
- (e) Special Condition of Contract (Technical),
- (f) Schedule of work and quantity
- (g) Explanatory instructions for schedule items,
- (h) Special Conditions on variation in quantity in works contract,
- (i) Annexure - I to X,
- (j) Indian Railway Standard "General Condition of Contract", (Copies of the latest correction slips, if any, can be obtained from the office of Divisional Railway Manager (Traction Distribution), Thiruvananthapuram Division, Southern Railway.

THESE ARE AVAILABLE ON THE IREPS WEB SITE www.ireps.gov.in. THE CONTRACTS AND THE SUPPLY WILL BE GOVERNED BY THESE CONDITIONS. YOUR DIGITAL SIGNATURE ON THE E-TENDER FORM WILL BE INDICATIVE THAT YOU HAVE READ AND ACCEPTED ALL THE CONDITIONS AND UNDERTAKE TO ABIDE BY THESE CONDITIONS UNLESS SPECIFICALLY DENIED/MENTIONED BY YOU IN YOUR OFFER.

- 1.1 On behalf of the President of India, The Divisional Railway Manager (Traction Distribution), Southern Railway, Thiruvananthapuram, Thiruvananthapuram Division - 14 (hereinafter referred to as the Purchaser) invites electronic tenders for the supply and erection of items as set forth in the "Notice Inviting Tender" and "Item Details" page attached with each electronic tender "Financial Rate Page Screen".
- 1.2 The Contract, if placed, shall be governed by (i). Instructions to Tenderers for E - Tenders, (ii). Instructions to tenderers and conditions of tender (iii). Annexure to instruction to tenderers, (iv). Special Conditions of Contract (General), (v). Special Condition of Contract (Technical), (vi). Schedule of work and quantity (vii). Explanatory instructions for schedule items, (viii). Special Conditions on variation in quantity in works contract, (ix). Annexure - I to X & (x). General Condition of Contract, (GCC) which are available at the respective links on the Indian Railway e-procurement site www.ireps.gov.in.
- 1.3 It will be presumed that the firms who have submitted the e-bid along with tender cost, have gone through all the terms and conditions of tender thoroughly and accept IRS conditions of contract, until and unless firms specify the deviations from terms and conditions of tender and IRS conditions of contract in their quotations.

2.0 Tender Documents and Tender Cost:

E-Tender Forms shall be issued free of cost to all tenderers. Hence, no amount towards the cost of Tender Form is required to be deposited by the tenderer.

2.1 E-Tender documents consist of:

- (a) Instructions to Tenderers for E - Tenders,
- (b) Instructions to tenderers and conditions of tender.
- (c) Annexure to instruction to tenderers,
- (d) Special Conditions of Contract (General),
- (e) Special Condition of Contract (Technical),
- (f) Schedule of work and Quantity
- (g) Explanatory instructions for schedule items,
- (h) Special Conditions on variation in quantity in works contract,
- (i) Annexure - I to X,
- (j) Indian Railway Standard "General Condition of Contract" - GCC,
- (k) General instructions and conditions,
- (l) Techno-commercial offer form including attachments (if any),

(m) **Financial Offer Form**

- 2.2 Manual offers shall NOT be accepted against E-Tenders, even if they are submitted on the Firm's letterhead / any other form acquired or downloaded, and, submitted before closing time. All such manual offers shall be considered as invalid offers and shall be rejected summarily without any consideration.

3.0 **Filling of E-Tenders**

- 3.1 Tenders should be duly filled in (on the assigned space), duly signed with the digital signature and submitted online. All mandatory fields marked (*) have to be filled by the tenderers.
- 3.2 Tenderers must fill-in the financial offer form and attach scanned copy of necessary documents if any.
- 3.3 All the mandatory fields of the Techno-commercial offer form and Financial offer form (i.e. Rate page) including basic rate, all taxes and duties (as per GST act and rules), or any other taxes / duties which may become applicable during the currency of the contract. The unit of rate shall be as indicated in the tender schedule and cannot be altered by the vendor.
- 3.4 Tenderers should show discount in the rate schedule only, instead of anywhere else in the offer. Discounts not shown at designated place will be summarily ignored for assigning inter-se ranking of offers. Conditional discount will not be considered for adjudging the inter-se position i.e. rate quoted without any conditions attached (viz. Discount / Rebates having linkages to quantity, payment, Inspection agency, destination, delivery place etc.) will only be considered for evaluation purpose. In other words, discounted rates linked to quantities, prompt payment etc. will be ignored for determining inter-se position. Purchaser, however reserves the right to use the discounted rate/ rates considered workable and appropriate, for counter offer to the successful tenderers.
- 3.5 Firm should accept all IRS conditions of contract. Any condition not in conformity with IRS conditions of Contract should be avoided.
- 3.6 Offers should be valid for **45 days** after closing date of tender. Any offer having lesser validity shall be deemed as commercially unresponsive and will be liable to be ignored.
- 3.7 Any financial elements indicated in the remarks column will not be taken for ranking / evaluation and will be summarily ignored. Tenderers are therefore advised not to enter any financial element in the remarks column available in the Financial Rate page.
- 3.8 The Tenderers are required to quote in the same units (Each, MTs, KMs etc.) as given in the tender schedule. Any deviation in this aspect will make the offer to be summarily ignored.

4.0 **Compliance to Special Conditions/ Checklist for Vendor:**

Vendors are advised to complete the "Compliance to special tender condition / Check list" with each offer specifically stating "**yes**" or "**no**" against each special condition / checklist. In the case of a "**no**" they must fill reason for not agreeing with that special condition/checklist in the appropriate box.

5.0 **Bid Submission:**

- 5.1 E-bid along with the relevant documents must be uploaded and digitally signed with the digital signature of the pre-authorized personnel of the tenderer already registered with the IREPS website. Digital signature used must be "Class IIIB with Company Name" obtained from G.O.I. approved Certifying Authority.
- 5.2 Tenderers must look out for NIT for as soon as it is available in IREPS website and Upload their offer well in advance without waiting for closing date and time, to avoid last minute hassles in their own computer system or communication line. Purchaser will not be responsible for non-participation of vendors due to any technical problems on the day of tender closing time.
- 5.3 Only bids received in the Electronic tender box available on the Web Site www.ireps.gov.in will be considered.
- 5.4 The e-procurement system does not permit submission of any offer after the closing date and time of that e-Tender. Hence, there is no scope of any Late / Delayed offers in the online bidding process.
- 6.0 **Tender Opening**
- 6.1 Electronic tender boxes will be opened only after stipulated closing date and time of the tender as shown on the IREPS Website.
- 6.2 E-Tender boxes will be opened by minimum two authorized Railway officials using their secured digital permissions, passwords and digital private keys obtained from GOI approved certifying agencies. The icon will indicate that the tenders have been opened.

- 6.3 Vendor shall not be required to be present in the Railway Board office for any e-Tender opening process. They can obtain totally transparent bid tabulation statement by logging on to the IREPS website after tender opening.
- 6.4 All the participating vendors who have submitted valid electronic offers can view their own offer details as well as the tender tabulation statement after tender opening, from any remote location using internet access by visiting the web site www.ireps.gov.in instantly after opening of the virtual tender box, by clicking on the icon.
- 6.5 The purchaser does not guarantee opening of the tenders immediately after the closing date and time due to reasons beyond its control and hence tenders can be opened after the due date and time also. It will however, be ensured that no offers are submitted after tender closing date and time. Vendors cannot submit / modify any offer or attach any file to it after the closing date and time as stipulated in the tender notice. System does not permit any alteration, modification, deletion of any entry or condition, offered by the tenderer in the e-tender, after closure of the virtual tender box.
- 6.6 The Purchaser or any officer authorized on behalf of the Purchaser does not bind himself to accept the lowest or any other offer and reserves the right to cancel, reduce or divide the contract on more than one source without assigning any reason for such action.
- 7.0 **Bid Security:**

(1)

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

Value of the Work	Bid Security
For all works	2% of the estimated cost of the work

Note:

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

indicated in the tender document within 5 working days before closing date for submission of bids.

- (iii) Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid.
- (iv) The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.
- (v) The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected
- (vi) The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope.
- (vii) The envelope shall be addressed to the officer and address as mentioned in the tender document.
- (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.

8.0 All the tenderers / Contractors have to deposit full earnest money as stipulated for the tender, through online modes as permitted in IREPS application in favour of FA & CAO, Southern Railway, MAS.

9.0 Firms are advised to ensure that address furnished by them for getting digital signature from accredited agencies are same as that furnished to and available with the centralized source approving authorities such as RDSO. They are further advised that while registering themselves in the IREPS website for participation in E-procurement system, the same address as above is filled up, to avoid any vitiation of information and consequent impairment in their credentials.

INSTRUCTIONS TO TENDERERS AND CONDITIONS OF TENDER

(To be read in conjunction with 'Indian Railways Standard General Condition of Contract' which are referred to herein and shall be subject to modifications / addition or suppression by special condition of contract and / or special specifications if any, annexed to the tender forms)

Sub: Trivandrum Division - Upgradation of overaged earthing systems at TSSs, SPs, SSPs and various stations.

*** ^ ***

1. The following documents form part of Tender / Contract:

- (a) Instructions to Tenderers for E - Tenders,
- (b) Instructions to tenderers and conditions of tender.
- (c) Annexure to instruction to tenderers,
- (d) Special Conditions of Contract (General),
- (e) Special Condition of Contract (Technical),
- (f) Schedule of work and Quantity
- (g) Explanatory instructions for schedule items,
- (h) Special Conditions on variation in quantity in works contract,
- (i) Annexure - I to X,
- (j) Indian Railway Standard "General Condition of Contract", (Copies of the latest correction slips, if any, can be obtained from the office of Divisional Railway Manager (Traction Distribution), Thiruvananthapuram Division, Southern Railway.

THESE ARE AVAILABLE ON THE IREPS WEB SITE **www.ireps.gov.in**. THE CONTRACTS AND THE SUPPLY WILL BE GOVERNED BY THESE CONDITIONS. YOUR DIGITAL SIGNATURE ON THE E-TENDER FORM WILL BE INDICATIVE THAT YOU HAVE READ AND ACCEPTED ALL THE CONDITIONS AND UNDERTAKE TO ABIDE BY THESE CONDITIONS UNLESS SPECIFICALLY DENIED/MENTIONED BY YOU IN YOUR OFFER.

2. The approximate cost of the work is Rs. **23864953.7**.
3. **Standard Schedule of Rates and Percentage to be quoted.**

The tenderers have to fill the rates for each item listed under the schedule.

4. **Tender document cost:**

E-Tender Forms shall be issued free of cost to all tenderers. Hence, no amount towards the cost of Tender Form is required to be deposited by the tenderer.

5. **Bid Security**

The Tenderer shall be required to deposit a sum of Rs. **477300.00 (Rupees Four lakhs seventy seven thousand and three hundred only)** towards the earnest money deposit along with the tender, i.e. a sum equivalent to 2% of the approximate estimated cost of the work. This Bid Security is required for the following:

- (a) Subject to exemptions provided under para 5(1)(a) of Part-1 (ITT) of this document, the tender must be accompanied by a Bid Security as mentioned in tender documents, failing which the tender shall be summarily rejected.
- (b) 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 Indian Railway. Should the tenderer fail to observe or comply with the foregoing stipulation, the amount deposited or Bank guarantee bond submitted as Bid Security for the due performance of the above stipulation, shall be forfeited to the Railway.

- (c) If his tender is accepted,
- (i) the Bid Security mentioned in sub para(a) above deposited in cash through e-payment gateway will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract;
 - (ii) the Bid Security mentioned in sub para(a) above submitted as Bank guarantee bond, will be encashed as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract.
- The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation to the Bid Security that may happen thereto while in their possession, nor be liable to pay interest thereon.
- (d) In case Contractor submits the Term Deposit Receipt/Bank Guarantee Bond towards either the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security so retained as per sub para(c) above, to the Contractor.
6. The tenderer shall keep the offer open for a minimum period of **45 days** from the date of opening of the tenders within which period that tenderer cannot withdraw his offer subject to the period being extended further if required by mutual agreement from time to time. Any contravention of the above condition will make the tenderer liable for forfeiture of the Bid security.
 7. The successful tenderer shall be required to furnish the necessary security deposit to the extent as required under clause No. 16 of the General Conditions of Contract. The security deposit will be recovered from the running bills as mentioned under clause 14 of the special condition of contract (General). No interest will be allowed on the deposit in cash. The security deposit is returnable after completion of the guarantee period from the date of installation formally taken over by Railways after the inspection and tests and satisfying all requirements given in the annexed specification.
 8. Payment for the work done by the contractors will be made after the inspection and tests by an authorized representative of the Railway on completion of the works and in the manner stated in clause No. 45 of the general conditions of the contract.
 9. In all matters of dispute, the decision of the Divisional Railway Manager, Southern Railway, Trivandrum-14 will be final.
 10. The Railway administration will not assist the contractor in granting or obtaining the import license for any item involved in the work. The materials offered should have as such indigenous components as possible.
 11. **Statement on Employment/Partnership etc. of Retired Railway Employees (Mandatory)**

The Contractor shall abide by the instructions contained in the Clause No.16 of Annexure I of Part I and Clause No. 59(9) of Part II of Indian Railways Standard General Conditions of Contract, April 2022.

If the information required as per the above clause has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of Standard General Conditions of Contract. **In case, no retired railway employees are associated with the firm, a statement as per the sample format at Annexure -IV of tender document, to be furnished by the tenderer.**

12.
 - (a) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works that all conditions liable to be encountered during the execution of the works are taken into account and that the rates to be entered in the tender forms are adequate and all inclusive to accord with the provision in clause No. 33 of the general conditions of the contract for the completion of the works to the entire satisfaction of the engineer.
 - (b) If the tenderers deliberately given wrong information in his tender or creates circumstances for the acceptance of his tender, Railway reserves the right to reject such tender at any stage.
 - (c) If any tenderer desires, prior to tendering to inspect the building/buildings or installations where the work is to be executed, he may do so by arrangement with the Senior Divisional Electrical Engineer, Traction, Southern Railway, Trivandrum-14. Any further information required regarding the tender may be obtained from him on any working day during office hours but once the tender has been submitted, no representatives of the tendering firm will be granted an interview for discussing the matters connected with the tender

13. The Southern Railway General Conditions of Contract (GCC) (04/2022) or its latest version and IRS conditions of contract will be binding on the contractor and the same may be perused before quoting.
14. The submission of the tender will be deemed to imply that this memorandum and all the documents enclosed have been studied and understood that the tenderer is aware of the full scope of the work to be done and the Railways conditions affecting the execution.
15. The tender offers may be submitted including the technical details of the offers, conditions and the price schedule, as required in the tender schedule.
- N.B. If any of the conditions are not acceptable, it should be specifically brought out in the covering letter accompanying the tender and not in the tender documents. No deviations to Railways standard conditions will be accepted.
16. Execution of Contract Document: Indian Railway has launched a web-enabled application IR-Works Contract Management System (IR-WCMS), designed and developed by CRIS (Centre for Railway Information Systems) and it has been hosted on IRCEP (<https://ircep.gov.in>). The application covers all the activities associated with contract handling which inter-alia include the submission of Performance Guarantee, Preparation of signing of the contract agreement, Billing and its integration with IPAS for payment, NS site preparation and sanction, Variation Statement preparation and sanction, Extension of DOC, Release of PG/SD & Correspondence between Railway with the contractor etc. The Tenderer whose tender is accepted shall be required to sign the agreement shared through the IRWCMS duly using their digital signature certificate used for bidding in IREPS.
17. The tenderer should complete the work within **180 days** from the date of issue of acceptance letter.
18. Eligibility Criteria -

Tenderers are required to satisfy the following Eligibility Criteria.

Sl. No.	Clause	Description	Criteria
1	Technical eligibility	The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:	<p>(i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or</p> <p>(ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or</p> <p>(iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender.</p> <p>Note: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.</p> <p>In case tenderer submits work</p>

			<p>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><u>Single similar nature of work is defined as</u> "Any Overhead Equipment (OHE)/ Power Supply Installations (PSI)/ Auxiliary Transformer (AT) work on 25kV AC Railway Traction for new line electrification or addition and alteration involving supply, erection, testing and commissioning of any Railway System in India carried out on Zonal Railways/ Construction/RE/RVNL works or Public listed Company subject to conditions in the GCC with regard to Public listed companies vide Para 10.1 of GCC April 2022."</p>
2	Financial eligibility	<p>The tenderer must have minimum average annual contractual turnover of V/N or V, whichever is less; where</p>	<p>V=Advertised value of the tender in crores of Rupees</p> <p>N=Number of years prescribed for completion of work for which bids have been invited.</p> <p>The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.</p> <p>The tenderers shall submit requisite information as per Annexure-VIB of GCC April 2022, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p>

Explanation for Eligibility Criteria:

1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender.

2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization, but final bill is pending, such work shall be considered for fulfillment of credentials.
4. In case of completed work, the value of 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) of GCC, April 2022, the same shall be considered for the purpose of fulfillment of credentials.
6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
7. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3×0.2 * value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm (e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
9. In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.
13. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.

15. In case company A is merged with company B, then company B would get the credentials of company A also.]

NOTE:

1. List of works completed in the last seven qualifying financial years (as the case may be/as applicable) giving description of work, organization for whom executed, approximate value of contract at the time of award, date of award, date of scheduled completion of work, date of actual start, actual completion and final value of contract should be given in respective FORMs.
2. All documents in support of fulfillment of eligibility criteria shall be furnished along with the tender offer and no new document in support of eligibility criteria shall be called for or entertained after opening of tender.
3. Railway reserves the right to verify all statements, information, and documents submitted by the bidder in his tender offer, and the bidder shall when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway there under.

In case of any wrong information submitted by the tenderer, the contract shall be terminated, Bid Security, Performance Guarantee(PG) and Security Deposit(SD) of contract forfeited and agency barred for doing business on entire Indian Railways for 2(two) years.

ANNEXURE TO INSTRUCTION TO TENDERERS

1. If the Tenderer/Contractor finds any discrepancy or omission in the tender documents, he should at once notify the same to the Senior Divisional Electrical Engineer (Traction), Southern Railway, Trivandrum.
2. If any of the conditions are found to be contrary to that specified elsewhere in the tender documents, the conditions specified under the special conditions of the contract will be final and binding on the contractor.
3. The offer of the Tenderer shall be valid for a period of **45 days** from the date of opening of tenders.
4. The Tenderer may, at his discretion, inspect the site of work at his own cost, acquaint and satisfy himself with the site conditions and facilities available, before submitting the tender.
5. The Divisional Railway Manager, Southern Railway Trivandrum-14 reserves the right to accept the tender in whole or in part or reject the tenders without assigning any reason.
6. Completion period: The successful Tenderer shall complete the entire works within **180 days** from the date of award of contract. Further extension of contract if required, is subject to Cl. No. 17 of General Conditions of Contract (latest).
7. The contractor is liable to pay the taxes as stipulated in the GST Act and Rules and also should furnish the details of GST Registration.
8. The bidder has to quote the rates inclusive of GST and Power Block charges. No separate payment will be made by Railways against GST and PB charges.
9. Income Tax and all other taxes, if any, as applicable will be deducted from Contractor's bill at the percentage notified by the government from time to time. GST will be levied as per GST Act and Rules.
10. The contractor/Tenderer may peruse the tender schedule enclosed. If any of the items essentially required for execution of the work but not provided either in the schedule, the same shall be provided by the contractor without raising any extra claims.
11. The tenderers while submitting their offer shall enclose scanned copy of documents in support of having under taken similar work.
12. The word 'Purchaser' specified in the explanatory instructions for the items of work described in the schedule of work means the president of India acting through the Divisional Railway Manager (Traction), Southern Railway, Trivandrum.
13. The contractor is liable to pay the taxes as stipulated in the GST Act & Rules and also should furnish the details of GST to be deducted from the contractor's bill.
14. The contractor has to submit the EPF code as per the EPFO Act and also have to submit a statement in this regard.
15. The contractor should have a valid electrical contractor license for MV/HT of voltage equal or more than 25 kV from the concerned statutory authority of any states of India. The electrical license should be in the name of the firms or in the name of any authorized person of the tenderer's firm. It must be ensured that the validity of electrical license should be valid during the entire contract period duly renewing at appropriate time for extending validity. If the tenderer hired the electrical licensee, authorization for the same should be submitted.

SPECIAL CONDITIONS OF CONTRACT (GENERAL)

1. This is a works contract. The special conditions of contract should be read in conjunction with 'Indian Railways Standard General Condition of Contract' which are referred to herein and shall be subject to modifications / addition or suppression by special condition of contract and / or special specifications if any, annexed to the tender forms.
2. No claim whatsoever will be entertained by the Railway on account of any delay or hold up of the works arising out of delay in supply of drawings, changes, modifications, alterations, additions, omissions in the site layout plans or detailed drawings or designs and or late supply of such materials as are required to be arranged by the Railway or due to any other factor on Railway accounts.
3. No claim for idle labour and or idle machinery, etc on account will be entertained. Similarly no claim shall be entertained for business loss or any such loss.
4. The rates/percentage above/at par/below quoted shall be filled in by the tenderers.
5. In case of accidents/natural calamities involving human lives, Railway reserves the right to draft vehicles and equipments of contractors on hire basis. The hiring of vehicles/Equipments will be operated as Non-Scheduled items as per the existing norms and payment will be made accordingly.
6. Guarantee/Warranty:
 - a) The Contractor supply items, listed in Annexure-III, shall have 24/30 months as per IRS conditions of contract and installation/erection for a satisfactory working period of 18 months from the date of installation/erection (or) 24 months from the date of commercial operation or from the date of Provisional Acceptance of each section by the purchaser whichever is earlier. The guarantee for spares should be coincident with the guarantee for erected equipment.
 - b) For the period of guarantee the contractor have an experienced Engineer and necessary equipment to attend to any defective installation resulting from defective erection and/or defects in the equipment supplied by the contractor. This engineer shall not attend to rectification of defects which arise out of normal wear and tear and come within the purview of routine maintenance work. The Contractor shall bear the cost of modifications, additions or substitution that may be considered necessary due to faulty material, design or workmanship for the satisfactory working of the equipment. The final decision shall rest with the Divisional Railway Manager (Traction), Southern Railway, Trivandrum or his successor (s)/Nominee.
 - c) During the period of Guarantee/Warranty the contractor shall be liable for the replacement at site of any parts which may be found defective in the fittings & Components, arising from faulty design, materials, workmanship or negligence in any manner in the part of the contractor provided always that such replaced items are promptly returned to the contractor if so required by him at his (contractor's) own expenses. In case of type defects in contractor's equipment and components detected during guarantee period, contractor shall replace all such items irrespective of the fact whether all such cost of repairs carried out on his behalf by the purchaser at site. In such a case, the contractor shall be informed in advance of the works proposed to be carried out by the purchaser.
 - d) If it becomes necessary for the contractor to replace or renew any defective portion of the fittings or components under the para aforesaid then the provision of the said para shall also apply to the portions of the fittings & components so replaced and renewed until the expiry of six months from the date of such replacement or of renewal or until the end of the above mentioned period, whichever is later. Such extension shall not apply in case of defects of a minor nature the decision of the Divisional Railway Manager (Traction), Southern Railway, Trivandrum or his successor/nominee being final in the matter. If any defect be not remedied within a reasonable time during aforesaid period the purchaser may proceed to do the work at the contractor's risk, and expense, but without prejudice to any other rights and remedies which the purchaser may have against the contractor in respect of such defects or faults.
 - e) Any materials, fitting or components supplied shall also be covered by the provisions of this paragraph. The liability of the contractor under the guarantee/warranty will be limited to re-supply of equipments, components and fittings. Such re-supply shall be effected at the contractor's depot or in the event of closure of the depot at the stores depot of the Engineer-in-charge of maintenance of overhead equipment of the section covered by the contract.

- f) In the case of materials, components, fittings and equipments supplied by the purchaser, no liability will rest on the contractor for failures on account of defective materials or workmanship and for any consequential damages. Such defective materials if not yet erected on line will be returned by the contractor to the purchaser and quantities will be considered for the purpose of final reconciliation over and above allowance.
7. **Payment:** 100% payment on all items shall be payable against the part bills for completed portion of works.
8. Income Tax and all other taxes, if any, as applicable will be deducted from Contractor's bill at the percentage notified by the government from time to time.
9. The bidder has to quote the rates inclusive of GST and Power Block charges. No separate payment will be made by Railways against GST and PB charges.
10. The contractor is liable to pay the taxes as stipulated in the GST Act and Rules and also should furnish the details of GST registration.
- (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 form are adequate and all inclusive to accord with the provisions in Clause 37 of the Standard General Condition of Contract for the completion of works to the entire satisfaction of the Engineer.
 - (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 Governments and as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.
 - (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.
 - (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.
11. The contractor has to submit the EPF code as per the EPFO Act and also have to submit a statement in this regard.
12. Provision of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996":
- The tenderers for carrying out any construction work must get themselves registered from the Registering Officer under Section-7 of the "Building and Other Construction Workers Act,1996" and rules made thereto by the concerned State Govt. and submit certificate of Registration issued from the Registering Officer of the concerned State Govt. (LabourDept.). As per this Act, the tenderer shall be levied a cess @ 1% of the cost of construction work, which would be deducted from each bill."
13. Tenderers should furnish the details in Electronic Fund transfer mandate form attached (Annexure-I) with the tender document for arranging payments/refund of EMD to unsuccessful tenders through EFT/RTGS.
14. **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.
- (i) 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.

(ii) 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 upto 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.

(iii) **Refund of Security Deposit:** Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor after the following:

- (a) Final Payment of the Contract as per clause 51.(1) and
- (b) Signature of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and
- (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50.(1), in Case applicable.

(iv) **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.

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.

15. Performance Guarantee: The procedure for obtaining Performance Guarantee is outlined below:-

- a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and 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.
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. The failed Contractor shall be debarred from participating in re-tender for that work.
- 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 15(h) in any of the following forms :-
 - (i) A deposit of Cash;
 - (ii) Irrevocable Bank Guarantee (as per the attached format);
 - (iii) Insurance Surety Bond as per Annexure XVII -Advance correction slip 9 of GCC

Note: In case of extension of Date of Completion, selected bidder needs to submit extended Surety Bond/Fresh Insurance Surety Bond/fresh Performance Security, in any form as given above, before expiry of existing Insurance Surety Bond.

- (iv) Government Securities including State Loan Bonds at 5% below the market value;
- (v) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India;
- (vi) Deposit in the Post Office Saving Bank;
- (vii) Deposit in the National Savings Certificates;
- (viii) Twelve years National Defence Certificates;
- (ix) Ten years Defence Deposits;
- (x) National Defence Bonds and
- (xi) Unit Trust Certificates at 5% below market value or at the face value whichever is less.

Also, FDR in favour of FA&CAO (free from any encumbrance) may be accepted.

- c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.
- d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.
- e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.
- f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
- g) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
 - (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
 - (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.
 - (iii) The Contract being determined or rescinded under clause 62 of these conditions.
- 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%

- 16. **Completion period:** The contractor should complete the entire works within **180 days** from the date of award of the contract. Further extension of contract if required, is subject to Cl. No. 17 of General Conditions of Contract (latest).
- 17. **Arbitration:** Settlement of disputes and Arbitration in respect of this contract will be as per Cl. No. 63 & 64 of the General Conditions of Contract – as amended time to time. (Refer Advance correction slip 10 of GCC (April 2022)).
- 18. **Vitiation Clause:** As a result of variations, a contract shall be considered “vitiating” only when, the following percentage variation in contract value between tenderers are noticed to have been exceeded.

SN	Value of contract	Percentage difference between present contractor and new L-1 as a result of variation. (percentage shall be calculated with base as the revised contract quantities multiplied by the rates of the present contractor)
1	Small value contracts (Tender value less than Rs.50 lakhs)	10

2	Other than small value contracts (Tender value equal to or more than Rs.50 lakhs)	5
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18.1 When the percentage difference between present contractor and new L-1 is noticed as becoming beyond the values specified above, the following action shall be taken.

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

18.2 The above shall be regulated as under:

- (a) The case shall be decided by the tender accepting authority (competent for the revised quantity) and shall not be treated as a case of single tender. The provisions of Railway Board letter no. 2007/CE.I/CT/18/Pt.XII dated 31.12.2010 hereby gets superseded.
- (b) These instructions will be similarly applicable to earning contracts with H-1, H-2 substituted for L-1, L-2 and so on.
- (c) Executives while executing the work shall make all efforts to ensure that no vitiation takes place in normal circumstances. Vitiations should be an exception rather than a routine affair. Efforts should be made to invite bids on the basis of percentage above/below/at par.
- (d) Vitiations should always be computed with respect to the items, rates, quantities and conditions as available at the time of tender opening and subsequent changes/additions by way of new items will not be counted for computing vitiation.

19. Determination of contract: The clause nos. 61 to 62 of GCC for Works contract with upto date correction slip of the latest version shall be applicable for the purpose of determination of contract. In case of failure of contract at any stage, the contract will be terminated under clause no. 62 of GCC and the EMD and Performance Guarantee will be forfeited.

20. **This Tender schedule is binded by Indian Railway Standard "General Condition of Contract" - GCC (04/2022) read with CS - 11 or latest.**

21. (i) 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 Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration in the portal within 7 days of receipt of such request.
 - (b) Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LoAs issued in his favour.
 - (c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LoA) / Contract Agreements on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.
 - (d) After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyan 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.
- (ii) While processing payment of any 'On Account bill' or 'Final bill' or release of 'Advances' or 'Performance Guarantee / Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till ____Month, ____Year."

22. Payment to the contract labourers should be made through bank and proof of salary paid to them duly ensuring the latest minimum wages, should be submitted along with the bill.
23. Inclusion of 'Letter of Credit' as Mode of Payment in Works Tenders or Service Tenders
- (i) For all the tenders having advertised cost of Rs 10 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement.
 - (ii) This option of taking payment through 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.
 - (iii) The option so exercised, shall be an integral part of the bidder's offer.
 - (iv) The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.
 - (v) In case tenderer opts for payment through LC, following shall be the procedure to deal release of payment through LC:
 - (a) The 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 2018-19. SBI branches where the respective Railway Accounts Office has its Account (local SBI branch) will be the issuance/reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.
 - (d) The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the request of the contractor. The value of LC to be opened initially as well as extended thereafter shall be 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 Railways by reason of any act or omission of the contractor, his agents or employees, in relation to the Letter of Credit (LC). All sums payable/borne by Railways on this account shall be considered as reasonable compensation and paid by contractor.
 - (f) The LC terms and conditions shall inter-alia provide that Railways will issue a Document of Authorization (format enclosed as Annexure V) 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 Railways.
 - (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 w.r.t the digitally signed Document of Authorization received from Railway Accounts Office, release the payment to contractor's bank (advising bank) for crediting the same to contractor's account.

(n) Any number of bills can be dealt within one 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. Provision of Efficient and Competent Staff at Work Sites by the Contractor:

24.1 The Contractor shall place and keep on the works at all times efficient and competent staff to give the necessary directions to his workmen and to see that they execute their work in sound & proper manner and shall employ only such supervisors, workmen & labourers in or about the execution of any of these works as are careful and skilled in the various trades.

24.2 The Contractor shall at once remove from the works any agents, permitted subcontractor, supervisor, workman or labourer who shall be objected to by the Engineer and if and whenever required by the Engineer, he shall submit a correct return showing the names of all staff and workmen employed by him.

24.3 In the event of the Engineer being of the opinion that the Contractor is not employing on the works a sufficient number of staff and workmen as is necessary for proper completion of the works within the time prescribed, the Contractor shall forthwith on receiving intimation to this effect deploy the additional number of staff and labour as specified by the Engineer within seven days of being so required and failure on the part of the Contractor to comply with such instructions will entitle the Railway to rescind the contract under Clause 62 of these conditions.

25. Deployment of Qualified Engineers at Work Sites by the Contractor:

In terms of provision of new clause 26A of GCC, the contractor shall employ the following qualified engineers during execution of the allotted work:

- a) One qualified graduate engineer when cost of work to be executed is Rs.200 lakhs and above.
- b) One qualified diploma holder engineer when cost of work to be executed is more than Rs.25 lakhs, but less than Rs.200 lakhs.

26. In case the Contractor fails to employ the qualified Engineer, as aforesaid in Para 25 above, he in terms of provision of clause 26A.2 of GCC, shall be liable to pay an amount of Rs.40000/- and Rs. 25000/- for each month or part thereof for the default period for the provisions, as contained in Para 25(a) and 25(b) above respectively.

27. Provisions for deployment of qualified engineers (Graduate Engineer / Diploma holder Engineer) shall be for the values as prescribed above. However, for the works contract tenders, if it is considered appropriate by the tender inviting authority, not to have the services of qualified engineer, the same shall be so mentioned in the tender documents by the concerned executive with the approval of the officer not below the level of SAG officer, for reasons to be recorded in writing.

28. Any request for change in the bank account during the contract period shall be accompanied with a No Objection Certificate (NOC) from the bank, originally mentioned in the offer.

29. The contractor must submit police verification certificates for all contractual staff employed by him before commencing the work.

30. After opening of the bid, any document pertaining to the constitution of the Firm/JV/Society etc. shall neither be asked nor be entertained/ considered.

Chapter - 5

SPECIAL CONDITIONS OF CONTRACT (Technical)

1. This is a works contract. The special conditions of contract, should be read in conjunction with the Indian Railways Standard General Conditions of Contract – {GCC (04/2022) and IRS Conditions of Contract}. **If there is any contradiction in the conditions provided in this document and GCC, then GCC will prevail.**
2. The work should be executed strictly as per the standard design manual & specification procedure laid down by the original equipment manufacturer (OEM). In this connection, the contractor may approach the OEM, but no extra payment will be made for this.
3. The contractor should have the expertise and all kinds of special tools / equipments for execution of the work as per the schedule.
4. The work is to be executed without causing damage to the existing OHE / other railway properties at site. Defect / damages caused, if any, due to contractor's work at site, it should be rectified at the cost of the contractor.
5. The work should be carried out in the presence and under the guidance of the authorized representative of the Senior Divisional Electrical Engineer/TRD, Southern Railway, Thiruvananthapuram – 14 (Sr.DEE/TRD/TVC).
6. The contractor has to make available all the tools and plants required for executing this work.
7. The contractor shall obtain special permit from Railway to enable his workers to work and to cross the tracks at the site of work and to take in/take out materials from Railway premises. (Original ID card should be produced during obtaining special permit from Railway for each of the contractors staff)
8. The execution of the work should in no way impede normal running of train services or shunting operation.
9. The works shall be executed based on approved Layout plan issued by Railways.
10. All dismantling & erection works should be done under the supervision of railway representative. Contractor supply Materials shall be purchased from approved Railway suppliers. Size of materials should be based on concerned RDSO drawings. (Suppliers Invoice / Material inspection certificate by RITES / consignee inspection must be enclosed for material acceptance). Inspection charges will be paid by Railways.
11. All the materials proposed to be used for this work shall be as per the approved samples and shall conform to the relevant IS specification.
12. The contractor has to make his own arrangements for transporting men & materials to the site of work. Railway supplied materials, if any, except OHE structures, will be supplied at nearest PSI depot only.
13. No material price variation or wages escalation on any account whatsoever and compensation for "Force Majeure", etc. shall be payable under this contract.
14. No claim whatsoever will be entertained by the Railway on account of any delay or hold up of the works arising out of delay in supply of drawings, changes, modifications, alterations, additions, omissions in the site layout plans or detailed drawings or designs and or late supply of such materials as are required to be arranged by the Railway or due to any other factor on Railway accounts.
15. No claim for idle labour and or idle machinery, etc on any account will be entertained. Similarly no claim shall be entertained for business loss or any such loss.
16. In case of accidents / natural calamities involving human lives, Railway reserves the right to draft vehicles and equipments of contractors on hire basis. The hiring of vehicles / equipments will be operated as Non-Scheduled Items as per the existing norms and payment will be made accordingly.
17. In case of any OHE/Electrical/Signal/Telecommunication cable damaged during the execution of work or during the warranty maintenance period by the contractor, the cost of the loss (either direct loss or indirect loss) caused by the damage is to be borne by the contractor. The direct loss includes the cost of the cable damage including the cost of restoration and indirect loss may include the

resultant loss caused due to the dislocation in traffic and cost of other equipments damaged which have direct connection with the damaged cable etc.

18. **Penalty for cable cut:** Signal/Telecom/OFC/Electrical cable should not be damaged while executing the track crossing/trenching/cable laying work and the work shall be executed after obtaining approved cable route plan/Track crossing plan from the executed department. Contractor shall submit the tentative cable route plan/track crossing plan for the particular work and approval of the same shall be obtained before the commencement of the work. If any damages to cables during the execution of work, penalty will be levied as per the JPO issued vide Railway Board Telecom circular no. 17/2013, dated 24.06.2013 (Copy attached) and in addition to which the cost of damages for the same will be bound by the contractor.
19. The work should be carried out without any interference to the normal working of Railway track & structure. The contractor shall be responsible for any loss to Railway and public property and if it occurs during the course of execution, then the Railway reserves the right to have the damages made good by the contractor.
20. The contractor has to make his own arrangements for storing the materials proposed to be utilized by him. No responsibility will be taken by the Railways for the loss of contractor's materials.
21. The directions issued by the Sr.DEE/TRD/TVC or his authorized representative will be binding on the contractor for the satisfactory completion of the work.
22. The quantities of materials indicated in the enclosed schedule are only approximate and is subject to variation. The Senior Divisional Electrical Engineer (Traction)/TVC will have the powers to increase/decrease the quantity as per Chapter 8 of Tender Document.
23. **Standard rates of Drawings** The cost of each drawing indicated in the tender schedule is according to the size of the drawing and the rates are indicated below (Ref: Dy. CE/CN/ MTP/MS letter No. E.252/P/Vol. II dated 15/03/99).

Sl. No.	Size of drawing	Unit	Rate in Rs.
1	A4 (297mm X 210mm)	No	20/-
2	A3 (420mm X 297mm)	No	40/-
3	A2 (594mm X 420mm)	No	80/-
4	A1 (841mm X 594mm)	No	160/-
5	A0 (1189mm X 841mm)	No	320/-

24. **Mode of payment:** No advance payment will be made against this contract. Payment will be arranged through the Senior Divisional Finance Manager, Southern Railway, Trivandrum - 14 for completed and finished work. Procedure for claiming payment will be as per provision contained in Indian Railway Standard General Conditions of Contract (latest).
25. **On Account Payment:** On Account Payment is not applicable.
26. **Quality Assurance of materials:**
 - (a) All the equipments, materials, fittings and components will be subject to quality control program of the manufacturer, being part of the quality assurance program of the contractor. The materials may also be inspected by the Senior Divisional Electrical Engineer/TRD/S.Rly./Trivandrum (Sr.DEE/TRD/TVC) or his authorized representative at the manufacturers works or as desired by Sr.DEE/TRD/TVC. Sr.DEE/TRD/TVC or his authorized representative will have the right to be present during all the stages of manufacture and shall be accorded free of charge all reasonable facilities for inspection and testing as well as to examine the stage inspection report of the manufacturer in addition to the quality audit which the contractor may institute as a part of his program so as to satisfy himself that the materials are in accordance with specifications, approved drawings and designs and Railways prescribed quality assurance standards.
 - (b) The following ledgers/registers shall be maintained as per the formats attached as Annexure - VI to X. These registers are to be maintained at site and should be produced during inspection by officials.
 - (i) Site order book,
 - (ii) Hindrance register,
 - (iii) Material Transaction Register
 - (iv) Cube testing register &,
 - (v) Daily Progress & Labour Register.

27. **Inspection:** All materials coming under the contractor's scope of supply, shall be inspected by RITES organization for value more than Rs. 5 lakhs, in addition to manufacturers test certificate with sample checks to ensure proper quality of goods. In special cases (to be indicated by the tenderer). Where the inspection involves technical expertise of facility, i.e., ordinarily not available with the consignee, Rites inspection may be insisted upon, even if the value of purchase order does not exceed Rs. 5 lakhs. As per the extant standing instruction / policy all OHE items should be inspected only by Rites/RDSO. Inspection charges shall be borne by Railways.
28. All the Released/Retrieved materials shall be handed over to Railway after stacking at a convenient place near Railway station premises / Electrical Traction Depots as directed by the Engineer in charge at free of cost. For every contract, a dumping spot should be identified as per the instruction of SSE/TRD and the debris should be dumped there only. While submitting each bill by the contractor, a certificate should be submitted by the contractor that the debris for the work done till the stage of payment has been cleared and dumped at the specified site. This certificate will be countersigned by the concerned Railway supervisor and is subjected to check by Officers as per the provision of test check-
29. **Provisional Acceptance Certificate (PAC):** Provisional Acceptance of the equipments installed at each location/section will take effect only after successful completion and energisation in the respective location/section.
30. **Final Acceptance:**
The final acceptance of the entire equipment installed shall take affect from the date of expiry of the period of guarantee.
31. Special Conditions from the contractors will not be entertained or accepted. If the same are specified, his tender is liable to be rejected.
32. If any material other than those specified in the Annexure - II is supplied by Railway either at the Contractor's request or suomoto in order to prevent any possible delay in the execution of the works likely to occur due to the Contractor's inability to make adequate arrangement for supply thereof or otherwise, recovery will be made from Contractor's bill at the issue rate or market rate prevailing at the time of supply, whichever is higher, plus 5% on account of initial freight and 2% on account of incidental charges together with supervision charges at 12.5% of the total cost inclusive of material, freight and incidental charges or schedule rate, whichever is higher. Freight between the Railways source of supply and site of work shall be to the Contractor's account. If, however, the material required by the Contractor is not available in Railways stock or the Railway decides not to supply the same, be that for whatever reason, the Railways shall not be bound to arrange for the supply at cost quoted above or at any other cost nor will this fact be accepted as an excuse for delay in execution of works.
33. If the contractor runs short of materials and such materials are available in Railway's stock, the material may be supplied by the Railway on loan to the contractor who will return these on receipt of supplies OR within ONE year OR before the issue of last PAC whichever is earlier. The value of the loaned material would be computed by Railways based on schedule rates and equivalent amount would be withheld from the subsequent progress payments.
34. The requirement of materials given in the schedule is indicative only. The contractor has to work the actual requirement at each item based on the approved layout plan. Such material assessment statement (MAS) shall be submitted for the approval of Sr.DEE/TRD/TVC before initiate procurement action. The purchase order for procurement of materials shall be issued only after receiving the approval from Sr.DEE/TRD/TVC on the material assessment statement (MAS).

SCHEDULE OF WORK**SUMMARY OF PRICES**

This schedule shall be read in conjunction with the explanatory notes specified in special conditions for detailed description. The rates given below are the standard schedule of rates. The tenderer should quote individual rates for the items

Schedule for: **Trivandrum Division - Upgradation of overaged earthing systems at TSSs, SPs, SSPs and various stations**

Sl.No	Description	Qty.	Unit	Rate (Rs.)		Amount (Rs.)		
				Supply	Erection	Supply	Erection	Total
SW I	Earthing							
1	Supply of single Earth electrode at TSS	100	Nos	4520	0	452000	0	452000
2	Erection of single Earth electrode at TSS	100	Nos	0	1479	0	147900	147900
3	Supply of single Earth electrode at SP SSP	355	Nos	4223	0	1499165	0	1499165
4	Erection of single Earth electrode at SP SSP	355	Nos	0	1091	0	387305	387305
5	Supply of single Earth electrode at AT and station	275	Nos	4850	0	1333750	0	1333750
6	Erection of single Earth electrode at AT and station	275	Nos	0	1715	0	471625	471625
7	Supply of earth bus	4125	m	254	0	1047750	0	1047750
8	Erection of earth bus	4125	m	0	120	0	495000	495000
9	Supply of Copper strip for earthing	150	m	818	0	122700	0	122700
10	Erection of Copper strip for earthing	150	m	0	190	0	28500	28500
11	Excavation, refilling and consolidation of trench in all kinds of soils, soft rocks	1552	Cum	0	998	0	1548896	1548896
12	Loading, unloading and laying of rail (52/60 Kg)/OHE mast which is approximately 13metres in length or 9m	52	Nos	0	4089	0	212628	212628
13	Supply of earth bus (50x6 mm galvanised flat) laid exposed	3544	m	262	0	928528	0	928528
14	Erection of earth bus (50x6 mm galvanised flat) laid exposed	3544	m	0	80	0	283520	283520
15	Supply of earth bus (50x6 mm galvanized	1000 0	m	262	0	2620000	0	2620000

	flat) laid in the ground							
16	Erection of earth bus (50x6 mm galvanised flat) laid in the ground	1000 0	m	0	100	0	1000000	1000000
17	Drilling of holes on rails	208	Nos	0	34.05	0	7082.4	7082.4
18	Supply of earth system: Earth leads 75mm X 8 mm galvanised steel laid in the ground.	1040	m	516	0	536640	0	536640
19	Erection of earth system: Earth leads 75mm X 8 mm galvanised steel laid in the ground.	1040	m	0	164	0	170560	170560
20	Supply of earth system: Earth leads 75mm X 8 mm galvanised steel laid exposed	2600	m	516	0	1341600	0	1341600
21	Erection of earth system: Earth leads 75mm X 8 mm galvanised steel laid exposed	2600	m	0	100	0	260000	260000
22	Supply of earth system 8SWG GI wire for earthing	1000	m	28.12	0	28120	0	28120
23	Erection of earth system 8SWG GI wire for earthing	1000	m	0	20.45	0	20450	20450
24	Supply of Ballast/Gravel in the Switch Yard	1266	cum	1615	0	2044590	0	2044590
25	Spreading of Ballast/Gravel in the Switch Yard	1266	cum	0	9.6	0	12153.6	12153.6
26	Supply of cable trench cover	350	sqm	2100	0	735000	0	735000
27	Erection of cable trench cover	350	sqm	0	507.45	0	177607.5	177607.5
28	Supply of earth system 32 mm dia steel rod for earth mat	4000	m	380.77	0	1523080	0	1523080
29	Erection of earth system 32 mm dia steel rod for earth mat	4000	m	0	23.8	0	95200	95200
30	Dismantling of existing earth leads in various size of mild steel flat laid in exposed/ground with all accessories	2000	m	0	240	0	480000	480000
31	Supply of GS blot M16x50/38 with nut and spring washer	7300	Nos	38.66	0	282218	0	282218

	with all accessories							
32	Erection of GS blot M16x50/38 with nut and spring washer with all accessories	7300	Nos	0	20.94	0	152862	152862
33	Erection of Earth wire.	4230 0	m	0	19	0	803700	803700
34	Supply of suspension clamp for earth wire as per Drg. No.RE/33/P/7040 or latest	588	Each	1296	0	762048	0	762048
35	Erection of suspension clamp for earth wire as per Drg. No.RE/33/P/7040 or latest	588	Each	0	194	0	114072	114072
36	Supply of termination of earth wire assembly as per Drg. No.ETI/OHE/G/0520 1 or latest (Part No. RE/33/P/7050 &ETI/OHE/P/5020-1 or latest)	168	Each	5078.7	0	853221.6	0	853221.6
37	Erection of termination of earth wire assembly as per Drg. No.ETI/OHE/G/0520 1 or latest (Part No. RE/33/P/7050 &ETI/OHE/P/5020-1 or latest)	168	Each	0	846.45	0	142203.6	142203.6
38	Supply of 20mm dia of 50/60 mm long copper rivet	416	Each	156	0	64896	0	64896
39	Riveting of 75x8mm flat with buried rail.	416	Each	0	37	0	15392	15392
40	Supply of RDSO approved high productivity fasteners (Rail contact system) for fixing of traction bonds at buried rail earthing station. One set comprises of following 1) M-12stainless steel bolt - 2 Nos. 2)M-12 stainless steel Plain & Lock Washer (Spring Steel) - 2 Nos. Each 3) M-12stainless steel nut- 2 Nos. 4) M-20 stainless steel bolt -8 Nos. 5) M-20 stainless steel Plain & Lock Washer(Spring Steel) -8 Nos. Each 6)M-20 stainless steel	52	Each	5446	0	283192	0	283192

	nut -8 Nos.							
41	Installation of RDSO approved high productivity fasteners (Rail contact system) for fixing of traction bonds at buried rail earthing station. One set comprises of following 1) M-12stainless steel bolt - 2 Nos. 2)M-12 stainless steel Plain & Lock Washer (Spring Steel) - 2 Nos. Each 3) M-12stainless steel nut- 2 Nos. 4) M-20 stainless steel bolt -8 Nos. 5) M-20 stainless steel Plain & Lock Washer (Spring Steel) -8 Nos. Each 6)M-20 stainless steel nut -8 Nos.	52	Each	0	541	0	28132	28132
42	Supply of bi metallic copper/tin bush of 20 mm inner dia of 20 mm in length suitable for placing between rivet and buried rail.	416	Each	322	0	133952	0	133952
43	Fabrication, supply & fixing of cleat arrangement for securing the various bonds (40 X 6 mm size) provided on the PFs connecting to the Rails:	200	Each	630.66		126132	0	126132
44	Demolishing concrete work	100	cum		915.82	0	91582	91582
	Total							23864953.7

Explanatory Instructions for schedule items**Item no. 1 and 2 Supply and Erection of single Earth Electrode at TSS.**

The price shall cover supply and erection of an earth electrode, as per RDSO drawing No. ETI/PSI/222 .The price shall also cover supply and erection of all fasteners and provision of a protective concrete box with removable cover as shown in the above drawing. The price shall include the testing of earth value and painting the particulars on the box. The rate includes provision of Charcoal and Salt in alternative layers irrespective of Soil Condition at Site as per the above mentioned drawing. The earth electrodes should be procured from RDSO/CORE approved Manufacturers.

NOTE:1) The price shall be inclusive of concrete box with cover for this item

Item no. 3,4 Supply and Erection of single Earth Electrode at SP/SSP.

Supply: The price includes supply of fabricated galvanized earth electrodes. The earth electrodes/station should comply the RDSO Drawing No ETI/OHE/ P/ 7020 or latest. Earthing shall be provided as described in Special Maintenance Instruction No. TI/SMI/0032 Rev-02. The earth electrodes should be procured from RDSO/CORE approved Manufacturers.

Erection: The Cost includes digging earth pit for erection of required earth electrode duly filling with Charcoal and salt. The price also includes supply and provision of concrete earth pit box with lid. The price also includes measurement of earth resistance value and stenciling on earth pit cover. The work should be executed as per the Special Maintenance Instruction No. TI/SMI/0032 Rev-02.

Item no. 5,6 Supply and Erection of single Earth Electrode at AT and station.

The price shall cover supply and erection of an earthing stations with a single pipe embedded into the ground complete with protective concrete box and lugs suitable for directly connecting two mild steel flats of minimum size 50 mm x 6 mm. The earth resistance shall be measured and stenciled in the concrete box. The concrete Box shall be, as per RDSO's Design and may not be possible to remove unless otherwise bond fasteners are removed. The rate includes provision of Charcoal and Salt to a minimum size of 0.3 x 0.3 x 2.0 mts. in alternative layers irrespective of Soil Condition at Site. The earth electrodes should be procured from RDSO/CORE approved Manufacturers.

Item No. 7&8 Supply and erection of earth bus

The price shall cover the supply of all materials including 50 mm x 6 mm Galvanized flats for providing earth bus at AT locations/SP/SSP. The price shall also cover erection of earth bus either buried at a depth of 300 mm below ground level. Earth bus exposed shall be painted with 1 coats of red oxide/ zinc chromate primer and 2 finishing coats of grass green shade 218 of IS:5 on wooden gutters on wall. It shall include connecting the earth bus to earth electrodes and to various floor-or- wall mounted equipments or structures to be earthed and also connections to non-track-circuited rails, wherever required. It shall also cover the cost of making recesses in concrete foundation blocks or floor or cubicles and covering them up. Welding shall make the connection of earth strips to each other. The connections of earth strips to various equipments structures of fencing post shall be made with G.I. bolts and nuts and spring washers/locknuts. This will be paid in per metre length. Description of Galvanized MS flat shall be "Galvanized MS flat 50x6 mm confirming to IS: 2062, Grade designation E-250 (Semi-Killed / Killed) for Material, IS:1730 for Dimension & IS:1852 for Quantity Tolerance. Length shall be not less than 6m. Galvanization shall be done as per RDSO specification No. ETI/OHE/13 (4/84) with ACS 1 to 4 (the weight of the zinc coating to be adopted is 750g/m²)"

Item No. 9&10 Supply and Erection of copper strips for equipment earthing

The price shall cover supply and erection of 25 mm x 3 mm copper strips to connect to the earth terminals of equipments like potential transformers, lightning arrestors, L. T. supply transformers and booster transformers to the main masts of the gantries on which they are mounted. The price shall cover all fastenings required for fixing the copper strip along any structure member of the gantry. The flat shall be painted with suitable paint to avoid theft.

Item no.11 Excavation, refilling and consolidation of trench in all kinds of soils, soft rock

The price shall cover Excavation and refilling of soil as per instruction of site Engineer/representative of Sr.DEE/TRD/TVC at TSS and as per Special Maintenance Instruction No. TI/SMI/0032 Rev-02. Before excavation of trench the ballast has to be removed separately and kept for reuse. After completion the buried rail work, the trench to be filled with excavated soil and to be well rammed. After levelling formation level, the released ballast to be spread after cleaning.

Item no. 12 Loading, unloading and leading of rail and laying (52/60 Kg)/OHE mast which is approximately 13/9 metres in length.

The price shall cover Transportation & laying of 13m long rail as per instruction of site Engineer/ representative of Sr.DEE TRD/TVC as per Special Maintenance Instruction No. TI/SMI/0032 Rev-02. The necessary rails/Mast will be supplied by Railway and the firm has to transport the rails to work site at his own cost.

The price shall cover the excavation of trench of size 0.6x15m with a depth of 1m from ground level along the track and erection of buried rail of 13m length (Rail will be supplied by Railways) and joining of Galvanised flat with buried rail. Before excavation of trench, the ballast has to be removed separately and kept for reuse. After completion the buried rail work, the trench to be filled with excavated soil and to be well rammed. After levelling formation level, the released ballast to be spread after cleaning

Method of laying shall be as per ACTM para 7.2.1 of volume II part II of ACTM as "A steel rail of section 52kg/m (the one used for the railway track) and length about 13 m shall be buried near the track at the traction substation at a depth of about one metre to form part of the earthing system. Two separate and distinct connections shall be made by means of 75mmx8mm galvanised flat between the earthing grid and the buried rail. The buried rail shall also be connected by means of two separate and distinct connections made with 75mmx8mm Galvanised flat to the traction rail in a single-rail track circuited section and to the neutral point of the impedance bond in a double –rail track circuited section." The joining of flat with buried rail shall be done as per drawing No. ETI/PSI/0212-1. Payment of Galvanised flat shall be paid under Item no 18&19.

Item no. 13&14: supply and erection of earth leads 50x6 mm mild steel flat laid exposed.**Item no. 15&16: supply and erection of earth leads 50x6 mm mild steel laid in the ground.**

Supply and Erection of Galvanized MS Earth lead 50 X 6 mm GI strip, Laid exposed. Description of Galvanized MS flat shall be "Galvanized MS flat 50x6 mm confirming to IS: 2062, Grade designation E-250 (Semi-Killed / Killed) for Material, IS:1730 for Dimension & IS:1852 for Quantity Tolerance. Length shall be not less than 6m. Galvanization shall be done as per RDSO specification No. ETI/OHE/13 (4/84) with ACS 1 to 4 (the weight of the zinc coating to be adopted is 750g/m²). The price shall also cover erection of GI strip laid in the ground at depth of 60 Centimeters / exposed as per requirement. Required fabrication, cutting, bending, welding & drilling is to be carried out by Contractor. The work also cover connections of the steel strips to the earth electrodes to constitute the main earth ring and to the earthed terminals of steel structures and metallic frame work / terminals of various equipments at 25 KV side as required. The price shall also cover painting of GI strip as per the code of practice. The exposed portion shall be painted with 1 coat of red oxide/ zinc chromate primer and 2 finishing coats of grass green shade as per specification 218 of IS:5. The payment will be made for the actual GI strip used at site for earthing & not for residual portion of GI strip leftover during fabrication / cutting. The price shall also include required GI fasteners for connections confirming to RDSO specification.

Item no. 17: Drilling of holes on rails

The price shall cover Drilling of Holes on rails as per instruction of site Engineer/representative of Sr.DEE/TRD/ TVC as per Special Maintenance Instruction No. TI/SMI/0032 Rev-02. The price does not include for item No-12

Item No. 18 & 19: SUPPLY AND ERECTION OF EARTH LEADS 75X8 MM MILD STEEL LAID IN THE GROUND.**Item No. 20&21: SUPPLY AND ERECTION OF EARTH LEADS 75X8 MM MILD STEEL FLAT LAID EXPOSED.**

The price shall cover supply of 75 x 8 mm GI strip Description of Galvanized MS flat shall be "Galvanized MS flat 75x8 mm confirming to IS: 2062, Grade designation E-250 (Semi-Killed / Killed) for Material, IS:1730 for Dimension & IS:1852 for Quantity Tolerance. Length shall be not less than 6m. Galvanization shall be done as per RDSO specification No. ETI/OHE/13 (4/84) with ACS 1 to 4 (the weight of the zinc coating to be adopted is 750g/m²)" required for earthing. The price shall also cover erection of GI strip laid in the ground at depth of 60 Centimeters / exposed as per requirement. Required fabrication, cutting, bending, welding & drilling is to be carried out by Contractor. The work also cover connections of the steel strips to the earth electrodes to constitute the main earth ring and to the earthed terminals of steel structures and metallic frame work / terminals of various equipments at 25 KV side as required. The price shall also cover painting of GI strip as per the code of practice. The exposed portion shall be painted with 1 coat of red oxide / zinc chromate primer and 2 finishing coats of grass green shade as per specification 218 of IS:5. The payment will be made for the actual GI strip used at site for earthing & not for residual portion of GI strip leftover during fabrication / cutting. The price shall also include required GI fasteners for connections confirming to RDSO specification.

Item No. 22&23 Supply and erection of 8 SWG GI wire for earthing. :-

The price shall cover supply, shaping and erection of 8 SWG G.I. wire per meter used for earthing of control panels, L.T. AC and DC distribution boards, battery chargers, etc. at sub-station control rooms or as directed by site engineer. The requirement of fencing panel earthing to the nearest fencing upright shall also be included and paid for under this item.

Item no. 24&25: Supply and spreading of Ballast/Gravel in the Switch yard.

The price shall be per cu.m. rate and shall cover supply and spreading of uniformly graded gravel/ballast of size 20/25mm, in the outdoor switch yard after completing all the works and levelling the switch yard area. Before spreading ballast the earth shall be well rammed. The gravel/ballast shall be of good quality and free from any dust and dirt. Prior approval of ballast shall be taken from the Purchaser for the gravel samples. The gravel/ballast shall be spread out uniformly to a depth of 10cm. over the area indicated by the Purchaser's Engineer. The price shall also include removal of existing ballast and stacked properly and if required to be reused.

ITEM NO. 26&27 CABLE TRENCH COVERS.

The price shall cover casting of cable trench covers in reinforced concrete as per the standard drawings approved by the purchaser engineer. The cable trench covers shall be fabricated and cast in an iron frame angle of size 45x45x6 mm. The price shall include supply of steel for reinforcement, angle iron frame etc., The price shall include the cost of materials for concrete mixture including cement. The price shall also include positioning, leveling and dressing up of the trench covers, as required. The price shall include the cost of cement also.

Item No. 28&29: Supply and erection of 32 mm dia ms rod for earth mat.

The price shall cover supply and installation per meter length of galvanized mild steel rod of dia 32 mm to be buried at a depth of 60cm below the ground level or as directed by site engineer, to form the earthing grid & connected to earth electrodes. The galvanization shall be done as per RDSO specification

No.ETI/OHE/13(4/84) with ACS - 4. The weight of the zinc coating to be adopted is 750 gms per sq.m. The price shall also cover jointing of the rods by welding to form earthing grid and connection to galvanized M.S. flats by welding for system earthing.

Item No. 30: Dismantling of existing earth leads in various size of mild steel flat laid in exposed/ground with all accessories.

The price shall cover Dismantling of existing earth leads/rods in various size of mild steel flat laid in exposed/ground with all accessories. The released material shall be segregated and stacked neatly at nearest traction substation/TRD depot or as per the advise of Site engineer. The released materials shall be accounted and disposed off suitably at Stores depot in Southern Railway. The price shall include loading , transportation and unloading of materials at stores depot.

Item no. 31&32 Supply and erection of GI Nut Bolt 16 x 50 x 38mm

The price shall cover supply of GI nut bolt M-16x50x38mm, Punched washer A-18, spring washer B-16 with check/lock nut as per Specification No. ETI/OHE/18, for various type of bond/ structure. The price shall cover drilling and chamfering of holes in rail, structure & flat, fixing of GI Nut Bolt 16 x 50 x 38mm alongwith washer and lock nut with various type of bond/structure.

Item No. 33 Erection of earth wire

The price shall cover stringing per meter length of 19/2.5mm (70Kg/mm) galvanized steel stranded wire. It shall include the erection of suitable terminations using strain clamps adjuster (on one side only) etc. It shall also include connecting by means of suitable terminal spades, the end of the earth screen wire to the main members of the columns of portals gantries across which these wires are strung or to 50x6mm M.S. flat earth leads. For purposes of payment the clear span between the structures on which earth wire is run shall be adopted. Rate is inclusive of erection of SPS required if any.

Item no. 34&35 Supply and erection of suspension clamp for earth wire as per Drg. No.RE/33/P/7040 or latest

The price shall cover for supply and erection of suspension clamp for earth wire as per Drg. No.RE/33/P/7040 or latest.

Item no. 36&37 Supply and erection of termination of earth wire assembly as per Drg. No.ETI/OHE/G/05201 or latest (Part No. RE/33/P/7050 &ETI/OHE/P/5020-1 or latest)

The price shall cover for supply and erection of termination assembly with all accessories as per RDSO Drg. No.ETI/OHE/G/05201 or latest (Part No. RE/33/P/7050 & ETI/OHE/P/5020-1 or latest).

Item no. 38 & 39 Supply of 20mm dia of 50/60 mm long copper rivet including riveting of 75x8mm flat with buried rail.

SUPPLY: The price shall cover supply of 20mm dia. copper rivets duly procured from RDSO approved manufacturer as per latest RDSO drawing.

ERECTION: The price shall cover erection of 20mm dia. copper rivets as per instruction of site Engineer/representative of Sr.DEE/ TRD/TVC.

Item no. 40 & 41 Supply and Installation of RDSO approved high productivity fasteners (Rail contact system) for fixing of traction bonds at burried rail earthing station. one set comprises of following 1) M-12stainless steel bolt - 2 Nos. 2)M-12 stainless steel Plain & Lock Washer (Spring Steel) - 2 Nos. Each 3) M-12stainless steel nut- 2 Nos. 4) M-20 stainless steel bolt -8 Nos. 5) M-20 stainless steel Plain & Lock Washer (Spring Steel) -8 Nos. Each 6) M-20 stainless steel nut -8 Nos.

The price shall cover supply of RDSO approved high productivity fasteners as per SMI No. TI/SMI/0032 Rev-2, to provide separate earthing stations at TSS/SP/SSPs. The work shall be executed in accordance with

RDSO SMI No. TI/SMI/0032 Rev-2 and letter No. TI/PSI/Earthing/Policy/14 DT: 26-02-20. One set comprises of

- 1) M-12 stainless steel bolt – 02 Nos.
- 2) M-12 stainless steel Plain & Lock Washer (Spring Steel) – 02 Nos. Each
- 3) M-12 stainless steel nut – 02 Nos.
- 4) M-20 stainless steel bolt –8 Nos.
- 5) M-20 stainless steel Plain & Lock Washer (Spring Steel) –8 Nos. Each
- 6) M-20 stainless steel nut –8 Nos.

Item no. 42: Supply of bi metallic copper/tin bush of 20 mm inner dia of 20 mm in length suitable for placing between rivet and buried rail.

The price shall cover supply of bi metallic copper/tin bush of 20 mm inner dia of 20 mm in length suitable for placing between rivet and buried rail.

Item no. 43: Fabrication, supply & fixing of cleat arrangement for securing the various bonds (40 X 6 mm size) provided on the PFs connecting to the Rails:

The cleat shall be Galvanized flat of size 40x6 mm length varying from 120-200mm and it shall be fabricated as square type U clamp suitable for holding the bond of size 40 X 6 mm (Breadth X Thick) with two holes. The fabricated clamp is to be fixed on the sidewall of PF using expansion bolt (anchor bolt) type plug & screw (length not lesser than 100mm) arrangements with drilling. The fasteners shall be of non-corrosive material. For each bond, double cleat shall be ensured. The drilling of holes shall be done as per the instructions of the Engineer in charge.

Item no. 44: Demolishing of concrete work (Erection).

The price shall cover demolishing of concrete/RCC work which has become abandoned and are not in use. The price shall also include dismantling of any equipment embedded in concrete/RCC block. The price shall also cover transportation charges with leading and loading of dismantled ferrous material if any from Site to Railway Store as per instructions of site incharge.

NOTE: The rates quoted shall be for execution of work under power block/non power block. No extra payment shall be made for execution of work under power block.

Special Condition on Variation in quantities in works contract

1. Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be upto 25% of the quantity originally contracted, except in case of foundation work.
2. The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever upto the limit of 25% variation in quantity of individual item of works.
3. In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates
 - (a) Quantities operated in excess of 125% but upto 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender;
 - (b) Quantities operated in excess of 140% but upto 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;
 - (c) Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.
 - (d) Variation to quantities of Minor Value Item: The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original agreement value.
 - d.(i) Quantities operated upto and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender;
 - d.(ii) Quantities operated in excess of 100% but upto 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender;
 - d.(iii) Variation in quantities of individual minor value item beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.
4. In case of earthwork, the variation limit of 25% shall apply to the gross quantity of earthwork and variation in the quantities of individual classifications of soil shall not be subject to this limit.
5. In case of foundation work, no variation limit shall apply and the work shall be carried out by the Contractor on agreed rates irrespective of any variation.
6. As far as SOR items are concerned, the limit of 25% would apply to the value of SOR schedule as a whole and not on individual SOR items. However, in case of NS items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).
7. In cases where decrease is involved during execution of contract:
 - (a) The contract signing authority can decrease the items upto 25% of individual item without finance concurrence.
 - (b) For decrease beyond 25% for individual items or 25% of contract agreement value, the approval of an officer not less than rank of S.A. Grade may be taken, after obtaining 'No Claim Certificate' from the contractor and with finance concurrence, giving detailed reasons for each such decrease in the quantities.
 - (c) It should be certified that the quantities proposed to be reduced will not be required in the same work.
8. For the tenders accepted at Zonal Railways level, variations in the quantities will be approved by the authority in whose powers revised value of the agreement lies.
9. For tenders accepted by General Manager, variation upto 125% of the original agreement value may be accepted by General Manager.
10. For tenders accepted by Board Members and Railway Ministers, variations upto 110% of the original agreement value may be accepted by General Manager.
11. The aspect of vitiation of tender with respect to variation in quantities should be checked and avoided. In case of vitiation of the tender (both for increase as well as decrease of value of contract agreement), sanction of the competent authority as per single tender should be obtained.

Chapter - 9**ANNEXURES****ANNEXURE - I****MANDATE TO BE SUBMITTED BY CONTRACTOR FOR UPLOADING OF INFORMATION
REGARDING BILLS AND FOR PAYMENT THROUGH EFT/RTGS****ELECTRONIC FUND TRANSFER MANDATE FORM**

1. Name of the Contractor :
2. Address :
3. City :
4. State :
5. Pin code :
6. Phone Number :
7. E-mail id :
8. PAN No. :
9. Bank Account Number :
10. Account type :
11. Bank name :
12. Branch :
13. Bank address :
14. Branch code :
15. MICR code of the branch :
16. IFSC number of the branch :

Signature of Tenderer:

Date:
Address:

ANNEXURE-II

List of Railway supplied material

Earth wire required for item no. 33 will be supplied by Railways

NOTE: The cost of the materials other than those specified above, issued to the contractor will be deducted from contractor's bill as specified in clause No. 32 of Special condition of contract (Technical).

ANNEXURE-IIICONTRACTOR SUPPLY ITEMS

All the materials required for execution of this work except those specified in Annexure – II have to be arranged by contractor.

FORMAT FOR DECLARATION TO BE UPLOADED BY TENDERER ALONGWITH THE TENDER DOCUMENTS IF NO RETIRED RAILWAY EMPLOYEE IS/ARE ASSOCIATED WITH THE FIRM

I/We, _____ hereby declare that, as per instructions contained in Clause No. 16 of Annexure I of Part I and Clause No. 59(9) of Part II of Indian Railways Standard General Conditions of Contract, no retired Railway employees are associated with my/our firm.

Place:

Date:

**Signature of the Authorised person of the Firm
with stamp and date**

ANNEXURE-V

LCDA No. (18DIGIT 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 supply/work of---
(DESCRIPTION OF GOODS/ WORK FROM IREPS) -----

The beneficiary of the aforementioned Letter of Credit M/s...(NAME AND VENDOR CODE)...(Vendor Code...as per IREPS..) is entitled to receive payment aggregating INR....\$\$\$....(FROM ABSTRACT OF BILL PASSED)..... out of a 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 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: ____\$\$\$____

LC BALANCE AFTER THIS PAYMENT: _____

(Signature of authorized Railway authority)

Name

Designation

Official seal

(Ref: Railway Board letter No. 2018/CE-I/CT/9 dated: 04-06-2018)

SOUTHERN RAILWAY

SITE ORDER BOOK

Name of Work:

AGT. No. / Date:

Name of the contractor:

Starting date of construction:

Sl. No.	Site Order by Inspecting officials	Signature of the official	Noting Signature		Compliance details	Remarks	Compliance Signature	
			Contractor	SSE			Contractor	SSE

Notes:

1. For every work, separate site order book should be maintained.
2. Site order should be recorded specifically and chronologically.
3. Wherever required site orders may be supported by sketches.

Special Note:

Any objection of the contractor to the site order should be brought to the notice to the Executive Engineers or higher officials immediately by the contractor separately.

SOUTHERN RAILWAYHINDRANCE REGISTER

Name of Work:

AGT. No. / Date:

Name of the contractor:

Starting date of construction:

Sl. No.	Nature of hindrance	Date of Occurrence	Date of removal	Period of hindrance	Over lapping period	Total period of hindrance	Extension recommended	Extension approved	Clause under GCC	Signature	
										Contractor	SSE

Notes: Separate register to be maintained for each work.

SOUTHERN RAILWAYMATERIAL TRANSACTION REGISTER

Name of Work:

AGT. No. / Date:

Name of the contractor:

Starting date of construction:

Location of Stores:

Date of Receipt	Name / Nature of work	Opening Balance	Item Description	Details of Receipt				Total received (with unit)	Total certificate	Signature		Details of issues			Closing Balance	Remarks reg. performance	Signature	
				Voucher No.	Brand	Quantity	Expiry date			Contractor	SSE	Date	Quantity	Total issued			Contractor	SSE

Notes: Separate register to be maintained for each work

SOUTHERN RAILWAY**CUBE TESTING REGISTER**
(Applicable for concreting work)

Name of Work:

AGT. No. / Date:

Starting date of construction:

Name of the contractor:

Sl. No.	Date of concreting	Name of component	Grade of concrete	Compressive Strength in N/mm					Signature		Compressive Strength in N/mm2				Remarks	Signature		
				Date of testing	After 7 days curing						Date of testing	After 28 days curing				Contract or	SSE	
					I	II	III	Avg.	Contractor	SSE		I	II	III				Avg.

Note: Separate register to be maintained for each work.

SOUTHERN RAILWAY

DAILY PROGRESS & LABOUR REGISTER

Name of Work:

AGT. No. / Date:

Name of the contractor:

Starting date of construction:

Date	Status of work (in the beginning)	Progress (on date)	Contractor labour (available at site)	Remarks	Signature	
					Contractor	Rly Representative

Note: Separate register to be maintained for each work

End of document