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दक्षिण रेलवे/ SOUTHERN RAILWAY

Thiruvananthapuram Division

Traction Distribution Branch

E-TENDER DOCUMENT NO. V/TRD-OT/339/2026-27

E-TENDER NOTICE NO. V/TRD-OT/02/2026-27 Item1 Dated 12.06.2026

Tender for the work: Replacement of existing PSC mast with fabricated steel mast under the jurisdiction of TVC division (Shoranur -Ernakulam section).

Tender value (Approx.)	Rs.22592507.08
Cost of Tender document	NIL
Earnest Money Deposit	Rs. 4,51,900/-
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 Item1 Dated 12.06.2026		
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.		
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.		
1	Name of work with its location	<u>Replacement of existing PSC mast with fabricated steel mast under the jurisdiction of TVC division (Shoranur -Ernakulam section).</u>
2	Approx. cost of the work	Rs. 22592507.08
3	Cost of the Tender form	NIL
4	Earnest Money Deposit (EMD)	Rs. 4,51,900/-
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 (SOR Items, Non SOR items)
- (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 (SOR Items, Non SOR items) (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 (SOR Items, Non SOR items)
- (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: **Replacement of existing PSC mast with fabricated steel mast under the jurisdiction of TVC division (Shoranur -Ernakulam section).**

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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 (SOR Items, Non SOR items)
- (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. **2,25,92,507.08**

3. **Standard Schedule of Rates and Percentage to be quoted.**

Schedule of work of the tender document lists out the standard schedule of rates (SOR) for various items, categorized under three sub-sections namely PART-B (Steel items), PART-C (Foundation items). and PART-D (Other items). Tenderers are advised to quote percentage rate, below/at par/above against Part-B, Part-C and Part-D. The contractors have to fill the rates for items listed under Non SOR items.

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. **4,51,900/- (Rupees Four Lakhs Fifty One Thousand and Nine 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</p>

			<p>issued by a person authorized by the Public listed company to issue such certificates.</p> <p>In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.</p> <p><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 proprietary firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in 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 $0.3 \times 0.2 \times \text{value of the work done in the previous entity}$. 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 proprietary 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 5(five) 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. No separate payment will be made by Railways against GST.
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.

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. No separate payment will be made by Railways against GST.
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) in any of the following forms, amounting to 5% of the original contract value:-
- (i) A deposit of Cash;
 - (ii) Irrevocable Bank Guarantee;
 - (iii) Insurance Surety Bond as per Annexure XVII -Advance correction slip 9 of GCC
- Note: 1. The provision of Insurance surety bond shall be for all contracts having DOC within 36 months only.
2. In case DOC extends beyond 36 months, fresh insurance surety bond or any other form of Performance Guarantee prescribed in GCC for the balance amount shall be submitted by the agency, otherwise necessary action will be taken as per terms of agreement.
- (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.
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. Vitiating 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) Vitiating 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 vitiating.

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

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. Released/Retrieved materials except OHE masts/Portals shall be handed over to Railway at the nearest OHE depot. All the retrieved mast shall be stacked at the places to the nearest OHE maintenance depot or as decided by the purchaser in the section.
13. 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 OHE depot only. Transportation of masts from available locations/depots to site of work is to be taken up by contractor duly utilizing schedule item no. NS-7.
14. No material price variation or wages escalation on any account whatsoever and compensation for "Force Majeure", etc. shall be payable under this contract.
15. 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.
16. 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.
17. 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.

18. 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.
19. **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.
20. 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.
21. 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.
22. 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.
23. 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.
24. **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 ₹ |
|---------|---------------------|------|-----------|
| 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/- |
25. **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 contains in Indian Railway Standard General Conditions of Contract (latest).
26. **On Account Payment:** On Account' (ONA) payment will be made for supply of materials against the items of works specified in Sl. Nos. 3(a)(ii) and 3(c) of the schedule of work, Part -1 up to 80 % of the accepted rates for material portion subject to the following conditions:
- On Account bills should be accompanied by
 - Suppliers challan.
 - Inspection certificate granted by Purchasers representative/RITES/RDSO.
 - Certificate of receipt of materials at contractor's depot duly accepted by the authorized representative of Sr.DEE/TRD/TVC.
 - Quality assurance documents as specified in clause No. 27
 - Certificate that stores have been insured.
 - Further the contractor should furnish bank guarantee for 10 % of the amount claimed as 'On Account' payment. The Bank Guarantee shall be in the prescribed form from State Bank of India or from any scheduled bank/ nationalized bank. Initial validity of the On Account BG shall be for one year or up to the stipulated contract completion period whichever is earlier. In the event of extension of completion period, the contractor shall extend the validity of bank guarantee if the ONA payments are not fully adjusted from progress

payments by that time. In case the contractor is unable to furnish the bank guarantee, equivalent cash would be held by Railways from the payments due to the contractor.

- (c) The On Account payment made will subsequently be adjusted against progress payments against completed portion of works.
 - (d) The above mentioned bank guarantee/cash recovered may be released progressively after adjustment of the On Account payment amounts from the progress payments. The contractor may furnish B.Gs in different denominations (Maximum 2 No. of BGs) for this purpose. Each BG will be released after adjusting the ONA payment to the extent of that particular BG.
27. 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.
28. **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.**
29. 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. *The released contact wire should be re rolled on a drum without any damage and the same should be handed over to the nearest OHE depot by the contractor.*
30. 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.
31. Final Acceptance:
The final acceptance of the entire equipment installed shall take affect from the date of expiry of the period of guarantee.
32. Special Conditions from the contractors will not be entertained or accepted. If the same are specified, his tender is liable to be rejected.
33. 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.

34. 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.
35. 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).

SUMMARY OF PRICES

Schedule for: Replacement of existing PSC mast with fabricated steel mast under the jurisdiction of TVC division (Shoranur -Ernakulam section).

Schedule – 1, Section – 1 (SCHEDULE OF RATES (SOR))

Sl.no.	SOR No.	Description	Unit	Qty	Rate (₹)			Total (₹)		
					Material	Erection	Total	Material	Erection	Total
		<u>PART - B Steel items</u>								
1	3(a)(ii)	Supply only for fabricated mast K,B,S, Tseries etc.	Tonne	53.82	59466		59466	3200460.12		3200460.12
2	3(c)	Supply of fabricated steel work(SPS).	Tonne	10.76	60702		60702	653153.52		653153.52
3	3(c)	Erection of fabricated steel work(SPS).	Tonne	10.76		3636	3636		39123.36	39123.36
4	32/3(c)	Erection of fabricated steel work(SPS)/ work under power block	Tonne	10.76		3636	3636		39123.36	39123.36
		Total						3853613.64	78246.72	3931860.36
		Average of last accepted percentage	143.95%					5547276.83	112636.15	5659912
		Total for Part-B						9400890.47	190882.87	9591773.34
	<u>PART - C Foundation items</u>									
5	2a(i)	For Foundation and Plinth - Concrete in hard soil	Cum	28		2501	2501		70028	70028
6	2b.	Concrete in other than hard soil and rock	Cum	498		2484	2484		1237032	1237032
7	2c	Reinforced concrete	Cum	32		4397	4397		140704	140704
		Total							1447764	1447764
		Average of last accepted percentage	326.55%						4727673.34	4727673.34
		<u>Total for Part-C</u>	-						6175437.34	6175437.34
PART - D Other items										

8	1a	Preparation of designs and drawings for over head equipment and verification of Purchasers Engineering Plan.	STKm	10		5022	5022		50220	50220
9	3a(i)	Erection of traction masts and main masts of switching stations, booster stations and LT supply Transformer stations by manual	Tonne	53.82		2438	2438		131213.16	131213.16
10	32/3a(i)	Erection of traction masts and main masts of switching stations, booster stations and LT supply Transformer stations by manual	Tonne	53.82		2438	2438		131213	131213
11	4a(i)(b)	Supply of a single bracket assembly without insulator	Each	75	5363		5363	402225		402225
12	4a(i)(b)	Erection of a single bracket assembly without insulator	Each	75		492	492		36900	36900
13	32/4a(i)(b)	Erection of a single bracket assembly without insulator work under power block	Each	75		492	492		36900	36900
	31	Modification to erected equipment								
14	31 a.	Transfer of equipment from one mast or support to another	Each	145		873	873		126585	126585
15	32/31 a.	Transfer of equipment from one mast or support to another	Each	145		873	873		126585	126585
16	31 k	Dismantlement of OHE mast / structure by cutting	Each	145		1747	1747		253315	253315
17	32/31 k	Dismantlement of OHE mast / structure by cutting-work under power block	Each	145		1747	1747		253315	253315
		Total						402225	1146246.32	1548471.32
		Average of last accepted percentage	312.00%					1254942	3576288.52	4831230.52
		Total for Part-D						1657167	4722534.84	6379701.84
		Total for SOR items						11058057.5	11088855.05	22146912.55
		Section II - Non SOR ITEMS								

18	NS- 1	Supply of 40 x 6mm Hot Dip galvanised Iron Flats having 750g/sqm or above Zinc coating confirming to RDSO specification no. ETI/OHE/13(4/8) with ACS 1 to 4 (Actual length of bonds fabricated and physically erected at each location only will be measured for payment)	m	690	346.67		346.67	239202.3		239202.3
19	NS-2	Fabrication, application of cold galvanising paint transportation and erection of structure bonds	each	145		810	810		117450	117450
20	NS-3	Fabrication, application of cold galvanising paint transportation and erection of Logitudinal/U-bonds.	each	10		676.67	676.67		6766.7	6766.7
21	NS-4	Fabrication, application of cold galvanising paint transportation and erection of Transverse/Special bonds	each	10		1121.6 7	1121.6 7		11216.7	11216.7
22	NS-5	Fabrication, application of cold galvanising paint, transportation and erection of structure/longitudinal /Transverse/ Special bonds having length more than 6m long. (The jointing of bonding flat shall be but welded with 10 cm over lap and the joint shall be painted with cold galvanising paint)	each	5		1269.3 3	1269.3 3		6346.65	6346.65

23	NS-6	Supply of HOT Dip Galvanised bonding bolts M16, 50/38mm with two numbers of plate washer and one spring washer and nut, confirming to RDSO specification (the Bolts shall be procured from RDSO/CORE approved manufacturer)	Each	340	75.33		75.33	25612.2		25612.2
24	NS -7	Leading, loading, transportation and unloading of Railway supply OHE masts/portal components to work spots from anywhere to anywhere in TVC Division.	MTKM	1000		39	39		39000	39000
		Total						264814.5	180780.05	445594.55
		Total for SW-I						11322872.5	11269635.1	22592507.07

Chapter – 7

Explanatory Instructions for schedule items**Explanatory instructions for items described in the schedule of work, Schedule-1 section-1****Sl. No.1** **Item No. 3(a)(ii) – Supply only for fabricated mast K,B,S,T series etc.**

Note : For the purpose of payment, the weight of individual traction mast and masts of head span shall be determined for each type on the basis of the payable weights per metre length shown below for standard types. For special type mast the payable weight per metre length will be indicated by the purchaser at the time of approval of designs.

PAYABLE UNIT WEIGHTS FOR STANDARD MASTS

S.No.	Types of Masts	Weight in Kg per metre including Galvanisation.
1.	6" x 6" x 25.15 BFB	38.03
2.	162 X 154 X 27.1 KG BFB	38.00
3.	200 X 200 X 49.9 BFB	51.20
4.	8" X 6" X 35 CBS RSJ	53.39
5.	S 1	53.39
6.	S 3	76.40
7.	S 4	53.39
8.	S 5	111.53
9.	S 6	53.39
10.	S 7	76.40
11.	S 8	111.53
12.	K 100	23.70
13.	K 125	30.30
14.	K 150	38.18
15.	K 175	43.72
16.	K 200	49.87
17.	K 225	57.50
18.	K 250	66.72
19.	B 100	27.71
20.	B 125	32.47
21.	B 150	39.07
22.	B 175	44.61
23.	B 200	50.76

24.	B 225	61.50
25.	B 250	70.72
26.	S 100	23.72
27.	S 101	19.98

Note for item 3(a)(ii)&3(a)(iii): The purchaser reserve the rights to procure the total quantum of work under 3(a)(ii) & 3(a)(iii) by the contractor in one lumpsum or on split quantities on either way as the rate being equal.

Note For Item 3 (a), 3 (b) and 3 (c)

- (I) The price for the item 3 (a) and (b) shall also includes cost of stenciling of location number, contact wire height, stagger, implantation and Rail level including emergency telephone indication, on Mast/Portal uprights in the manner as directed by the purchaser. The price shall also include the straightening of masts/ portal upright bent during transit and cutting of mast/ portals to suit the site conditions. The mast/structures cut to suit site condition, proportionate weight will only be paid.

For erection under items 3(a)(i) and 3(b)(i) the contractor can use his own road crane duly transporting the structures to site but no extra rates are admissible for this.

The mast/ portals supplied under item 3 shall conforms to the following:

- i) Quality of steel – ST 42-S of IS 226, IS – 2062
- ii) Fabricated etc. – IS – 800
- iii) Electric arc welding – IS – 816.

For galvanization of the mast, zinc confirming to grade ZN 99.99 and as per IS – 209 and 1966 shall be used. The Mast/ Portals shall be Galvanized as per IS 2629 of 1968 and the masts of Zinc coating shall not be less than 1000 gms/sq.m for all galvanised materials under this contract.

The mast/ portals which are not conforming to the standard mentioned above will be rejected.

- (iv) Temporary bonding of structure by means of 2 nos. of 8 SWG wire shall be done before boom erection, where proper bonding arrangement is not available. In case of masts erected due to any modifications/alterations and where OHE wiring is not done, mast number plate and stenciling of number and other parameters as per RDSO directives have to be provided by the contractor. The cost of such number plates is included in the supply and erection schedules of item No. 3. The quantity schedule for item no 3(a)(ii) & 3(b)(i) are prepared based on certain drawings given during preparation of schedule. The purchaser reserves the right to change quantities among item no 3(a)(ii) and 3(b)(i) during execution of works as per site requirements.

Sl. No. 2 & 3 Item No. 3(c) – Supply and Erection of fabricated and galvanized small parts steel work (SPS).

The price shall cover the cost of supply and erection of the above steel works including fasteners which are to be supplied by the contractor as per the approved designs and drawings.

For standard fabricated steel work for which RDSO's approved drawings are available, the weight of steel work as specified in RDSO's drawing shall be considered for payment. However in case the unit sectional weight of any member indicated in RDSO's drawing is not in conformity with the unit sectional weight as per the latest IS specification the weight of the fabricated steel work, shall be calculated on the basis of latest IS specification and the same will be considered for payment. For the non standard fabricated steel work the calculated weight to be considered for payment under this item shall be included in the relevant drawing based on latest IS sectional weight at the time of submitting the designs

for approval of the purchaser. All type of Drop arm with accessories, Pedestal Insulator outrigger (with mast/structure) and feeder super (individual or on portal) mast, 3121 will only be paid under this schedule. Other small parts steels provided if any are considered in the schedule of works other than 3 (c). If any SPS's not specified in the explanatory note or any particular item, the same shall also be comes under this item.

NOTE FOR ITEMS 3 (a), (b) & (c) : For the purpose of payment against items 3 (a), (b) & (c) weight for structures or fabricated steel work will be calculated according to the weight of black steel given in section books for the lengths of various members shown in the approved drawings. There will be no addition for increased weight due to galvanizing or painting or weld material or reduction for holes or skew cuts. If the weight of structure received by the contractor is less than the weights specified for the standard mast, payment shall be made for less weight only.

Sl. No.5 Item No. 2 (a)(i) - Concrete for foundation and plinth in hard soil.

The price shall cover excavation, supply and handling of all materials, and accessories, temporary arrangements for excavation in hard soil and concrete/ masonry drains/ walls requiring use of chisel and hammer 2 (a) (I) or requiring blasting 2 (a) (ii) shoring where necessary, casting concrete including form work where necessary, casting concrete grouting of masts and finishing the top of concrete foundation or anchor blocks wherever underground cable or pipes are met with. The contractor should arrange to excavate with due care so as not to damage the U.G. cables/ Pipes and arrange for slight deviation of the U.G. cable to the extent necessary to cast foundation and protect the cables using PVC/ RCC pipes of adequate thickness and length as approved by the Purchaser's Engineer. The price also includes dismantling of all connected temporary arrangements back filling with earth and compacting the same to the required height and width as per drawing to ensure safety of foundation confining the exposed height of foundation block to within 10 cm and removal of soil. The contractor shall arrange for filling up of earth around foundation where the embankment is low and enough shoulder width is not available as directed by Purchaser's Engineers. The price shall also include diverting the tracks side drains if any on account of OHE mast foundation works. The purchaser engineer shall certify where use of chisel and hammer or blasting has been necessary. The contractor shall arrange for supply of explosives and all tools and plants for blasting operations at his own cost. If half or more of the depth or width of excavation is in hard soil/ concrete/ masonry drains/ walls or in rock, the entire foundations shall be paid for under item 2 (a) (i) or 2 (a) (ii) as the case may be. If half of the depth or width of the excavations is in hard soil/ concrete/ masonry/ drains/ walls and the other half is in rock the entire foundation shall be paid under item 2 (a) (ii). The price shall also include the cost of cement. The cement to be used for construction of PCC/RCC should be of ISI branded ordinary Portland cement to IS269 of latest version or Portland Pozzolana cement (fly ash based) as per IS :1489 Pt-I,1991,3rd revision or its latest.

Notes for measurement for items 2 (a) (i) and (ii)

1. The payable volume of the foundations under item 2 (a) (i) and (ii) shall be the designed one as shown in the drawings for which the whole has been blasted/chiseled irrespective of the actual configuration assumed by the latter due to the following.
2. The depth of the excavation shall be measured from the formation level to the maximum excavated point.
3. The price offered shall include the cost of breaking the cement concrete flooring for burying the MS flat bond and after placing the structure bond the removed concrete flooring shall be set right by using new concrete. No separate payment will be given for resurfacing.

Sl. No.6 Item No. 2(b) - Concrete for foundation and plinth in other than hard soil and rock.

The price shall include all works mentioned in item 2 (a) in all classes of soil except hard soil concrete or masonry drains and walls and rock.

NOTES FOR ITEMS 2

1. The price under item 2 shall be same for any shape or size on concrete blocks, cable trench or brick wall in calculating the individual volume of concrete and brick work, or a cubic meter beyond the third decimal shall be rounded off to the nearest third decimal.
2. The price under item 2 (A), (B) & (C) shall apply for concreting of all pedestals, plinths and foundations for gantries/ portals and supporting steel work and cable trenches and for other civil engineering work wherever required.
3. For purpose of computation of volume of concrete and brick work under item 2 the volume of steel work embedded in the foundation block of muff shall be ignored.
4. The volume of each muff will be included in the volume of concrete for the respective foundation for purposes of computation of volume of concrete.
5. The prices shall include cost of embedment of drain pipes, conduits for cables or earthing flats where necessary.
6. In respect of concrete for cable trenches, the price shall not include the cost of cable supports and trays, which shall be supplied and erected by the contractor's and shall be paid for under item 3.
7. Dowel bars in special foundations and nominal reinforcement in black cotton soil foundations will be necessary. Such nominal reinforced foundation in black cotton soil will be payable under item 2 (B) and not under item 2 (C). The steel for nominal reinforcement and dowel bars will be supplied by the contractor and the concrete mixture, in such a case shall be as for normal foundation 1: 2: 4.
8. In case, the anchor foundation cast becomes redundant due to reasons beyond the control of Railways, no extra rates are admissible for the Anchor loops embedded in the anchor foundation.
9. Muffling of OHE mast/structures should be done along with grouting in order to ensure homogeneous bonding between Muffling and grouting concretes.
10. For all foundation works in OHE/Feeder/PSI works – M-15 concrete shall be used and for core – M – 20 concrete shall be used.
11. For every 50m³ of concrete casted, three samples of test cubes of size 15x15x15cm shall be made and tested for crushing strength after 28 days at any government approved agency/college. If any sample test cube fails, the performance of the foundations will be observed for a period of one year from the date of casting for any crack or disintegration; if found satisfactory, payment for that batch will be made after the observation period.
12. If any foundation becomes obsolete due to change in track alignment etc., during the execution of the work, the contractor may be asked to recast new foundation in lieu of the old. In such cases, the contractor is eligible to get payment for each such location under item 2.

Sl. No. 7 Item no. 2 (c) - Reinforced concrete for foundation and plinth

The price shall cover excavation for reinforced concrete work for foundations, supply of steel for reinforcement and other materials including bending, binding, laying of the reinforcement, shoring where necessary, casting concrete including form work where necessary, grouting and finishing the tops of foundation blocks. The price shall also include dismantling of all connected temporary arrangements back filling as required and removal of soil. The price shall also cover all concrete work for foundation or anchor blocks on bridge piers, irrespective of whether they are actually reinforced or not, and those for cast-in-situ piles foundations and counter weight foundations. Rails and fasteners required for counter weight foundations shall be supplied by the purchaser free at the contractor's depot or workshop according to the convenience of the purchaser. The volume of cast-in-situ piles shall be added to the volume of foundation block for the purpose of payment. Dowel bars as may be required for bond with bridge structures shall be supplied and erected free of cost by the purchaser. Dowel bars will not be considered as reinforcement for the purpose of this item.

Note : Nominal reinforcement will be necessary in black cotton soil foundations. Such nominally reinforced foundation in black cotton soil will be payable under item 2 (b) and not under item 2 (c).

The steel for nominal reinforcement will be arranged by the contractor and the concrete mixture, in such a case shall be as for normal of foundations 1:2:4.

Sl. No. 8 Item No. 1a) Preparation of designs and drawings for overhead equipment and verification of purchasers Engineering plan

The price shall cover verification of purchasers engineering track plans indicating the layout of new lines with respect to the existing lines, which will be issued by the purchaser in stages. The preparation of lay out plans and other design are to be finalized by the contractor in consultation and in close coordination with purchaser. The contractor may be asked to prepare the layout plans based on the site details if the purchaser not able to supply the Engineering track plan. The rate shall be per TKM. The price shall include the following.

Preparing a detailed Electrification layout plan indicating the existing track and OHE arrangements with the proposed track and OHE arrangements based on the details given in the existing OHE layout / proposed alignment track plan/ Site details taken from the site.

Preparation of cross section drawings and structure erection drawings for each structure locations. For the new locations and modified structure/ mast.

Choice of type and size of foundations to suit soil and loading conditions, except for the ones which are considered as 'Works under other Agencies'

Preparation of long section drawings of overhead equipment where such drawings are required including detailed study of over line structures such as foot over bridges, road over bridges etc. for maintaining this specified height of contact wire and requisite clearances.

Preparation of other designs and drawings including drawings of small parts steel work (other than those for which RDSO standard drawings are available) and detailed designs for booster transformer stations and Aux. transformer station.

Supply of requisite number of copies of all drawings including completion drawings as per the instruction of Purchaser

Bonding Layout Plan : -

Preparation of Bonding layout plan based on signaling plan and as desired by the Purchaser Engineer as per site condition

b) Any change in Bonding arrangements consequent to the OHE modifications done, shall also to be prepared for the entire kilometer length.

Note : 1) This price shall also cover soil investigation of testing in an approved manner.

2) All the designs & drawings shall preferably be done in CAD or on any other higher software.

NOTE FOR MEASUREMENTS: For the purpose of payment against this item the length of track shall be measured as under :

1. GENERAL : By the difference in the chainages of the length under consideration as incorporated in the layout plans.
2. TURNOUTS : The track taking off shall be deemed as starting from the toe of the switch of the Turnout.
3. CROSS OVERS : The length of track shall be taken as the difference in the chainages of the toes of switches of the two turnouts constituting the crossover.
4. DIAMOND CROSSING WITH OR WITHOUT SLIPS : The two tracks crossing each other shall be measured independently as per note 1 above as though there were no crossing. No extra shall be provided for slip points.
5. DEAD ENDS AND TOPS OF LOOPS : The lengths for payment under this item shall be upto chainage of anchor mast of the terminating OHE.

6. FEEDER AND RETURN FEEDERS FROM GRID SUB STATION TO FEEDING STATION : This item will be also applicable independently in case of feeders/ return feeders/ conductors from grid sub station to overhead equipment feeding stations or in a case of feeders/ conductors running on independent structures (not supporting OHE) along or across tracks.

NOTES FOR MEASUREMENTS

In such a case the length of line to be considered for purpose of item 6 shall be measured by the distance between the centre of gantries of the grid sub station and feeding stations, in case of feeder/ return feeders/ conductors line from grid sub station or by the distance between the center line of the two structures to which the feeders/ return feeders/ conductors are anchored in case of feeders running along the track if such feeder/ return feeder/ conductors are running completely on independent structures or by the distance between the centre of the structures supporting the OHE on either side of the first and last independent structure in case of feeders/ return feeder/ conductors running alongwith the track support OHE.

Sl. No. 9 Item No. 3 (a) (i) - Erection of traction masts and main masts of switching stations and LT supply transformer stations by manual.

The price shall cover cost for manual erection, alignment and setting before grouting of individual traction mast and main mast of switching post and booster transformer stations, including dwarf mast and mast for L. T. supply transformer stations whether rolled or fabricated including those for head span. Erection of traction mast also includes painting with cold galvanizing paint in rusted area and also removal of the bends if any in the mast supplied by Railways. The masts released under item no (31-l) may also have to be reused.

Sl. No. 11 & 12 Item no. 4 (a) (i)(b) - Supply of a single bracket assembly without insulators and erection of a single bracket assembly complete with insulators

The price shall cover on a flat rate basis any bracket assembly on a traction mast or support or drop arm, and shall include those of high/ low level platform, in the vicinity of turnouts, over bridges or overlaps and at locations with reduced encumbrance or terminating wires. The price shall include cost of supply of all components galvanized steel tubes, 5 mm dropper wires including adopter small parts steel work complete with bolts and nuts, SS bolts and nuts required for fixing the insulators etc. if any except for the Insulators. Insulators will be supplied by the Purchaser. The price shall cover erection of all components including solid core insulators, dropper wires and small parts steel work excluding MCC i.e., 3121 in the case of multiple cantilever locations. This include the anticreepcentre arrangement at masts/ structures.

The price shall include :

Rly Id No.	Description of Components	Qty per Unit
3020	Mast fitting for hook insulator with 2 of bolts, nuts, locknuts washers of 16 mm	1 set or as required.
2400	Tubular stay arm assembly (including description of components galvanized steel tube)	1 set or as required
2110/2130	Catenary suspension bracket assembly or hook bracket	1 Off
2380	Suspension clamp	1 Off (as required)
1160/2120	Bracket tube assembly complete with tube cap and sleeve where required (including galvanized steel tube).	1 set
2040 or 2080		
3070-1/2	Mast Bracket fitting assembly including 2 off bolts, nuts locknuts and washers of 16 for attachment to structure or to small part steel work.	1 set
2150-1/ 2160-1	Register arm hook assembly complete with bolts, nuts and locknuts.	1 Off

2420 or 2430	Register arm assembly or raised register arm assembly (including galvanized steel tube).	1 Set
2270-4 or 5 2460 style 02 or 2470 style – 02	Register arm dropper assembly including 5 mm dropper wire, complete bolts, nuts etc.	1 Set
2390/2540 2520	BFB steady arm or bent steady arm (where required)	As required
2360/2490-2 3131 & 3076	25 mm steady arm drop bracket/ clamp Adoptors& Backing angle	do do
1220/ 1370/-1(Mod-F)	Contact wire swivel clip or raised register arm clamp	1 off
2550-1/2	antiwind clamp	as required

Note: If the area falls under polluted zone, long creepage insulator of 1050 mm to be used. If the contractor is willing to use composite insulator instead of Porcelain insulator of normal/long creepage, the same can be used without extra cost with the prior approval of the purchaser. Wherever cantilevers are supported in drop arms with track centre more than 4.72 m, drop arm cantilevers shall be with 2.35 m setting distance. The cantilevers provided on drop arm assemblies and individual mast shall invariably be provided with large bracket tube in 150 kmph wind zone areas and with standard bracket tubes in other wind zone areas with normal implantation. This is applicable to all types of bracket assemblies under item no. 4.

Sl. No. 14 Item no. 31 (a) - Transfer of equipment from one mast or support to another

The price shall cover transfer of overhead equipment to a bracket assembly on a new mast or support, and dismantling of the erected bracket assembly from the old mast or support and release of SPS DA etc. The dismantled equipment shall be returned to the purchaser along with steel works like MCC DA and consequent adjustment to overhead equipment required such as changing the droppers leveling etc. No extra rates are payable for providing new dropper wires, catenary / contact wire clips if any. The foundations and steel work and bracket assembly for the new mast or structure will be paid for under appropriate Item 2, 3 and 4 respectively. Where ever changing of winch type regulating equipment by modified 3 pulley type regulating equipment is carried out, in addition to supply and erection of 3 pulley type RE, transfer of OHE shall be paid for transferring OHE from old RE to new RE.

Sl.No.16 Item no. 31(k) - Dismantlement of OHE mast/structure by cutting

The price shall also cover the cutting of the PSC mast as directed by the purchaser. The OHE foundation must be chipped or broken to a depth of 670mm from the tip of the foundation. The steel structure if any during cutting to be retrieved and shall be handed over to the nearest OHE depot. All the retrieved mast shall be stacked at the places to the nearest OHE maintenance depot as decided by the purchaser in the section. On completion of cutting site clearance shall be done duly back filling if there any need be. Any small part steels available in the mast/structure shall be released safely and handed over to the purchaser. No extra rate is admissible for the same. The rate is inclusive of cutting of mast, breaking of the concrete and removing the steel and handed over to the same to the nearest OHE depot.

Item Nos. 32/3c, 32/3a(i), 32/4a(i)b, 32/31(a) & 32/31(k)- Amount payable for each item of work carried out under power block, over and above the amount payable for the corresponding item carried out under non-power block.

The price under these items cover extra charges over and above erection rates of the SOR item specified in the Schedule of work, Part - 1, for erection of equipments in the vicinity of energized overhead equipment and feeders for erection of equipment which joins equipment already

energized or on energized equipment which calls for a power block by switching off of traction power.

The amount payable under this item shall be arrived from the amount payable for non-power block erection portion of work for the corresponding item computed by loading the percentage over/at par/below quoted by the tenderer, provided such work is not called for on account of non-compliance with specifications approved drawings and instructions given by the Purchaser from time to time. The extra rates on erection for the work under a power block is not applicable to the items covered under Non-SOR schedule, as the rate for these items includes the work under power block or otherwise.

The extra erection rate under this item will not be payable if power block is given in an elementary section/ sub-sector for a total duration of 4 hours or more in a day. The duration can be in one or more spells. In the case of works which warrant power block in more than one line, the duration of power block will be reckoned as under.

The power block time will commence/ends from the time power block is availed on the first line and to the cancellation time of the line which ever cancelled later. Where the prices under this item are applicable the contractor shall finalize the quantities of various items of work to be done under a power block, jointly with the Purchaser's Engineer prior to taking the work in hand. This extra rate is inclusive of provision of earth rods during power block hours for any type of works (earth rods will be owned by the Contractor conforming to RDSO specification No. ETI/OHE/51 (9/87) Correction slip No.1) under the clear guidance of authorized Railway Representative/Engineer at site.

The power block time will commence / end from the time Power Block is availed / cancelled from TPC/ASM. The contractor shall arrange for adequate lighting with generator set/Petromax lamps at work site when the work is carried out during nights.

Note: The requirement of power block shall be ascertained by the contractor in consultation with Railway Site in-charge and the power block requirement thus finalized shall be submitted at least 5 days in advance. If sufficient power block is arranged as per the pre-planned schedule, the contractor is not eligible for any extra payment on account of Power block. If contractor staff available for execution of work and the planned work could not be done due to the absence of sufficient power block, contractor is eligible for extra payment on account of power block. Further, the power block is made available as planned and if planned power block work could not be done due to the failure of contractor, no extra charges will be given for execution of the same work on a later stage by availing Power block. Power block requirement is a safety aspect which is to be ensured by Railway site in-charge. Railway site in-charge is empowered to take a decision as to whether power block is required or not irrespective of the availability of clearance actually available at site and any such decision shall be binding on the contractor.

Sl. No. 18 Item no. NS-1– Supply of 40 x 6mm Hot Dip galvanised Iron Flats having 750g/sqm or above Zinc coating confirming to RDSO specification no. ETI/OHE/13(4/8) with ACS 1 to 4 (Actual length of bonds fabricated and physically erected at each location only will be measured for payment)

The price shall cover supply of 40x6mm size hot dip galvanized GI flats for fabrication of various types of bonds. The GI flats shall have a minimum galvanization thickness of 750g/sqm or above Zinc coating confirming to RDSO specification no. ETI/OHE/13(4/8) with ACS 1 to 4. The actual length of the bond after fabrication and erection at each location will be measured at site and payment will be released for the actual length of the bond. The length of the bond erected at each location shall be recorded in the DPR. Contractor shall take care of the wastage of material while offering the rates and no payment will be admissible for the wastages. 70% payment will be released on supply of the material and balance payment will be given only after fabrication and erection of bonds. Even though 70 % payment is given against supply, the total payment will be given for the actual quantity utilized only and any excess payment is happened due to wastage, same will be deducted from the cost of other items.

Sl. No. 19 Item no. NS- 2– Fabrication, application of cold galvanizing paint transportation and erection of structure bonds

The price offered shall cover supply of insulation sleeve and the cost of shaping and drilling of the bond and erection of all components including the Bond. The rate will be per bond. The price offered is also inclusive of the cost of making necessary holes in rails and chamfering the hole head to have proper tightness of the bonds with rail. No extra payment will be admissible for making rail holes chamfering the hole. The structure bonds have to be connected to the nearest non track circuited rail. If the bond is crossing track circuit rail, 40mm PVC sleeve shall also be provided in the bond flat and no extra payment will be given for the same. The sleeve length shall not be less than 300mm. The structure bonds in the plat form have to be laid by chipping the platform surface and bury the bond inside the groove. Concrete shall be provided above the bond flat duly maintain the level of the PF surface. Payment for digging the concrete surface and leveling the same with concrete will be paid under 2(a)(i). If the overall length of the bond exceeds 6m, the same will be paid under NS-5. In platform area double cleating arrangement to be provided as per RDSO drawing No.ETI/OHE/P/7000(Rev-F).

Sl. No. 20 Item no. NS-3 – Fabrication, application of cold galvanizing paint transportation and erection of Longitudinal/U- bonds

The price offered shall cover supply of insulation sleeve and the cost of shaping and drilling of the bond and erection of all components including the Bond. The rate will be per bond. In Feeding post area longitudinal bonds shall be provided as per RDSO design. U 'shaped bonds which are provided in the points and crossing will be paid under this item. The price offered is also inclusive of the cost of making necessary holes in rails and chamfering the hole head to have proper tightness of the bonds with rail. No extra payment will be admissible for making rail holes chamfering the hole. 40mm PVC sleeve shall be provided wherever the bond crosses signal rail. If the overall length of the bond exceeds 6m, the same will be paid under NS-5.

Sl. No. 21 Item no. NS-4 – Fabrication, application of cold galvanizing paint transportation and erection of Transverse/Special bonds

The price shall cover supply of insulation sleeve and the cost of fabrication, transportation and erection of Impedance bonds / Transverse Impedance bond connecting rails of the same/adjacent tracks at the locations and specified by the Purchaser. The price shall also cover the fabrication of special bonds over bridge/protective screen at a level crossings, foot over/road etc for which the location will be specified by the Purchaser. If the overall length of the bond exceeds 6m, the same will be paid under NS-5. The price shall be inclusive of the cost of shaping and drilling of the bond, painting and erection of all materials including the bond. This will be paid per bond. The price shall also include provision of heat shrinkable PVC sleeve of minimum length of 40 cm whenever it is required. 40mm PVC sleeve shall be provided wherever the bond crosses signal rail.

Sl. No. 22 Item no. NS-5 – Fabrication, application of cold galvanizing paint transportation and erection of Structure/Longitudinal/Transverse/Special bonds having length more than 6 m long.(The jointing of bonding flat shall be but welded with 10 cm overlap and the joint shall be painted with cold galvanizing paint)

The price shall cover supply of insulation sleeve and the cost of fabrication, transportation and erection of various bonds under item nos. NS-2, 3 and 4 but having length more than 6 m will be paid under this item. The bonds having more than 6 m length shall be fabricated by jointing two flats with 10 cm overlap by continuous welding. All the welded surface shall be cleaned and cold galvanizing paint of good quality shall be applied. Also for crossing the track circuited rail, 40mm PVC sleeve shall be provided in bond strip to avoid contact between bond and track circuit rail with length not less than 300mm. No extra payment is admissible for applying cold galvanizing paint and fixing PVC sleeves.

Note for Item Nos. NS-2, 3, 4 and 5:

1. The OHE traction bonds should be fixed to the rail and connected in such a way that they do not interfere with tamping tools during tamping as shown in drawing No. CE/570. The traction bonds shall be connected to the rail at a distance of not more than 80 mm from the adjoining sleepers.

2. Drilling of holes in the rails shall be done only with prior approval of authorized Railway official and drilling should be done in the presence of nominated Railway official.
3. All holes drilled to the rail shall be chamfered soon after drilling.
4. Drawing No. CE/570 showing the fixing arrangement of traction bonds to be followed strictly.
5. If any bonds provided and got damaged by the packing machine during track alignment work etc, the same shall be replaced for which payment shall be made at the rates given under item Nos. NS-2, 3, 4 or 5, as applicable and the contractor shall set right/replace the same before handing over the assets to maintenance.
6. In case of yard remodeling & signaling work being done in stages during doubling, the bonding works of the concerned yard will have to be modified at each stage as per the requirement. At each stage the payment will be made at the rate specified for that particular item.
7. Jointing of flats by welding is only permitted except in platforms where it is inevitable.
8. If old structure bonds, cross bonds/polarity bonds, longitudinal bonds from the existing line is to be released, for any purpose so desired by Railway engineer at site, erection rate under corresponding bond will be paid to the contractor. The bolt, nut and bond so released is to be accounted properly and handed over to the purchaser.
9. Bolt and nuts required for fixing the bonds will be paid under NS-6.
10. All the portion of the GI strip where galvanization is peeled off and the area of holes and cutting edges shall be painted with good quality cold galvanizing paint.

Sl. No. 23 Item no. NS-6 – Supply of HOT Dip Galvanised bonding bolts M16, 50/38mm with two numbers of plate washer and one spring washer and nut, confirming to RDSO specification (the Bolts shall be procured from RDSO/CORE approved manufacturer)

The price offered shall be for the supply of 16mm dia hot dip galvanised bolt 50mm long with plate washer spring washer and nut. The bonding bolt shall be procured from approved sources only.

Sl. No. 24 Item no. NS-7: Leading, loading, transportation and unloading of Railway supply OHE masts/portal components to work spots from anywhere to anywhere in TVC Division.

The price offered shall be inclusive of the cost of leading, loading and Transportation of Railway supplied OHE portal structures and OHE steel beam masts from anywhere to anywhere in Trivandrum Division. It may please note that the minimum quantity of steel needs to be transported in one load at one time i.e., from one place to another place, will vary from 3 tonne to full load as the case may be. No compensation will be given for transporting quantities lesser than one load is a single trip. The price offered shall be inclusive of the cost of leading and loading of OHE structures in trailer/truck by means of manual labour or machinery.

Chapter – 8

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**

Insulators for SOR item no. 4(a)(i)(b) 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. 33 of Special condition of contract (Technical).

CONTRACTOR 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	Overlapping 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 RAILWAY**MATERIAL 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			Contract or	SSE	Date	Quantity	Total issued			Contract or	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:

Name of the contractor:

Starting date of construction:

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						
					I	II	III	Avg.	Contractor	SSE		I	II	III	Avg.		Contractor	SSE

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