

Southern Railway

Palakkad Division

Tender Document

Senior Divisional Electrical Engineer (General Services)

June 29, 2025



Abstract

Tender Notice No.	: J/E - 14/2026-27/W
Name of the Work	: MAQ - Provision of 3 phase 750 V AC supply in pit lines / washing lines at Mangalore Central Railway Stations for LHB Coach Maintenance - Electrical Arrangements
Approximate Cost	: Rs. 3,03,87,417/-
Bid Security	: Rs. 6,07,800/- (Bid Security to be submitted as per clause No. 1.2 of Tender Document)
Tender Form cost	: Rs. Nil (As per Clause No.3 of Part-I of GCC for Works-April-2022)
Tender Closing Date & Time	: July 23, 2026 @ 11:00 hrs
Completion Period	: 9 Months

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1 INSTRUCTIONS TO TENDERERS

The President of the Union of India acting through the Senior Divisional Electrical Engineer, General Services, Palakkad Division, Southern Railway invites online tenders through official portal of Indian Railways E-Procurement System (IREPS) Website. It shall be noted that the president of the Union of India is not bound to accept the lowest or any tender or assign any reason for doing so and reserve the right to accept or discharge tender at any stage in respect of whole or any portion of the items specified.

The tenderers are advised to carefully read this Tender Document in conjunction with Indian Railways Standard General Conditions of Contract - April 2022 with amendments before participating in this tender.

1.1 Cost of Tender Form

Nil as per Clause No.3 of Part-I of GCC for Works-April-2022

1.2 Bid Security

1. The tenderer shall be required to deposit Bid Security as per clause-5 of Part I - Indian Railways Standard General Conditions of Contract
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 Appendix-I and shall be valid for a period of 90days beyond the bid validity period
3. Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above
4. Labour Cooperative Societies shall submit only 50% of Bid Security detailed above
5. If the tender is accepted, the Bid Security mentioned above will be retained as part Security Deposit for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract.
6. Bid Security of the unsuccessful tenderer(s) will be returned.

1.2.1 Bid Security in the form of Bank Guarantee

In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:

- (a) A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.
- (b) 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
- (c) **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.**
- (d) The Tender Security shall remain valid for a period of 90 days beyond the validity period.
- (e) 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.
- (f) 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
- (g) The envelope shall be addressed to the officer and address as mentioned in the tender document
 - (h) 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

1.3 Validity of Offer

The tenderer shall keep the offer open for a **minimum period of 45 days** from the date of closing of the tender 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 his full amount of Bid Security.

1.4 Documents to be submitted along with the tender

1.4.1 Organization Setup

List of Personnel, Organization available on hand and proposed to be engaged for the subject work.

1.4.2 Details of M&P

List of Plant & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work.

1.4.3 Credentials

1. Documents testifying tenderer's previous experience and financial status should be produced along with the tender
2. Tenderer(s) who is / are not borne on the approved list of the Contractors of Southern Railway shall submit along with his / their tender
3. Certificates which may be an attested Certificate from the client, Audited Balance Sheet duly certified by the Chartered Accountant etc regarding contractual payments received in the past.
4. Certificates and testimonials regarding contracting experience for the type of job for which tender is invited with list of works carried out in the past.
5. List of similar works completed in the last three financial years giving description of work, organization for whom executed, approximate value of contract at the time of award, date of award and date of scheduled completion of work. Date of actual start, actual completion and final value of contract shall also be given.
6. List of similar works on hand indicating description of work, contract value, and approximate value of balance work yet to be done and date of award in the format at Appendix-A of the tender document.
7. For items 5 and 6 above, supportive documents / certificates from the organizations with whom the Contractor has worked / are working should be enclosed.
8. Certificates from Pvt. individuals for whom such works are executed / being executed will not be accepted.
9. The Railway reserve 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 or lack of such verification, by the railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the railway thereunder. (RB letter

No.2017/Trans/01/Policy dated 08.02.2018).

10. (a) In case of any information submitted by tenderer is found to be false forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security Amount besides banning of business for a period of upto five years.
(b) In case of any information submitted by tenderer is found to be false forged or incorrect after the award of contract, the contract shall be terminated. Bid Security, Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of upto five years.
11. 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. RB letter No. (RB letter No.2017/Trans/01/Policy dated 08.02.2018).

1.4.4 NEFT Mandate Form

The tenderer should provide NEFT details as per the format at Appendix-B of the tender document.

1.4.5 EPF Registration Details

The tenderer should provide EPF Registration details as per the format at Appendix-C of the tender document.

1.4.6 Statement on Employment of Retired Railway Employees

1. The Contractor shall submit a statement to the effect that no retired Engineer or retired Gazetted Officer is associated with the tenderer as per Appendix-D
2. If any retired Railway Employee is employed/have partnership then 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.
3. Tenders without the information above referred to or a statement to the effect that no such retired Engineer or retired Gazetted Officer is so associated with the tenderer, as the case may be, shall be rejected.

1.5 Participation of Partnership Firms

1. Participation of Partnership Firms in works tenders will be allowed subject to conditions mentioned as per clause No. 18 of Annexure I of Part I-GCC April-2022
2. The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / company / Joint Venture (JV) / Registered Society / Registered Trust etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.
3. In case tenderer is other than sole proprietorship firm, necessary documents as per clause No. 14 (II) of Annexure I of Part I-GCC April-2022 shall be submitted by the tenderer.
4. If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.
5. After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society etc. shall be neither asked nor considered, if submitted.

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

1.6 Participation of Joint Ventures

Joint Venture Firms are not allowed to participate in this tender since the value of the work is below 10 Crore. (Authority: Railway Board letter No. 2002/CE-I/CT/37 JV Pt.VIII, dated 14.12.2012)

2 GENERAL INSTRUCTIONS TO SUCCESSFUL TENDERERS

2.1 Submission of Documents by Successful Tenderer

On receipt of Letter of Acceptance from Railways, the successful tenderer should submit the following certificates in original in the Railway prescribed form.

1. A Letter from firm to Senior Divisional Electrical Engineer, General Services, Southern Railway, Palakkad – 678002 stating that the terms and conditions mentioned in LOA has been accepted
2. Power of Attorney for signing in the Agreement in the Measurement Book & for all purposes
3. Performance Guarantee as per Para 16(4) of Part II - Indian Railways Standard General Conditions of Contract, April-2022

2.2 Security Deposit

The successful tenderer shall be required to furnish the necessary security deposit as per clause-16 (1) of Part II - Indian Railways Standard General Conditions of Contract, April-2022

2.3 Performance Guarantee

The successful bidder shall have to submit a Performance Guarantee (PG) valuing 5% of the contract value drawn in favour of Senior Divisional Finance Manager, Palakkad Division, Southern Railway as per Para 16(4) of Part II - Indian Railways Standard General Conditions of Contract, April-2022

2.4 Signing the Agreement

The successful Tenderer(s) shall be required to execute an agreement with the President of India acting through the Senior Divisional Electrical Engineer (G), Palakkad Division, Southern Railway for carrying out the work according to Standard General Conditions of Contract, Special Conditions / Specifications annexed to the tender and Standard Specifications (Work and Materials) of Railway as amended/corrected upto latest Correction Slips, within Seven days after receipt of notice issued by the Railway that such documents are ready as per Clause No. 8 of Part-I of GCC and Para No.13 of Annexure-I (Second Sheet)

2.5 Issue of Identity Cards by Contractor

1. Contractor is bound to issue Identity card as per Railway's prescribed format at your cost to each and every person deployed for execution of the Contract work. The attested Xerox copy of Identity card issued to each and every person should be submitted to this office on receipt of Work Order/Letter of acceptance from Railways. Failure on your part to issue identity cards to your employees will be treated as breach of contract conditions and therefore will be dealt as per GCC.
2. It is mandatory on the part of every employee deployed by you to keep identity card in his possession, issued by you throughout the execution of work. Failure to do so will be treated as unauthorized presence in the Railway premises. Such persons shall be liable for prosecution as per Law
3. The Police verification of the contract laborers utilized for the subject work should be got done before allowing them to work on Railways

2.6 Tools & Plants

All tools, tackles, instruments and materials required by the contractor, in connection with installation, erection, testing and commissioning of the whole equipment included in the contract shall be provided by the contractor at his cost. The contractor shall make his own arrangement for the entire work of installation and erection at site. The Railways shall not be in any way responsible for any loss or damage or deterioration which may happen to or in respect to such tools, instruments and materials either by the same being lost, stolen, injured or destroyed by any case what so ever. This clause shall not anyway diminish the liability of the contractor to execute the works in terms of the contract.

2.7 Storage Space

Railway will make all necessary arrangements for storing the materials required for executing the work to the extent possible available at site, free of cost. It shall be the responsibility of the firm to take care of the materials stored. If necessary they may undertake suitable insurance policy. However, provision of storage space shall not be put forward as a condition for timely completion of work.

2.8 Water & Electricity

The Railway shall supply raw water required for the construction work at free of cost to the extent possible. Electricity for construction shall also be made available to the extent possible by the Railway to the Contractor on payment basis at prevailing rates. However, the inability of Railways to provide electric power for any reasons (eg. Load shedding by E.B's, other administrative constraints etc.,) should not be put forth as a reason for delay in execution of work.

2.9 Quality Assurance Registers

For Quality Assurance, maintenance of various registers on the part of Railways as well as the contractor for the subject works contract is necessary for system improvement as per CVO/MAS Lr. No. VO/PC/L/2012/10/039/CMS, dt. 12-02-13. Hence, the following registers are to be maintained in the subject works contract depending upon the nature of work at site

Sl.	Name of Register	To be Maintained by
1	Site Order Book	By Firm
2	Hindrance Register	By Firm
3	Material Transaction Register	By Firm & Railway
4	Daily Progress & Labour Register	By Firm

Table 1: Quality Assurance Registers

These Registers are to be maintained at site and should be produced during inspection by Officials. The format for maintaining the above-mentioned Registers are given in Appendix E, F, G, H

2.10 Variation in quantities

Variation in quantities shall be as per Clause No. 42 (2) of Indian Railways Standard General Conditions of Contract, April-2022 or latest.

2.11 Compliance to Statutory Regulations

The work shall also confirm to the following acts rules & codes applicable:

1. Indian factories Act.
2. Indian Boiler Act.
3. Indian Explosive Act.
4. Indian Electricity Rules.
5. National Buildings Code.
6. Indian Standard Specification wherever applicable.
7. Minimum Wages Act, Shramikkalyan, PMJJBY, PMSBY etc.

2.12 Accident, Safety of Men and Material

1. The contractor shall be fully responsible for ensuring safety at all times and shall bear the cost of all damages in cases of accidents/ unusual occurrences resulting in damages to Railway property.
2. The contractor must ensure the safety of laborers engaged by him while handling the materials/transporting the materials from one place to other places during the course of execution of work and the Railway will not be responsible for any injury sustained by the laborer or any fatal accident and the contractor should bear all the loss and expenditure involved.
3. The Contractor shall take all precautionary measures not only for protection of his own personnel moving about or working on the Railway premises, but also confirms to the rules and regulations of the Railways in this respect.
4. The contractor shall not permit their staff to work on the posts carrying overhead conductors or any other current carrying parts unless he receives in writing the permit to work from the authorized Railway representatives. He shall have to ensure that the supply lines are dead earthed before commencing the work on the overhead conductors or any other current carrying parts.

2.13 Labour

The successful tenderer shall comply with the provisions related to Minimum Wages Act, Employees Provident Fund Scheme, Employees Deposit Linked Insurance Scheme etc., as mentioned in Clause 54 to 60 of Indian Railways Standard General Conditions of Contract, April-2022 or latest. Contractor should encourage employees to join PMSBY & PMJJBY. In addition to above, Contractor should comply with all provisions of Contract Labor (R&A) Act 1970 and Central Rules 1971 and Interstate Migrant Workmen (RE&CS) Act 1979 and Central Rules 1980

2.13.1 Updation of Labour data on Railway's Shramikkalyan portal

1. 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 Conditions of Contract, April-2022. 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 on the portal within 7 days of receipt of such request.

- (b) Contractor once approved by any Engineer, can create password with Login ID (PAN No.) for subsequent use of portal for all LOAs issued in his favour.
 - (c) The contractor once registered on the portal, shall provide details of his Letter of Acceptance (LOA)/Contract Agreements on shramikkalyan portal within 15 days of issue of 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, contract shall fill the salient details of contract labours engaged in the contract and ensure uploading 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.
2. While processing of any 'On Account bill' of '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".

2.14 Swachh Bharat Mission

The contractor must maintain a clean work area. Not only after the completion of contract, but he should also continue to clean the work area during the performance of the contract. Milestones for periodical cleaning of debris and dumping in nominated areas can be the running bills of the contract. Thus the following should be done.

1. A spot for dumping of the debris should be identified.
2. Each bill will be accompanied by a certificate by the concerned railway supervisor that the debris for the work done till the stage of payment (for which the bill is being put up) has been cleared and dumped at the nominated site. This will also be subjected to check by officers as per the provisions of test check.
3. The supervisors in the field should be asked to nominate the dumping spot for the debris and advise the contractors in writing.
4. This has to be ensured at the time of bill payment.

2.15 Transparency in Governance

A board should be erected at work sites indicating the name of work, approx. cost, expected date of completion, name & address of the Contractor and address of Engineer on a proper steel Board of size not less than 1m x 1m.

1. All the work site for works more than Rs.10 Lakh should have a board as above mentioned.
2. The pattern and the information to be provided should be taken from State Government boards.
3. The Board should be large enough to be easily visible, similar in size to those provided by the State Govt.
4. All bills submitted should carry a certificate from the concerned supervisor that "Good Governance Board has been installed at the work site".
5. This has to be ensured at the time of bill payment.

2.16 Noteworthy Instructions

1. The work shall be carried-out in consultation with and in the presence Senior Divisional Electrical Engineer, Southern Railway, Palakkad-2 or his authorized representative at site. In case of any difference of opinion in 'execution of work', the decision of Sr.DEE/G/PGT or his authorized representative shall be final.
2. The work shall be carried out generally in conformity with the Railway specifications, except as amended or modified by these special conditions and directions if any in writing by the Engineer-in-charge of the work and also in conformity to Indian Electricity Rules & Regulations as amended from time to time and also conforms to Southern Railway specifications used for this purpose.
3. The program and method of work shall have to be furnished by the contractor well in time in consultation with Engineer -in-charge of the work.
4. Contractor will follow all security procedure and shall obtain necessary permits/gate passes as prescribed by Railways for entry of personnel or bringing in or taking out the material concerning the contract.
5. No free passes or transport will be arranged by the Railways for the movement of contractor and his staff.
6. Communication handed over to the contractor's personnel at sites/over phone/FAX/mail shall be deemed to have reached his office.
7. The several documents forming the Contract are to be taken as mutually complementary to one another.
8. No claim whatsoever will be entertained by the Railway on account of any delay or hold up of the work(s) arising out of delay in approval of changes, modifications, alterations, additions, omission or due to any other factor on Railway account.
9. All expense incurred towards the transportation of contractor's staff and material and daily allowance of the contractor's personnel shall be borne by the contractor.
10. Contractor shall normally be allowed to carry out the work during day time only.
11. This contract shall be governed in all respects by the prevailing laws in India and governed by General and special conditions of Indian Railways.

2.17 Termination of the Contract

As per Clause No. 62 of the General Conditions of Contract, the owner reserves the right to terminate the Agreement forthwith after giving 7 days' notice in case the contractor or Service Engineer fails to attend the repeated complaints of the owner or the services or contractor's work is found unsatisfactory.

2.18 Settlement Of Disputes

Settlement Of Disputes shall be as per clause 63 and 64 of Indian Railways Standard General Conditions of Contract, April-2022 or latest.

3 SPECIAL CONDITIONS OF CONTRACT

These special conditions should be read in conjunction with the General Instructions of this tender and Indian Railways Standard General Conditions of Contract April-2022 with amendments or latest. In the event of any conflict or inconsistency between the Indian Railways Standard General Conditions of Contract and Special Conditions of Contract, the provisions of Special Conditions of Contract contained herein shall prevail.

3.1 Name of the work

MAQ - Provision of 3 phase 750 V AC supply in pit lines / washing lines at Mangalore Central Railway Stations for LHB Coach Maintenance - Electrical Arrangements..

3.2 Place of work Execution

Mangalore Central Railway Station, Dakshina Kannada (Dist.), Karnataka (State)

3.3 Electrical Contractor License (Mandatory)

The work shall only be carried out by the contractor having valid Electrical contractor license issued by the Government of Tamil Nadu / Kerala /Karnataka / any other State for carrying out the installation work of the voltage class involved. Copy of the Electrical Contractor License shall be submitted online along with the bid. **Non-submission of same by the bidder shall result in summarily rejection of his/their bid.**

3.4 Eligibility Criteria

The tenderers are required to satisfy the following conditions since work is costing above Rs. 50 lakhs:

Sl. No	Certificate	Minimum Criteria
1	Technical Eligibility Criteria:	<p>(a) The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:</p> <ol style="list-style-type: none">1. Three similar works each costing not less than the amount equal to 30% of advertised value, or2. Two similar works each costing not less than the amount equal to 40% of advertised value or3. One similar work each costing not less than the amount equal to 60% of advertised value <p>Note: Separate completed works of minimum required values for each component can also be considered for fulfillment of technical eligibility criteria for different components.</p> <p>*Similar Single work is defined as " Works involving supply, installation, testing and commissioning of outdoor/indoor substation equipments of 11kV or above voltage ".</p>

2	Financial: Eligibility Criteria	<p>The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited</p> <p>The average annual contractual turnover shall be calculated as an average of “total contractual payments” in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.</p> <p>The tenderers shall submit requisite information as per Appendix-J, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p>
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The tenderer shall submit along with the tender document, documents in support of his/their claim to fulfill the eligibility criteria as mentioned in the tender document. Each page of the copy of documents/certificates in support of credentials, submitted by the tenderer, shall be digitally signed by the tenderer or authorized representative of the tendering firm. Self-attestation shall include signature, stamp and date (on each page).

The tenderers shall ensure online submission of Annexure-V of GCC stating that all their statements/documents submitted alongwith bid are true and factual, without fail. (Ref: Railway Board letter No. 20221 CE-UCTIGCC Correspondence, dated 14.05.2024). In case of other than Company/Proprietary firm, Appendix-K shall also be submitted by the each member of a Partnership Firm/Joint Venture (JV)/ Hindu Undivided Family (HUF)/ Limited Liability Partnership (LLP) etc. as the case may be. **Non-submission of above certificate by the bidder shall result in summarily rejection of his/their bid.** It shall be mandatory incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.

Tenders not accompanied by documentary evidence in support of eligibility criteria will be rejected. No post tender communication in any form will be made or entertained, after opening of tenders, in this regard.

3.5 Completion Period

1. The entire work shall be completed within **09 Months** from the date of LOA. The work should be started immediately from the date of submission of PG as per terms & conditions of contract after acceptance of LOA.
2. In case if the entire work is not able to complete within the given period, the extension of time will be granted as per clause 17 of GCC April-2022 or latest. The Contractor shall apply for extension before 15 days of expiry of the period of completion.

3.6 Supply of Materials

In case where makes are specified in the LOA/tender conditions, Contractor shall strictly adhere with those makes only. If such makes are not available in the market, then contractor can supply the items of makes as per the provisional list of Approved Makes enclosed alongwith this document. Any deviation from the above shall have the prior approval of Sr.DEE/G/PGT.

Contractor shall ensure all materials / fittings /appliances etc. used in electrical installations shall conform to BIS Specifications wherever these exist. The materials brought from valid CPWD approved makes/suppliers at the time of execution of work are also accepted.

Note –(W.r.t CEGE letter No. E.252/1/8/Circular, dated 25.03.2025)

1. All cables will be accepted only with Original NABL/WTC test certificate
2. All NABL/WTC test certificates for cables must include the following details.
 - (i) Batch No./Drum No./Lot No./Serial No. of Tested cable.
 - (ii) LOA/Agreement No. as a reference, with the Railway mentioned as the Consignee/customer.

The WTC should be issued on the official letter head of the manufacturer (OEM). Additionally, documents supporting the purchase of materials from an ISI certified manufacturer should be submitted along with the materials.

3.7 Date of Acceptance

The date of successful completion of the prescribed tests at site after installation and handing over the Substation to the Railways after approval by local statutory body/ Engineer-in-charge that the substation is fit for service shall be taken as the date of acceptance. The warranty/ free maintenance period shall commence from this date

3.8 Deployment of Qualified Engineers at Work Sites by the Contractor

1. **The Contractor shall employ 1 No. of qualified Graduate Engineer for works Rs. 200 Lakh or more and 1 No. of Diploma Engineer for works costing more than Rs. 25 Lakh, but less than Rs 200 Lak.**
2. In case the Contractor fails to employ the qualified Graduate Engineer or Diploma Engineer, as aforesaid in above Para, he shall be liable to pay penalty at the rate of Rs. 40,000/- or Rs. 25,000/- respectively for each month or part thereof for the default period for the provisions contained above Para. (Authority: Railway Board's letter no. 2012/CE-I/CT/O/20, dated 10.05.2013)

3.9 Guarantee

1. The work carried out shall be guaranteed against manufacturing defects and/or workmanship and for its satisfactory performance **for a period of 12 months** from the date of commissioning. Necessary warranty certificate obtained from manufacturer for the material supplied by the contractor shall be submitted to Railways at the time of commissioning.
2. **The LED light fittings shall be warranted for a minimum period of 60 months** by the manufacturer. Necessary warranty certificates shall be handed over to Railway by the contractor. For LED Light fittings & BLDC fans procured through Works Contract - deferred Payment will be applicable to handle with its warranty claims: (Authority – PCEE/SR's letter No. E.252/1/8/Stores, dated 04.10.2024)
 - a. 70% of the accepted contract value after supply of LED luminaries and BLDC fans.
 - b. 5% of contract value after erection, testing and commissioning of luminaries and BLDC fans.
 - c. I) 25% at the rate of 5% at the end of every year of warranty period of 5 years for LED luminaries and BLDC fans.

Or

 - II) 25% of deferred payment may be released on submission of a valid Bank Guarantee (BG) equivalent to the 25% of contract value by the contractor which shall be retained by the Railway for the entire warranty period.
3. During the course of guarantee period, in case any defect is noticed due to faulty workmanship or defective materials used, necessary repair has to be arranged to the entire satisfaction of the Railway and such works will be carried out at contractor's risk and cost.

3.10 Penalty for Unsatisfactory Performance

1. If the contractor fails to carryout, execute and complete the work to be done by him under this contract to the entire satisfaction of railways then Railway may impose penalty as deemed based on the merit of the case by Competent Authority.
2. In case of delay in warranty attention beyond the time limit specified then also penalty as desired by Competent Authority will be imposed.

3.11 Penalty due to unsafe working

1. In the event of accident at the work site on account of contractor's negligence or by the negligence of his men, penalty up to an upper limit of 10% of total cost of the work shall be imposed on the contractor.
2. The Railway administration reserve, the right to terminate the contract with immediate effect if the contractor is found responsible for causing an accident, without giving any further notice to the contractor.
3. In the event of contractor starting the job without supervision causing of accident he will be prosecuted under Railway act for unlawfully interfering with the railway track and the contractor should bear the actual losses, compensation with damages to the railway property. In addition, a penalty of | 20,000/- for every such case shall be chargeable on the contractor.

3.12 Penalty for Cable Damages

In case of any damages to Railway cables during execution of the work, penalty will be imposed for damaging the cables (i.e. QUAD, OFC Signaling cable, Electrical cable etc.,). The details of penalty will be as follows,

Nature of Cable damage	Penalty per location
Only QUAD cable or signaling cable	Rs.1 lakh
Only OFC	Rs.1.25 lakh
Both OFC & QUAD	Rs.1.5 lakh
Electrical cable	Rs.1.0 lakh

{Authority: DRM/PGT letter No.J/SG/162/OFC/INT, dated 03.04.2024}

3.13 Inspection

1. The contractor shall make arrangements for inspection of materials by RITES for schedule items whose total value cost Rs. 5 lakh or more and submit the inspection certificates
2. **RITES Inspection Fee to be paid by the Contractor**
3. The inspecting officer(s) for this contract shall be the Senior Divisional Electrical Engineer/GS/PGT or his authorized representative. The inspection shall be carried out at the sole discretion of Railways.
4. All installation and erection work shall be subject to the inspection by the Inspection officer(s) to ensure that the work is done in accordance with a specification, approved designs and drawings of the best quality suitable for the purpose.
5. The contractor shall arrange all materials, equipments, tools, labour and maintenance of every kind at free of cost, which the Inspecting Officer or his authorized representative may consider necessary for any test, inspection and examination.

6. In case of any difference of opinion regarding quality of work or quality of the materials, the decision of the Engineer-in-charge shall be final.
7. No equipment/stores will be considered ready for dispatch until the Railway or the Inspecting Officer nominated by it shall have certified in writing that they have been inspected and approved by him or such inspection is waived subject to final performance.
8. The authorized Railways Representative shall have access to the contractor's premises and have powers to "Inspect and examine the materials and workmanship of the work at any time during the manufacturing at the manufacturer's premises or in the premises of the sub contract or at the site of the erection"
9. The decision of the Inspecting officer as regards the acceptance or rejection of the equipment/work shall be final and binding on the contractor. On the equipment/work being rejected by the Inspecting Officer or the Railways at destination, the contractor shall replace such rejected equipment/portion of the work forthwith within two weeks from the date of rejection. The Contractor shall bear all the cost of such replacement including freight etc., but without being entitled to any extra time on this account.

3.14 Clearance of the Electrical Inspector

1. The Contractor shall be responsible to obtain necessary licensee from respective State Electrical Inspector before commissioning as per the present rules
2. The Contractor shall provide all drawings & other details in adequate copies as necessary for submission to the Chief Electrical Inspector at no extra cost.
3. Any modification alterations/ corrections as may be necessary as pointed out by the Electrical Inspector during his inspection shall be carried out free of cost by the contractor to bring the system/equipment to the standard of performance & safety as desired by the Electrical Inspector.

3.15 Price Variation

No price variation for this contract will be applicable. The price value quoted by the contractor and accepted by the Railway shall be treated as firm during the entire period of completion of work.

3.16 Terms of Payment

1. On account Payment of 50% of the Schedule value will be made for schedule items costing above Rs. 5 lakhs against the supply of equipments, components, fittings and materials @ work site, required for execution of the work, if desired by the contractor on fulfilling the following conditions
 - a. Copy of GST Invoice for the materials supplied shall be submitted
 - b. Furnishing of factory test/RITEs inspection certificate as per special conditions of contract.
 - c. Acceptance of the stores supplied by SSE-Electrical Incharge shall be produced.
 - d. Indemnity bond for the amount equivalent to the on-account payment to be produced.
 - e. The above prices are inclusive of GST, excise duty, Import duty, octroi and local levies
 - f. Balance payment will be paid after successful completion of the schedule item as per actuals.
2. Procedure for claiming payment will be as per the provisions contained in GCC, April-2022 or latest.
3. For LED Light fittings & BLDC fans procured through Works Contract - deferred Payment will be applicable as per clause No. 3.9.2.
4. Payment will be made as per the schedule of work, after inspection and testing by an authorized Railway's representative for the actual quantity of work carried out.

5. All the measurements are to be recorded online in IR-WCMS portal as per extant rule.
6. Based on the finalized measurements, Sr.DEE/G/PGT or his authorized representative will generate Online bill and the same will be forwarded to Contractor for acceptance. Contractor shall accept the same and attach all the related documents online and re-submit the same to Sr.DEE/G/PGT for verification and further processing for payment before passing the bill.
7. The bill-passing officer is Sr.DEE/G/PGT and the bill-paying officer is Sr. DFM/PGT.
8. All rates quoted in the tenders shall be deemed to be inclusive of CGST, SGST, IGST etc payable by the contractor to the Government or any public body and no additional amount/rate or claim will be entertained on this account by the Railways. Also no claim whatsoever will be accepted by Railways on account of revision of tax rates, new taxes of statutory nature by State/Central Govt.
9. Railways shall not be liable for any other charges except the rate accepted as per Price schedule. Under no circumstances, the rates quoted by the contractor and accepted by the Railways shall be enhanced during the entire period of contract.
10. Payment through Letter of Credit (LC)
 - (a) Contractor shall have option to take payment from Rly. through a Letter of Credit (LC) arrangement.
 - (b) This option of taking payment through LC arrangements 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.
 - (c) The option so exercised, shall be an integral part of the bidder's offer.
 - (d) 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.
11. The contractor should have registered their firms with ESI & EPF organizations. The following details have to be submitted along with contractor running bills.
 - (a) List of employees engaged by the contractor month-wise and their details such as name, DOB, Aadhar no. & address, EPF & ESI A/c. no. Bank & Branch address, amount contributed towards EPF & ESI.
 - (b) Attendance of employees.
 - (c) Payment to the contract labourers should be paid through bank / cheque. Proof of salary paid to them duly ensuring the latest minimum wages should be submitted.
 - (d) Statement showing amount deducted & deposited on their behalf of EPF.
 - (e) Medical facilities from ESI, if applicable and ESI deductions.
 - (f) Self-certified copies of vouchers received from EPF & ESI organizations
 - (g) While processing of any 'On Account bill' of '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".
 - (h) Contractor should encourage employees to join PBSBY & PMJJBY

3.17 Taxes and other Deductions

3.17.1 Income Tax Deductions

Recovery of income tax at source as per prevailing rate at the time of billing will be deducted from the bills as per extant rules and a certificate will be issued in Form No.16 for such deductions with each bill.

3.17.2 Goods and Services Tax

Supply of Goods & Services would be subject to GST Act and rules applicable from time to time in this regard.

3.17.3 Conservancy Charges

Conservancy Cess Charges shall be deducted from your bills based on average No. of Labourers/Workmen employed per day by you for the above work.

Sl	Average No. of Labourers or Workman Employed PER DAY	Conservancy Cess Charges to be recovered PER MONTH
1	01 to 05	Rs. 159
2	06 to 10	Rs. 312
3	11 to 25	Rs. 785

Hence you should furnish the list of name and age of each Labourers/Workmen employed per day by you for the above work and the same should be certified by the SSE in-charge. (Ref: As per clause No. 6 of General Conditions of Contract and the Railway Board letter No. F(X)1-95/1/1, dated 07-09-2021).

3.17.4 Taxes on Schedule Items of Work

1. The rate quoted by the Contractor in the Schedule of work is inclusive of Goods and Services Tax, duties, royalties, Octroi, Cess, Surcharge etc., payable by the Contractor to the Government or any public body as applicable to the work
2. No additional amount / rate or claim will be paid by the Railways on this account.

4 SPECIFICATION

4.1 Excavation of Cable Trench and method of Laying of UG Cable

1. The earth for cable trench shall be excavated in all kinds of soil and obstructions in the way of cable trench shall also be removed. The cable shall be laid at site generally following the cable lay out plans. The route will be marked by the Railway representative. The cable trench should be of 1.0m (1.2m for 11kV cable) depth and 0.30 m width or as required at site. The excavated earth should be filled back duly ramming for consolidation throughout the length of cable trench.
2. The cable trench will be inspected by the Railway's representative after which only subsequent operations such as riddled soil filling, laying of cables, placing of HDPE pipe shall be commenced.
3. The cable wherever laid across railway track / road shall be through RCC pipe or CI pipe of 150 mm (6") dia or as indicated in the schedule of work. The pipe shall be laid at 1.0m below the formation level. It shall be possible to withdraw the cable. The cable trench below the Railway track shall be 1.2 m deep. The cable should cross the Railway track at an angle of 90 Degree.
4. The cable wherever to be fixed on wall, the same shall be fixed with suitable MS clamp. The depth of trench required on platforms / flooring etc. shall be generally of 300 mm to 400 mm depth with or without sand and brick and as directed by the Engineer- in- charge at site.
5. All the Railway supplied materials shall be collected from SSE incharge of the work. Cost of loading, transportation, unloading and stacking of such material from Palakkad to work site shall be borne by the contractor

4.2 Layout of Wiring

1. Power circuits if any shall be kept separate and distinct from the light and fan circuits. The wiring shall be done in such a way to facilitate easy inspection. The wiring shall be carried out in an approved manner satisfying the relevant IS Specification, code of practice available and additional specifications applicable if any for concealed conduit wiring system.
2. No joints shall be permitted in the wiring. If any jointing of cables is found to have been carried out in the PVC pipe wiring, subsequently a penalty of Rs.500/-per joint will be levied and deducted. In addition to this, the contractor has to redo the portion of the wiring found to have been carried out with jointing at his own cost to an acceptable standard.
3. Necessary earth continuity connection shall be provided keeping in mind the maintenance requirements, safety etc. In addition to the above earth connection, the contractor is required to make separate earth pit and earth connections as detailed in the schedule of work.
4. The route of the wiring is to be decided in consultation with the authorized representative of Engineer-incharge. The wiring work shall be supervised by contractor's representative who shall possess a competency certificate by Electricity Board/Electrical Inspector.
5. The wiring point shall be catered by 2 Nos. of 1.5 Sq.mm (for Ph & N) and 1 No. of 2.5 Sq.mm (for Earth) PVC insulated multi strand flexible Cu. cable including supply & fixing of flush type switch, ceiling rose, pendent cord from ceiling to Light / Fan including earth continuity as per schedule.

6. The work shall be executed strictly as per approved samples.
7. Separate neutral for each wiring is to be run and neutral should be looped only in the control box and not in the ceiling rose or elsewhere.
8. As far as possible, conduits are to be laid only in the ceiling and not along the wall in the rooms.
9. Termination/looping of wiring cables in the control box/switch box shall be done using suitable connectors of required capacity. The wires shall not be connected by twisting them together.
10. The tenderer shall submit test certificates for all the materials supplied, wherever applicable.

4.3 11kV, 630A HT panel (Schedule item No. 5)

The scope of work includes supply, erection, testing and commissioning of indoor, floor mounted 11kV HT switch gear panel with one no. of 11kV, 630A, 26.3kA for 3 Sec Vacuum Circuit Breaker as incomer and two nos. of 11kV, 630A, 26.3kA for 3 Sec Vacuum Circuit Breakers as outgoing with proper arrangements for body earthing of VCB assembly. The VCB shall be Horizontal Draw out type fitted with Manual/Motor operated spring charging mechanism with 230V AC motor and motor control switch, shunt trip coil of 24V DC, closing coil of 24V DC, Auxiliary Contact 2NO + 2NC, Mechanical ON/OFF indicator, mechanical operation counter, Automatic safety shutters and push button.

The panel made of 14 SWG sheet steel enclosure duly powder coated shall have common base frame, 3 nos. of extendable double PVC sleeve insulated Aluminium bus bars of cross sectional area 600sq.mm for phases mounted on suitable 11kV support insulators, ON/OFF LED indicating lamps, trip push button, electric alarm horn with flash type indication lamp to indicate power failure and single phasing to work on suitable DC supply including battery, control wiring with PVC insulated copper conductors of suitable rating (not less than 2.5sq.mm) and appropriate colors, 2 nos. of numerical 3 phase over current and earth fault relays (Instantaneous IDMT relay with Microprocessor based) with suitable settings and necessary CT/PT arrangement, Master Trip Relay, Auxiliary relay, Digital, Ammeter, Digital Voltmeter, 6 Window annunciation Panel with alarm, Power pack 230V-24V DC, Breaker Control switch, MCB for AC & DC control, heater with thermostat and control switch, illumination lamp with control switch, plug & socket with control switch, one set of Indicating Lamps for VCB/LBS ON. OFF, Spring Control, Trip, Circuit healthy, DC ON, rear entry cable box fitted with glands and socket suitable for entry/exit of 3 nos. of 3 core 300sq.mm XLPE HTUG cable pointing vertically downwards for the incoming/outgoing supply with all other standard accessories conforming to relevant Indian Standards. The panel shall have proper earthing arrangements. The design particulars with all relevant data and drawings shall be submitted to Engineer-in-charge and got approved before starting fabrication.

Preferable Make of VCB: GE/Siemens/Crompton Greaves/ABB/L&T, etc.,

Preferable Make HT panel: Intrans/Megawin/Southern Switchgears/MEI/L&T. Inspection by RITES.

4.4 Compact Substation (with HV side RMU) (Schedule item No. 8)

The Scope work consist of Supply, Installation (on existing cement concrete foundation), Testing, Commissioning of outdoor, all-weather proof, Non-Walk-in type Compact Secondary Substation of robust construction, vermin & dust proof, capable of withstanding thermal & mechanical stresses as per the max Short Circuit rating at 11KV, 50 HZ, The prefabricated enclosure is to be fabricated out of suitable GI sheet steel & complying to protection degree of IP 54 (LT & HT switchgear compartment) & IP23 (for transformer), with suitable MS base Channel framework for rigidity, necessary covers & doors with safety interlocking, Earthing arrangement, ventilation arrangement, Internal light points & fittings, polyurethane painting, etc. complete as per CPWD specifications wherever applicable, including Supplying & Installation of the following in 3 separate compartments in the above CSS i.e one for HT panel, second for transformer and third for LT switch gear

4.4.1 HT Switchgear

The HT compartment shall be provided with 630Amps 350 MVA 11kV, 21kA for 3 sec. Fixed Manual Vacuum circuit breakers (DV module- direct cable connection module and VCB) in SF6 gas insulated Stainless steel enclosure with self-powered series trip microprocessor based numerical over current & earth fault relay (IDMTL + Inst.) for protection with 3 Nos Protection CT: 40/1 Amps, 2.5VA, 5P10, 1 No. Manometer etc as required and two numbers of 630A, SF6 gas insulated earthed electrically operated load break switch with remote tripping. with 630A copper busbar and all accessories.

4.4.2 Transformer

One number of 1.6 MVA, 11kV/750V DYn11 Oil filled fully hermetically sealed copper wound transformer (Preferable make: Schnieder/ Kotson/ABB/ Kirloskar/ Voltamp / Seimens / Nucon / Danish) with corrugated wall design & Top Bushings for LT with Off load tap switch of rating +5% to -5% in steps of 2.5%. Transformer total losses shall be as per Table-3 Energy Efficiency Star-1 (Level-1) of IS 1180 Part-I: 2014 or latest. Impedance and Temp Rise of Oil/Winding and shall be as per IS 1180 Part-1 2014 or latest. Transformer shall be fitted with, i) Oil Temperature Indicator with Alarm and Trip Contact, ii) Winding Temperature Indicator with Alarm and Trip Contact, iii) Interconnection between HT switchgear & Transformer by using 11kv UE grade, three numbers of single core 95 Sq.mm or three core 95 sqmm XLPE insulated Aluminium conductor cable with suitable termination & Interconnection between Transformer & LT switchgear using Copper busbars. Earthing by using 50x6 mm Copper Strips. Control cabling between WTI/ OTI of Transformer and HT panel etc. complete as required.

4.4.3 LT Compartment

- a) One number of 750V/800V/1000V, 2000A 4 pole 65kA (Ics = 100% Icu) draw out ACB with Microprocessor based Over Current, Short Circuit and Earth Fault Release, - 1 No,
- b) Load monitor of class 1.0 accuracy with RS 485 communication capability and with suitably rated CT's of 15 VA, 15P 10 accuracy for protection giving 3 phase display of different parameter like voltage, current, power, power factor, frequency, active power, reactive power, total power, energy, Maximum Demand etc - 1 No
- c) LED Type Indicating Lamps- R,Y,B Phase and ON-OFF-TRIP with 6A SP MCB protection - 1 Set with 2000A copper BUS bar having length not less than 50 cm for all the three phases and neutral.

4.4.4 General Specification

Package Sub-station shall have to be consisting of 11KV SF6 Ring Main Unit with breaker as protection + copper wound Transformer + Low Voltage Switchgear with all connection accessories, fitting & auxiliary equipment in an Enclosure to supply Low-voltage energy from high-voltage system as detailed in this specification. The complete unit shall be installed on a substation plinth (base) as Outdoor substation. Cost of foundation is not included under the scope of this item and will be paid under different schedule item. The Vacuum Circuit Breaker shall be used to control and isolate the 11kV/750V Distribution transformer. The transformer Low Voltage side shall be connected to air circuit breaker. The connection cables to LT panel shall be taken out from the ACB through 4 numbers of 2000A Copper Bus Bar. All equipment and material shall be designed manufactured and tested in accordance with the latest applicable IEC standards. The 11KV Package Substation Design must be as per IEC62271-202 or latest. The Switchgear and component thereof shall be capable of withstanding the mechanical and thermal stresses of short circuit listed in ratings and requirements clause without any damage or deterioration of the materials. The Enclosure of High Voltage switchgear-control gear, Low Voltage switchgear-control gear & Transformer of the package substation shall be designed to be used under normal outdoor service condition as mentioned. The enclosure should take minimum space for the installation including the space required for approaching various doors & equipment inside.

The outdoor enclosure shall be made of galvanized 2mm thick (minimum) Sheet Steel tropicalized to local weather conditions. The metal base shall ensure rigidity for easy transport & installation. Substation will be used in outdoor application hence to prevent enclosure from rusting/corrosion, welding should be avoided to the extend possible. The protection degree of the Enclosure shall be minimum IP54 for LT & HT switchgear compartment & IP23 for Transformer compartment. Proper / adequate ventilation aperture shall be provided for natural ventilation by way of Louvers etc. Transformer compartment has to be designed in such a way that, it meets IP class without any forced cooling arrangements. Considering the outdoor application of the substation the doors shall be provided with proper interlocking arrangement for safety of operator and to avoid corrosion door should have stainless steel hinges. Interconnection between HT switchgear and transformer shall be using 11KV UE grade single core three runs of 95 sq mm or three core Aluminum un armored XLPE insulated cable and between transformer and LT switchgear shall be using copper busbar of adequate size for rated current. The galvanized enclosure shall be Powder coated with colour specific to Light and Dark Gray combination or painted with Dark Gray epoxy paint.

Internal Fault: Failure within the Compact Substation due either to a defect, an exceptional service condition or mal-operation may initiate an internal arc. Such an event may lead to the risk of injury, if persons are present. It is desirable that the highest practicable degree of protection to persons shall be provided. The Design shall be tested as per IEC62271-202 or latest. Type test report of arcing due to internal fault should submitted for approval. **The Compact substation enclosure shall be tested for internal arc test as per relevant standards.**

Earthing : All metallic components should be earthed to a common earthing point. It shall be terminated by an adequate terminal intended for connection to the earth system of the installation, by way of copper flexible jumpers/strips & Lug arrangement. The continuity of the earth system shall be ensured taking into account the thermal & mechanical stresses caused by the current it may have to carry. The components to be connected to the earth

system are i. The enclosure of Package substation, ii, The enclosure of High voltage switchgear & control gear from the terminal provided for the purpose, iii, The metal screen & the high voltage cable earth conductor, iv, The transformer tank or metal frame of transformer, and v, The frame &/or enclosure of low voltage switchgear. An earth bus bar of size 50x 6mm copper of adequate length shall be provided in the CSS to ensure the earth continuity.

In RMU, SF6 GAS shall be used for the dielectric medium for 11kV RMU's in accordance with IEC376. The RMU shall be provided with an absorption material in the tank to absorb the moisture from the SF6 gas and to regenerate the SF6 gas following arc interruption. The SF6 insulating medium shall be constantly monitored via a temperature compensating gas pressure indicator offering a simple go, no-go indication. Fixed type Vacuum breakers insulated in SF6 gas shall be provided in the CSS. The RMU should be maintenance free, having stainless steel robotically welded enclosure for INDOOR RMU application. Low gas pressure devices- 1.4 Bar pressure. RMU should have full rating with 0.0 Bar gas pressure. RMU should be provided with self-powered Microprocessor Based 3O/C + 1E/F self-powered relay with Low and High setting for over current and Earth fault.

4.4.5 Transformer Detailed Specification on demand

The detailed specification of the 1.6MVA 11KV/750V package / compact substation will be issued to the successful contractor on demand before initiating procurement action.

Note:- Since 11kV/750V system is not a universal transformation. As such the Package substation unit consisting of all the HT and LT switch gears manufactured by any of the makes specified (Siemens, Schneider, L&T, Kirlosker electric and ABB) is also acceptable, provided the entire unit shall be guaranteed by the manufacturer of PSS. i.e Schneider make switch gears in Siemens make PSS/CSS unit or vice versa is acceptable provided the manufacturer of the PSS shall certify the guarantee of all the components in the PSS.

4.4.6 Inspection

The tenderer shall make arrangements for inspection of the CSS on completion by RITES/Consignee as per tender conditions and submit the calibration/test certificates.

4.5 Medium Voltage Main Distribution Board (MTMDB) (Schedule Item No. 9)

The MDB shall be fabricated with 10SWG CRCA sheet enclosure with an overall dimension of 6.2m (W), x 1.85m (H) x 1m (D). The MT MDB shall be cubicle type, dust and vermin proof floor mounted type, suitable for outdoor application, double door, front operated indoor panel boards type with concealed hinges, provided with neoprene gasket and panel lock arrangement etc. The panel board shall be powder coated after treating the completed panel with seven tank process with grey or ivory colour in mat finish. The MT MDB shall be provided with Two numbers of 800V, 65kA, 2000A, with Microprocessor based Over Current, Short Circuit and Earth Fault Release (LSIG), (icu=ics) Four pole draw out type Air Circuit Breakers (ACB) as incomer and five numbers of 800V, 65kA, 800A, Four Pole, Microprocessor based Over Current, Short Circuit and Earth Fault Release (LSIG), (icu=ics) fixed type Air circuit breaker as outgoing. The incoming side shall be provided with four numbers of 2000A bus bar of minimum 50 cm each for terminating the incoming cables. The MDB shall be provided with minimum 3.6m long 2000A copper busbar (current density shall not exceed 1.2A/sq.mm) four numbers each for phases and neutral. The panel shall be provided with multi-function meter with suitable PT and CT and indicators.

The bus bar shall be covered with heat shrinkable tape/sleeve of suitable colours and shall be totally enclosed type supported by fibre glass/epoxy insulators. The bus bar shall be provided with sufficient clearance as per IE rule and standards. The MDB shall have FRP sheet shrouding to cover live terminals, connections, etc. All the fasteners (with check nut, washers etc.) shall be of stainless steel. Earth bus bar of size not less than half the size of Main Bus bar made of copper strip with connection to all non-current carrying metal part shall be provided in the MDB. All ACBs and energy meters shall be provided within separate partitions. The MDB shall have louvers for air circulation at appropriate locations. The MDB shall also be equipped with neoprene rubber gasket for doors/openings and where ever required to make the MDB vermin and weather proof. The detailed drawing specifying the scheme and size of MDB, rating/make of switch gears and other relevant details of MDB shall be submitted to the Senior Divisional Electrical Engineer and got it approved. The fabrication shall be done according to the approved drawing only. The fabricated MDB shall be made available on completion for inspection of Engineer-in-charge at contractor's premises before painting. All the above specified switch gears and accessories shall be installed in the MDB with suitable connections as per the instruction of the Engineer-in-charge. The MDB shall be erected at the location marked by the Engineer-in-charge.

Bus bar chamber and cable chamber shall be distinctively marked for easy identification. Also all the switchgears, meters, indication lamps etc. shall have individual identification marks painted on the MDB as instructed by the Engineer-in-charge.

The tenderer shall make arrangements for inspection of the MDB on completion by RITES and submit the calibration/test certificates. Preferable Make of ACB & MCCB: L&T/Legrand/ ABB/ Siemens, GE

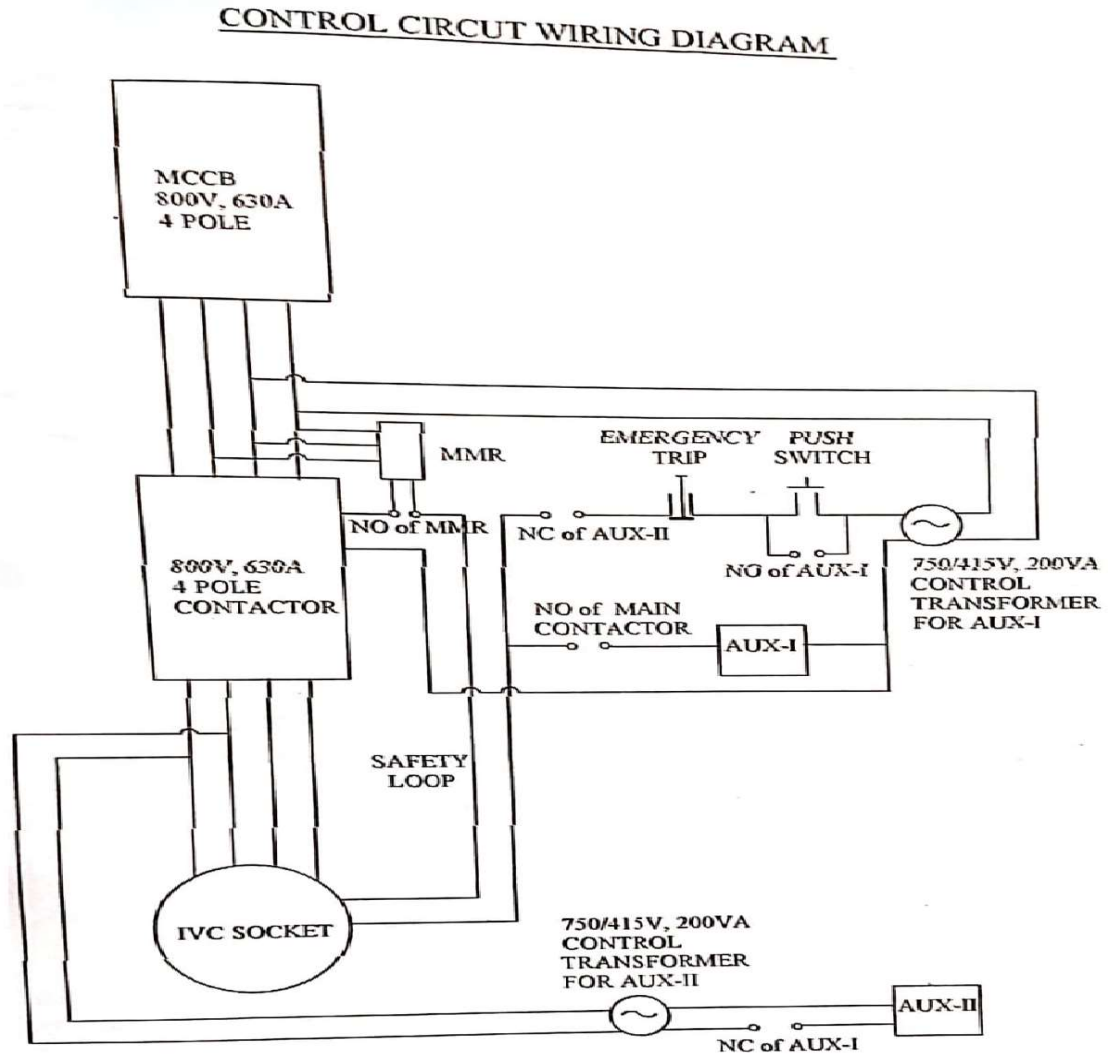
Note:-

- 1) In the above panel, in addition to the Five numbers of outgoing, only space for accommodating 1 No. of ACB has to be provided by the contractor.
- 2) Suitable capacity & length of bus bar to be provided in the said open space for accommodating future/upcoming 1 Nos of ACB.
- 3) Inter locking to be provided between incoming ACBs

4.6 Outdoor Type Kiosk (Schedule Item No. 14)

The scope of work shall consist of fabrication painting/powder coating, supply and fixing of suitable size outdoor type Kiosk with 10SWG CRCA sheet with suitable clamps for housing the following switch gear and accessories. The outdoor kiosk shall be fitted with 4 Nos. 100X10mm & 0.5m long copper bus bars, 1No. 800V, 630A 50kA 4 pole (icu=ics) MCCB as incomer, 1No. 800V, 630A 4 pole power contactor, 1No. Measuring & Monitoring Relay (MMR), 1No. ON/OFF push button switch, two auxiliary circuits each auxiliary circuit having 1No. 750/415V 200VA control transformer and 1No. Auxiliary contactor (1NO+1NC), 2 sets of HT fuse units & 2 sets of LT fuse units suitable for use in power panel of LHB variant EOG coaches including cable connections. The control circuit shall be wired as per Drg. Attached below using 2.5 sqmm copper wire. The MMR control transformer and LT/HT fuse units shall be procured from ICF/RCF/RDSO approved sources only. The drawing showing the size of the kiosk and make/grade of the materials, based on the drawing referred above shall be submitted for approval before initiating procurement.

Control Circuit Wiring



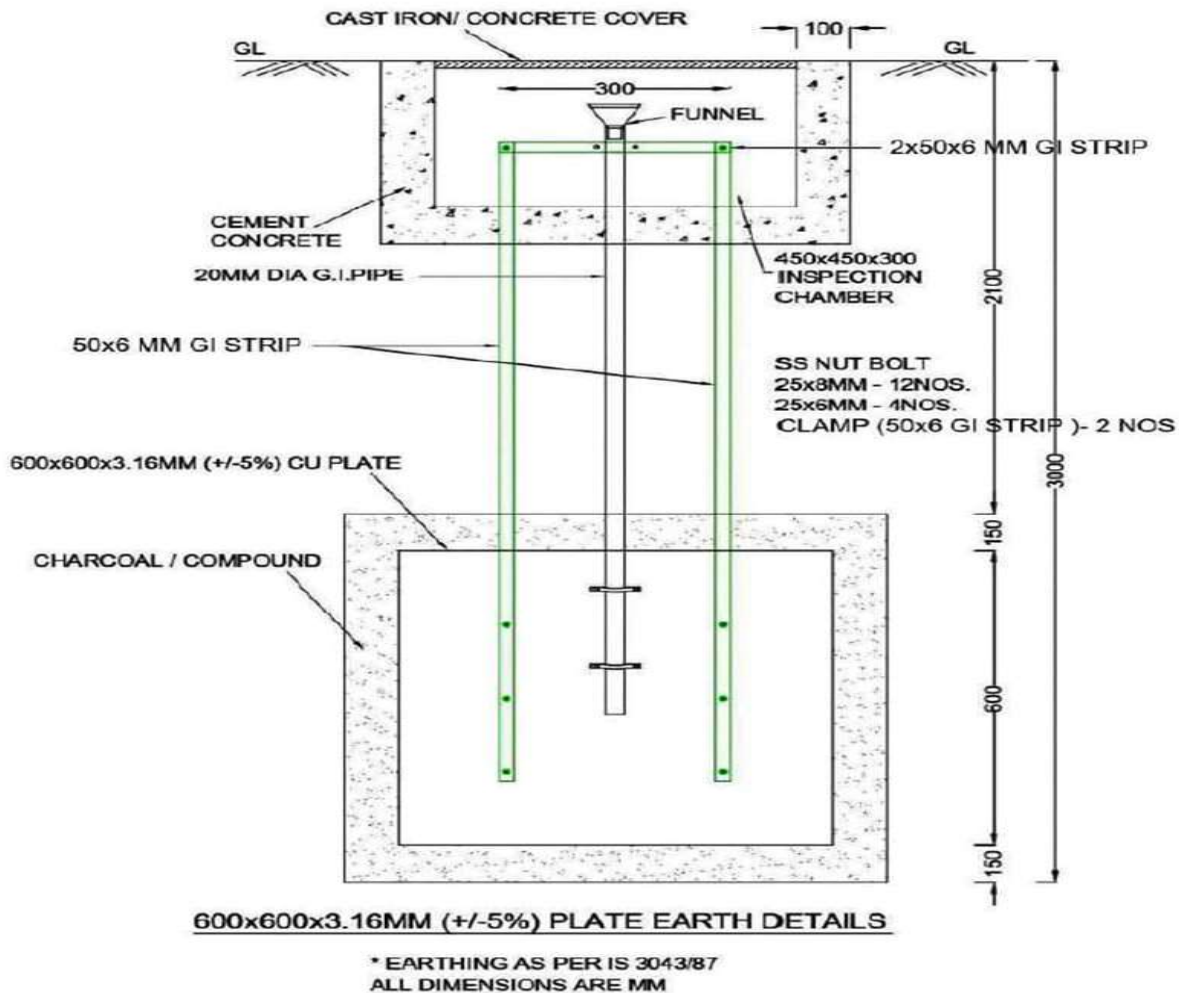
4.7 IVC female socket assembly for ZS coupling (Schedule Item No. 16)

The scope of work shall consist of fabrication painting/powder coating, supply and fixing of suitable size enclosure fabricated with 10SWA CRCA sheet with clamps for fixing IVC female socket assembly. The price offered also shall be inclusive of the cost of IVC female socket assembly. The IVC female socket assembly for ZS coupling of LHB coaches (500A capacity) shall be as per RCF specification No. EDTS-105 Rev-E (Part No. ML1/LHB/CSA-00 of MAA Lakxmi or Part No. SI/LHB/CSA-00 of S. International or latest from any ICF/RCF/RDSO approved suppliers. The enclosure bracket shall be suitable for fixing the same either in cur rail post or in the pillar of catwalk or in any structure. The drawing showing the size of the kiosk and make/grade of the materials, based on the drawing referred above shall be submitted for approval before initiating procurement.

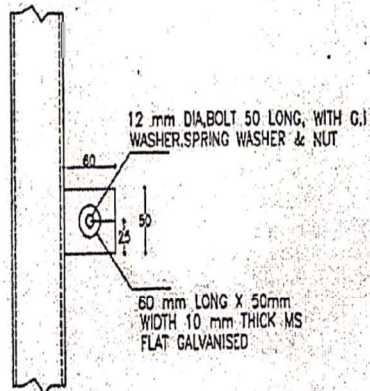
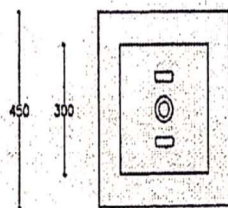
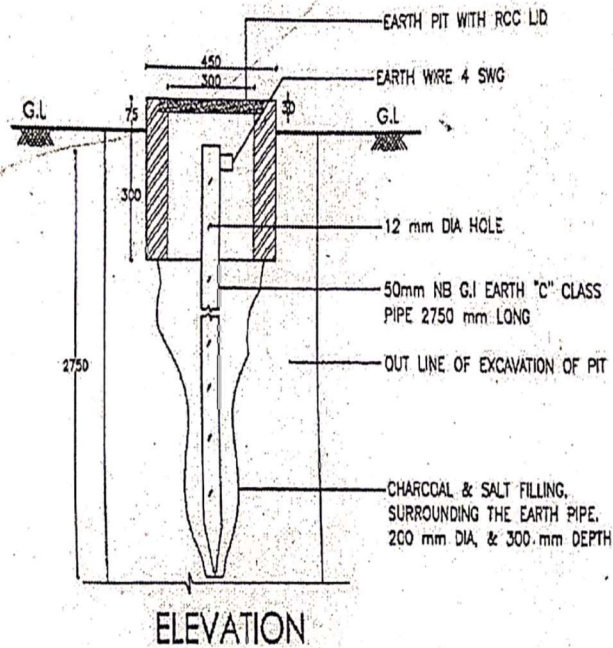
4.8 IVC jumper plug assembly for ZS coupling (Schedule Item No. 17)

The price offered shall be inclusive of the cost of power supply extending cables from IVC female plug assembly to ZS coupling mounted in the LHB coach. Price offered shall be inclusive of the cost of supply and fixing of 2 Nos. of IVC jumper plug assembly for ZS coupling (500A capacity) 750V, 3 phase 50Hz of LHB coaches as per RCF specification No. EDTS-105 Rev-E including supply of set of feeder cables 10M long and interconnection of the jumper plug assemblies as per Drg. No. V/E/12/21-22 using the 10M long set of feeder cables. Each set of feeder cables consist of (i) 1 No. of 1.8/3KV grade 3 core 150sqmm cable, 1No. of 1.8/3KV grade single core 95sqmm cable and 1No. 750V grade 2X2.5 sqmm cable all as per Harness Nos. 1 & 1B only to EDTS-252 Rev-1-clause. 2.1(B) and as per RDSO Specification No. ERLS/SPEC/ELC/0019 Rev.4. Also 1No. of single core 70sqmm cable also shall be provided. All the cables shall be of copper, stranded, annealed, tin coated, E-beam eradicated, cross linked polyolefin insulated suitable for 1.8/3KV Grade as per RDSO Specification No. ERLS/SPEC/ELC/0019 Rev.4 of February 2018. The price offered shall also be inclusive of the cost of supply of flexible polyimide conduit of size 80mm as per RDSO Specification No. RDSO/PE/SPEC/AC/0138-2009 REV-1 Annexure-A Sl. No.9 and threading of the above set of cables through the polyimide conduit. The IVC jumper plug assembly and cables shall be procured from ICF/RCF/RDSO approved sources only.

4.9 HT Earthing with Copper plate (Schedule Item No. 19)



4.10 Concealed LT Earthing (Schedule Item No. 20)

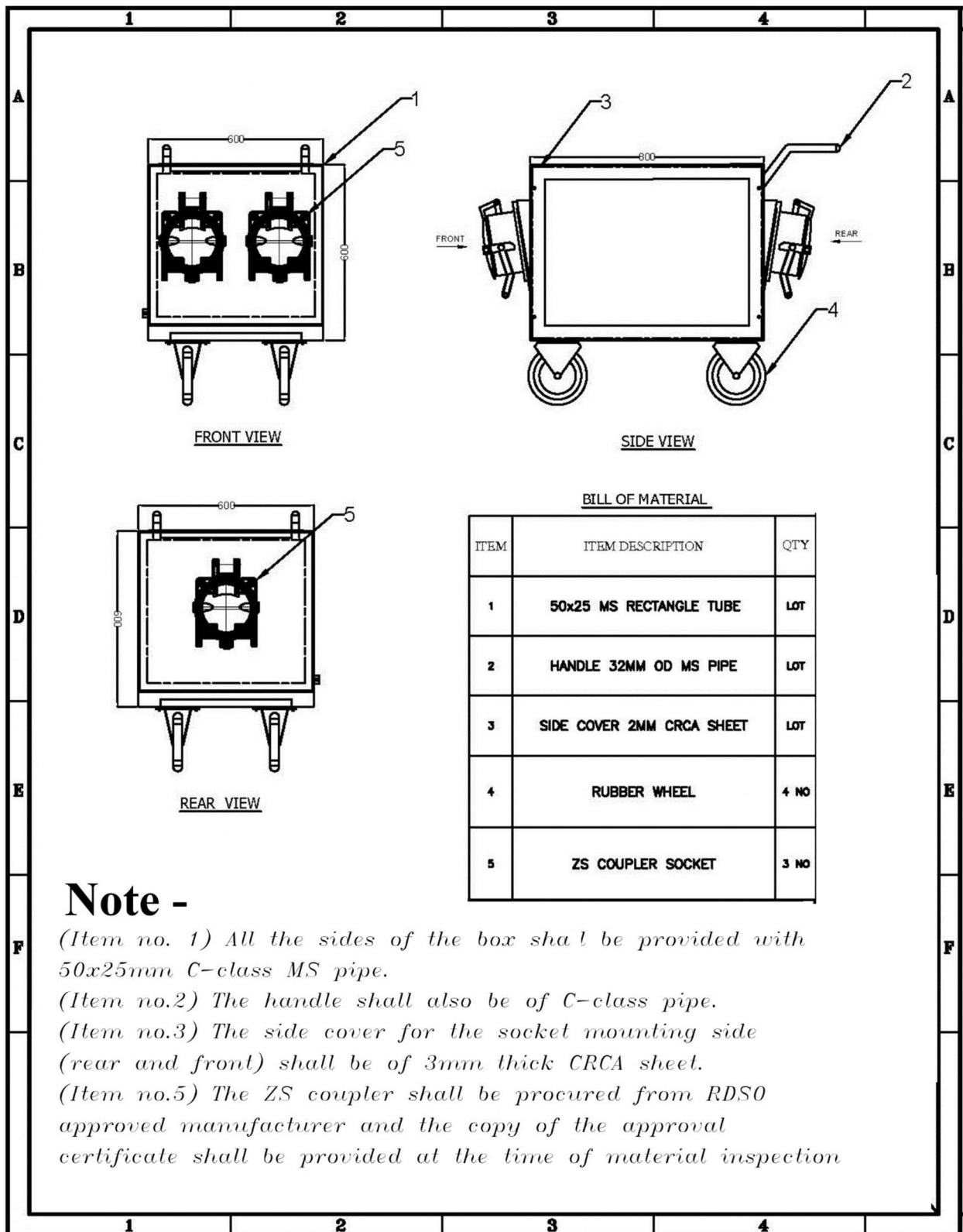


NOTE:-

1. ALL DIMENSIONS ARE IN mm. UNLESS STATED OTHERWISE
2. TUBE DIMENSIONS-50 mm NOMINAL BORE "C" CLASS HEAVY DUTY AS PER IS:1239.
3. CHARCOAL & SALT FILLING TO BE IN THE FORM OF A CYLINDER 200 mm DIA, SURROUNDING THE PIPES, 300 mm DEPTH OR THE QUANTITY MENTIONED IN THE SCHEDULE
4. EARTH POT SHALL BE MADE UP OF CEMENT CONCRETE WITH LID/BRICKWORK WALL WITH COVERING RCC SLAB.
5. IF SPECIFIED EARTH RESISTANCE CANNOT BE OBTAINED WITH ONE EARTHING, STATION-EARTHING STATIONS IN MULTIPLE SPACED AT A DISTANCE OF 10M & INTERCONNECTED TOGETHER MAY BE ADOPTED.
6. THIS DWG IS BASED ON RDSO DWG. NO. ET2/OHE/P/7020, ISS CODE FOR EARTHING STATION IS : 3043 AND CEE/WAS DRG.NO : EL/P/TYPE/122
7. ALL MATERIALS INCLUDING CEMENT STEEL, G.I PIPE ETC., SHOULD BE SUPPLIED BY THE CONTRACTOR ONLY.
8. EARTH PIT SIZE IS 0.9X0.9X2.9 m

SOUTHERN RAILWAY		
TITLE:		
L.T. EARTHING ARRANGEMENTS		
Dwg. No.	CEE/CN/MS/16-2004	
<i>[Signature]</i> XEE/CN/MMC	<i>[Signature]</i> XEE/CN/ERS	<i>[Signature]</i> XEE/CN/MDU
Dy.CEE/G/CN/MS	<i>[Signature]</i>	
CEE/CN/MS	<i>[Signature]</i>	

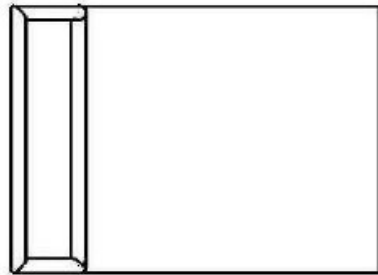
4.11 Input Output trolley with 3 Nos. IVC female socket assembly (Schedule Item No. 21)



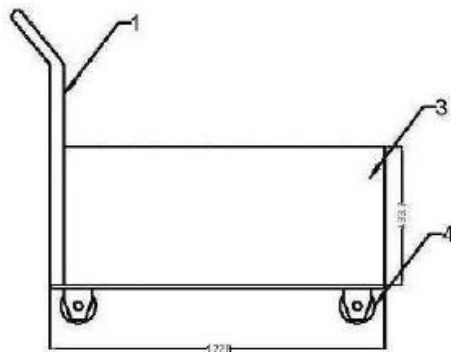
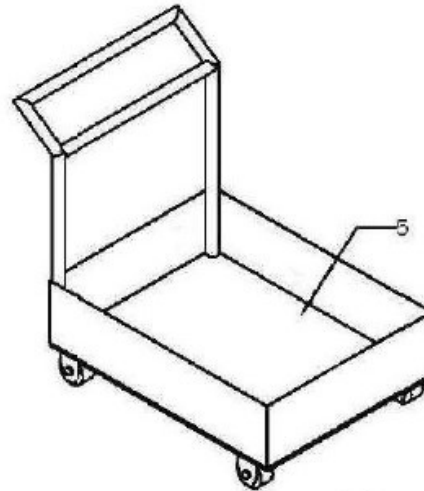
4.12 Trolley for double end plug assembly (Schedule Item No. 22)

4.12.1 Trolley

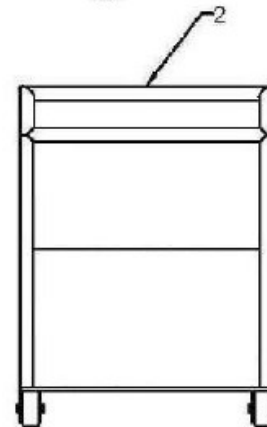
SKETCH FOR DOUBLE END PLUG ASSEMBLY TROLLEY



TOP VIEW



SIDE VIEW

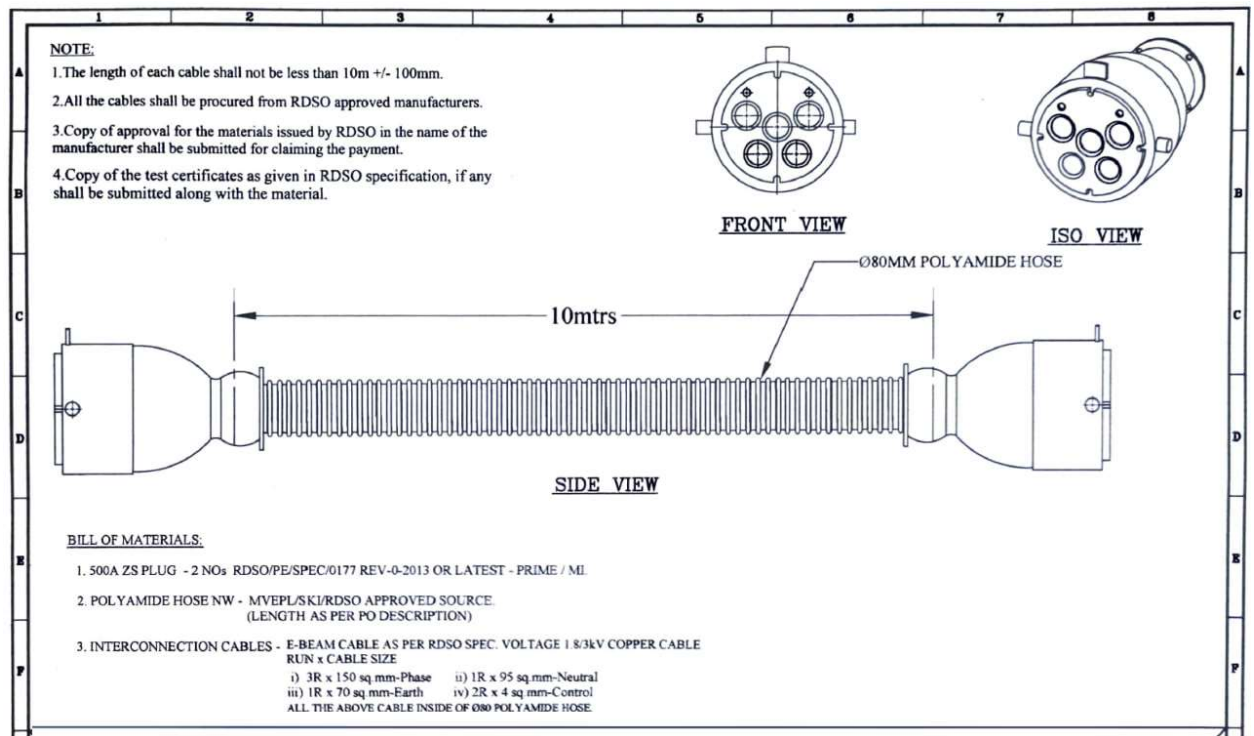


REAR VIEW

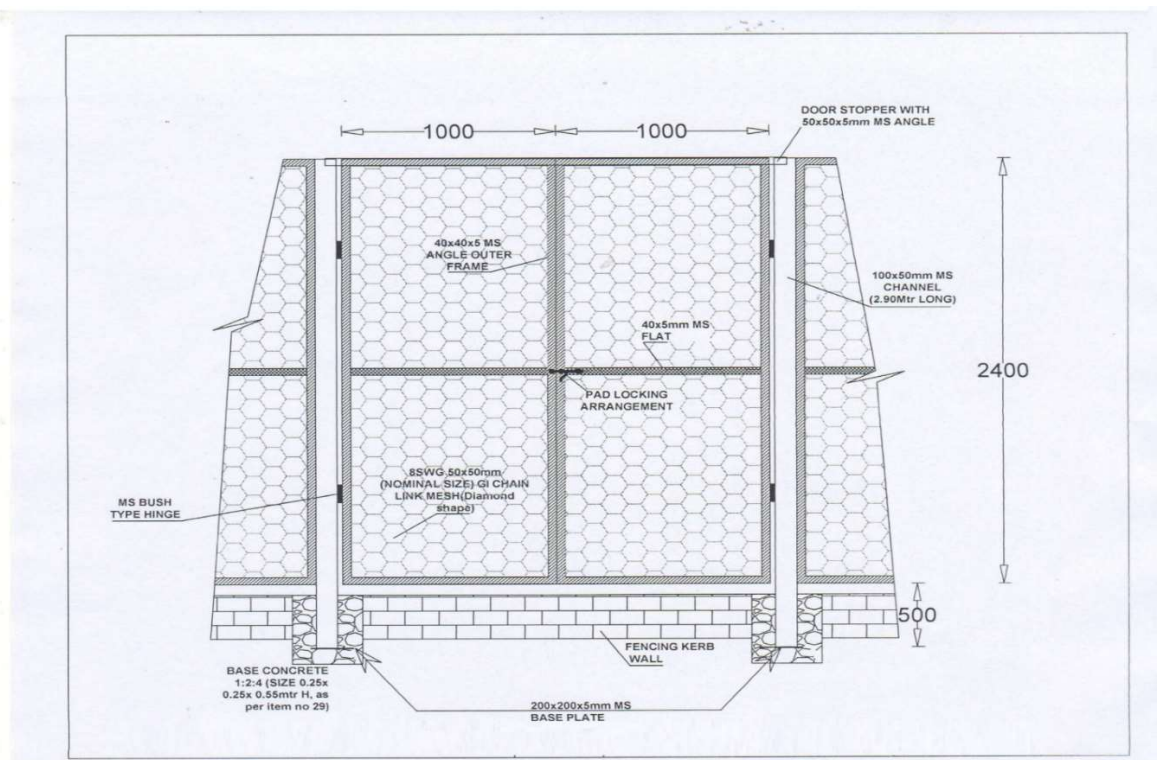
NOTE

1. The trolley should have a frame with 50x25mm C-Class MS tube in all edges i.e 12 Sections includes 2 Nos. for fixing the handle
2. The handle shall be of C-Class pipe
3. The top of the side mesh shall be at a minimum height of 45cm from the base
4. Rubber wheel
5. The base plat shall be either perforated or should be provided with sufficient holes to avoid water storage inside the trolley

4.12.2 Control Cable



4.13 Fencing Panel (Schedule Item No. 29)



4.14 Hiring of JCB (Schedule Item No. 37)

The rate offered shall be for the use of JCB per hour time including driver and all other labour charges, and cost of fuel and other consumables. While working the JCB shall be operated by one operator and one assistant. If road crane is required to be operated except for placing of PSS and RMU, the same also will be paid under this item. Crane charges for PSS/CSS and RMU is included under the scope of said items and will not be paid under this item.

4.15 Steel work in buildup tubular trusses (Schedule item No. 39)

Wall thickness of tubes used for construction exposed to weather shall be not less than 4 mm and for construction not exposed to weather it shall be not less than 3.2 mm. Where structures are not readily accessible for maintenance, the minimum thickness shall be 5 mm. The rate shall include the cost of labour and materials involved in all the operations described above including application of one coat of approved steel primer i.e. red oxide zinc chrome primer conforming to IS : 2074 and two coats of enamel paint. The tubular truss work shall be done as detailed in Chapter 8: Steel and Aluminium Works Unified Standard Specifications For Works & Materials of Southern Railway

4.16 Pre-Coated Galvanised Iron profile sheets as per specification (Schedule item No. 40)

The scope of work is inclusive of the cost of Supply & installation of pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50mm +/- 5% total coated thickness (TCT) thick Zinc coating 120gsm as per IS:277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length up to 12m or as desired by Engineer-in-charge. The sheet shall be fixed using self-drilling / self-tapping screws of size (5.5mm x 55mm) with EPDM seal or with polymer coated 'J' or 'L' hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete up to any pitch in horizontal/vertical or curved surfaces excluding the cost of purlins, rafters and trusses, including cutting to size & shape, wherever required.

4.17 Completion Drawing

The sketch wherever required (eg. Track crossing, cable route etc.) for initiating the work shall be prepared by the contractor. Such sketches are to be approved by Railway's Engineer-in-charge before starting the item of work. The price offered shall be inclusive of the cost of labour charges for preparing the completion drawing as made at site. The drawing prepared shall be modified duly making the correction necessitated at the time of execution of work showing the approval proposals and actually executed at site shall be shown in the draft completion drawing for approval. The draft completion drawing shall be submitted for site verification. The final completion drawing shall be prepared in colour showing the existing installations, if any, in black colour and new additions in red and other colours duly deleting proposals initially proposed as shown in the draft completion drawing. After getting approval from the engineer in charge, three copies of the approved drawing shall be submitted in A-3 size plain paper not less than 90 GSM. The soft copy of the drawing also shall be submitted in pen drive before claiming final bill. The claim for final payment shall be raised by the contractor after obtaining approval of final completion drawing from the Engineer only.


5 LIST OF APPROVED MAKES

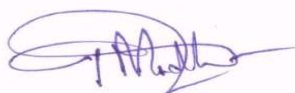
5.1 Provisional List of Approved makes-Page 1

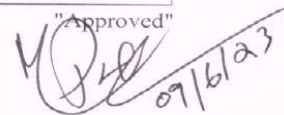
SR

PROVISIONAL LIST OF APPROVED MAKES- (GENERAL SERVICES)

Sl. No.	Description of item	Makes
1	MCB, DBs, Enclosures, Metal Clad Socket	Legrand, L&T, ABB, Schneider, Siemens, HPL, Indoasian, C&S, Havells, Hager, GE, Crompton, POLYCAB
1	MCB, DBs, Enclosures	Legrand, L&T, ABB, Schneider, Siemens, HPL, Indoasian, C&S, Havells, Hager
2	ACB, MCCB, RCBO, Earth Fault Relay, RCCB, Contactor, Timer, SFU	Legrand, L&T, ABB, Schneider, Siemens, Hager, Havells C&S, CGL, GE, Crompton
3	COS	Legrand, L&T, ABB, Schneider, Siemens, HPL, C&S, Havells
4	LTUG/HTUG Cable and their accessories	Finolex, Havells, CCI, Polycab, KEI, V- Guard, RR cable, Universal, Oriental, Anchor.
5	HDPE Pipe	Jindal Pex, Supreme, Finolex, Mangalam, Dutron, Apollo, Varun Flow, Seivre
6	Measuring/ Metering Instruments/ Multi data Meter/Energy Meter etc	Schneider, ABB, L&T, Elmeasure, HPL, MECO
7	LT- PVC Copper wire (Single & Mutli Core)	Finolex, Havells, Gloster, Polycab, KEI, V-Guard, Anchor,RR Cables.
8	Light fittings/Lamp	Philips, Bajaj, Crompton Greaves, Havells, Panasonic, Wipro, Jaquar, Surya, Eveready, Luker, CGL, GE, Samsung, C&S, Polycab
9	LED make	NICHIA, OSRAM, SEOUL, PHILIPS LUMILEDS, CREE, LEDNIUM, AVAGO
10	Junction Box, Enclosure, LILO box, Meter Box etc.	Schneider, Sintex, Hensel, ABB, CAPE Electric, Indoasian, Havells, C&S, Legrand, L&T
11	Industrial Plug & Socket	Anchor, Havells, Legrand, Schneider, ABB, L&T
12	Class B/C GI Pipe	Jindal, Tata, Apollo, Zenith, Surya.
13	PVC/CPVC Conduit/ casing and Caping & PVC Switch boards	Astral Pipes, Supreme, Finolex, Dutron, Sun, GM, Anchor, Avoplast, Precision. Prestoplast, Anchor, Havells, Legrand
14	Submersible cables	Polycab, Finolex, L&T, Havells, RPG, Anchor, V- Guard, KEI
15	Pump sets	KSB, Kirloskar, Crompton, Taro (Texmo), CRI, V-guard, Flotech, Oswal, LUBI, Uneel, Duke, Aquatex
16	Pump starter	KSB, Kirloskar, Crompton, L&T, Siemens, C&S
17	PIR sensors with switching module	Lutron, Schneider, Siemens, Legrand, Hager
18	BLDC Fan	Usha, Atomberg, Orient, Crompton, Havells, Panasonic, CGL, Khaitan, Usha, Standerd. Polycab, Bajaj, Luker
19	Industrial Air circulator	Usha, Orient, Crompton, Havells, Panasonic, Bajaj, Khaitan , Almonard, Orient
20	Exhaust fan/ wall mounting fan/ Pedestal fan	Usha, Orient, Crompton, Havells, Pansonic, Bajaj, Khaitan
21	Modular Switches, Switch box, Covering plate, Sockets, Holders, MCB protected sockets	Havells, Crabtree, Legrand, GM, C&S, Honeywell, ABB, Schneider, Indoasian
22	AC units (Window AC / Split AC / AC Plant, Packaged unit)	Blue Star, Hitachi, LG, Samsung, Carrier, Voltas, Daikin, O-General, Hitachi, Videocon, Fedders Lloyd, Mitsubishi, GODREJ


SSE/E/Drg/PGT


ADEE/G/PGT


Sr. DEE/G/PGT


5.2 Provisional List of Approved makes-Page 2

SR


Sl. No.	Description of item	Makes
23	UPS/Inverter	Hykon, Numeric, Microtek, APC, Schneider, Luminous, V-Guard.
24	Digital water level controller	L&T, Schneider, Siemens, Legrand, ABB, Hager.
25	Metering cubicle, Indoor/Outdoor pot heads for HT cable, GOS, HG fuse unit, Insulators, Lightning arrestors	Any BESCOM, KSEBL or MESCOM approved makes.
26	CSS, RMU, LBS	ABB, L&T, Schneider, Siemens.
27	Transformer	NGEF, KEL, TTE, REL, YULE, ITEC, AE, GEC, BHEL, Swastic, C opper, ETC, Crompton, Kirloskar, or BESCOM, KSEBL, MESCOM, TNEB approved makes.
28	High masts	Bajaj, Utkarsh, Crompton, Philips, SURYA, Transrail, Jaquar, RR Ispat.
29	CLS Panel	RDSO/CORE approved makes
30	VRLA Battery	Amaron, Exide TATA, Luminous, Panasonic
31	Geyser	Crompton, Racold, Jacour, Havells Bajaj Guard, Haier
32	Cable tray GI	Legrand, Jindal
33	Trunking system PVC	Legrand, Jindal
34	PVC Pipe, Column pipe	Finolex, Supreme, Astral, Presicion, Falcon Cello, Avoplast
35	Electronic Energy Meter	L&T, Siemens, Secure, ABB, Schneider
36	Timers Astronomical & Solid state	ABB, BHEL, GE, L&T, SIEMENS, Havells, Schneider, Legrand, Selec.
37	Call Bell	Leader, Anchor, Havells
38	Time Switches	L&T, Siemens, Legrand, Havells, GE, Hager, HPL
39	GI sheet	Jindal / Sail / Essar / Tata / Surya
40	DP Switch	L&T, Havells, HPL, GM, Legrand, C&S
41	Poly Carbonate Cable looping boxes	Sintex, Hensel, Cape, Electric, Fab, Grasp, Fibox

Note: -

1. Railways reserves the right to choose any one of the makes given above, tenderers are advised to supply any one of the makes, in this regard decision of Railway is final. Any other makes for the above items should have prior approval of Sr.DEE/G/PGT
2. Manufacture's Test Reports/Test Certificates should be submitted to this office for all major plants, equipment and machineries as required by the Engineer in-charge along with the delivery challans before making the final measurement


SSE/E/Drg/PGT


ADEE/G/PGT

"Approved"

Sr.DEE/G/PGT

A Appendix - Statement of Works on Hand

SI No	Name of the Organization	Name of the work	Place of work	Value of work	Present Physical Progress (%)	Likely date of completion
1	Southern Railway i. Open line in the Divisions of S.Rly. ii. Construction organization iii. Metropolitan transport project under CAO/CN/MTP/MS. iv. Railway Electrification project					
2	Other: i) Other Railways. ii) Other Public Sectors Under takings. iii) Private Sector under takings.					

Table 2: Statement of Works on Hand

The information furnished above is correct and complete to the best of our/my knowledge and belief.

We are / I am aware that if the information furnished above are found to be wrong or incomplete or any relevant information is found to have been suppressed, the tender is liable to be rejected, at any stage as per clause of the conditions of the tender.

We are / I am aware that if the declarations as above in the tender are found to be not true, any agreement that may be entered into is also liable to be terminated by the Railway.

B Appendix - NEFT Mandate Form

Firm Details

Name of Firm as in Bank Statement	
Name of the Contact Person	
Address	
E-mail ID	
Phone Number	

Bank Details

Name of the Bank	
Branch Name	
Bank Address	
Type of Bank Account (SB/CA/CC)	
Contractor/Firm's Bank Account No.	
IFSC Code (11 digit) of Bank for NEFT	
9-Digit MICR code number of the Bank and Branch	

Other Details

Contractor/Firm's PAN No.	
Contractor/Firm's TIN No	
Contractor/Firm's GST No.	

Table 3: Bank Account Details

Note: Cancelled cheque may be enclosed for verification of bank details.

Declaration: I hereby declare that the particulars given above are correct and complete. I authorize Railways to deposit the amount to the above mentioned Bank account if any payable to me. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold Railways responsible for the same.

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

C Appendix - Employees Provident Fund Registration Details

Firm Details

PF Code if already registered	
Name of the Contractor/Outsourcing agency	
Address of the Contractor/Agency	
City	
District	
State	
PIN code	
Owner Name	
Owner Phone/Mobile	
Total No. of Employees Engaged	
PAN	
TAN	
Period of Contract (From Date)	
Value of Contract	

Table 4: EPF Registration Details

D Appendix - Statement on Employment of Retired Railway Employees

Declaration:

The bidder shall declare in the remark's column that "I am neither a Retired Railway Employee nor employed any Retired Railway Employee in my firm/company nor do not have any Retired Railway Employee as my partner/director in my firm/company" if no retired Engineer or retired Gazetted Officer is associated with the tenderer. Or If any retired Railway Employee is employed/have partnership then 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 Tenders without the information above referred to will be summarily rejected.

E Appendix - Site Order Book

SOUTHERN RAILWAY SITE ORDER BOOK

Name of Work:

AGT.No./Date

Name of the contractor

Starting date:

Date	Site order by Inspecting Officials	Signature of the official	Noting Signature		Compliance	Remarks	Compliance Signature	
			Contractor	SSE			Contractor	SSE

Table 5: Site Order Book Details

Notes:

1. Site orders should be recorded specifically and chronologically
2. Wherever required, site orders may be supported by sketches

Special Note: Any objection of the contractor to the site orders should be brought to the notice to the Executive Engineers or higher officials immediately by the Contractor separately.

F Appendix - Hindrance Register

SOUTHERN RAILWAY HINDRANCE REGISTER

Name of Work:

AGT.No./Date

Name of the contractor

Starting date:

Sl.N	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

Table 6: Hindrance Details

G Appendix - Material Transaction Register

SOUTHERN RAILWAY MATERIAL TRANSACTION REGISTER

Name of Work:

AGT.No./Date

Name of the contractor

Starting date:

Location of Stores

	Date of Receipt																			
	Name/Nature of Work																			
	Opening Balance																			
	Item Description																			
	Details of Receipt																			
	Voucher No.	Brand	Quantity	Expiry Date	Total received (with unit)															
	Test certificate																			
	Signature																			
	Contractor	SSE																		
	Date	Quantity	Total Issued																	
	Closing balance																			
	performance		Remarks		reg															
	Signature																			
	Contractor	SSE																		

Table 7: Material Transaction Details

H Appendix - Daily Progress & Labour Register

SOUTHERN RAILWAY DAILY PROGRESS & LABOUR REGISTER

Name of Work:

AGT.No./Date

Name of the contractor

Starting date:

Date	Status of Work (in the beginning)	Progress (on date)	Contractor labour (available at site)	Remarks	Signature	
					Contractor	SSE

I Appendix - BID Security

BID SECURITY

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

Name of the Bank: _____

President of India

Acting through....., Railway

Beneficiary:.....Railway

Date:.....

Bank Guarantee Bond No.:.....Date:_____

In consideration of the President of India acting through— (Designation & address of Contract Signing Authority),
..... Railway,, (hereinafter called "The Railway") having invited the bid for.....through
Notice inviting tender (NIT) No....., We have been informed that.....[Insert name of the Bidder].
(hereinafter called "the Bidder") intends to submit its bid (hereinafter called "the Bid")

WHEREAS, the Bidder is required to furnish Bid Security for the sum of [Insert required Value of Bid Security], in the form of Bank Guarantee, according to conditions of Bid.

AND

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

1. KNOW ALL MEN that by these present that I/We the undersigned [Insert name(s) of authorized representatives of the Bank], being fully authorized to sign and incur obligations for and on behalf of the Bank, confirm that the Bank, hereby, unconditionally and irrevocably guarantee to pay to the Railway full amount in the sum of [Insert required Value of Bid Security] as above stated.
2. The Bank undertakes to immediately pay on presentation of demand by the Railway any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the Railway on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/ pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.
3. The Bank shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the Bidder and without the Railway being required to show grounds or give reasons for its demand of the amount so demanded.
4. The guarantee herein before shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder
5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any docu-

ments, which have been or may be made between the Railway and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by Railway at any time

6. This guarantee will remain valid and effective from.[insert date of issue]till [insert date, which should be minimum 90 days beyond the expiry of validity of Bid]. Any demand in respect of this Guarantee should reach the Bank within the validity period of Bid Security.
7. The Bank Guarantee is unconditional and irrevocable.
8. The expressions Bank and Railway herein before used shall include their respective successors and assigns.
9. The Bank hereby undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of the Railway. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.
10. The Bank hereby confirms that it is on the SFMS (Structured Financial Messaging System) and shall invariably send the advice of this Bank Guarantee to the following bank details –

IFSC CODE	SBIN000RAIL
IFSC TYPE	BRANCH
BANK NAME	STATE BANK OF INDIA
BRANCH NAME	RAIL
CITY NAME	NAVI MUMBAI
ADDRESS	SECTOR-11, CBD BELAPUR, NAVI MUMBAI
DISTRICT	NAVI MUMBAI
STATE	MAHARASHTRA
BG ENABLED	YES

11. The Guarantee shall be valid in addition to and without prejudice to any other security Guarantee(s) of Bidder in favour of the Railway. The Bank, under this Guarantee, shall be deemed as Principal Debtor of the Railway.

Date

Place.

Bank's Seal and authorized signature(s)

(Name in Block letters)

(Designation with Code No.).....

(P/Attorney) No.....

Witness:

1. Signature, Name & Address & Seal

2. Signature, Name & address & Seal

Bank's Seal

(P/Attorney)No.....

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

J Appendix - Annual Contractual Turnover data

Annual Contractual Turnover Data for the Previous 3/4 Years (Contractual Payment only)

Year	Amount Currency	Exchange Rate	Indian National Rupees Equivalent
Average Annual Contractual Turnover for last 3 years			

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

SEAL AND SIGNATURE OF THE BIDDER

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

(Signature of Chartered Accountant)

Name of CA:.....

Registration No:.....

(Seal)

K Appendix - Certificate format

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

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

1. I/we certify that (constituent firm/constituent partner) is/are not blacklisted or debarred by Railways or any other Ministry/ Department of Govt.. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
2. I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed).

SEAL AND SIGNATURE

OF THE CONSTITUENT FIRM/CONSTITUENT PARTNER

Place:

Dated: