

SOUTH WESTERN RAILWAY

ELECTRICAL(TRD) BRANCH

MYSORE DIVISION



E-TENDER FORM

FOR

Name of work: "Design, Supply, Erection and testing of mobile PSI testing system for 25/2x25 kV traction system".

Sr.DEE/TRD/MYS

TENDER No. Y/E.29/2026-27/32 Dt: 11.06.2026

DATE OF OPENING: 03.07.2026

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TENDER No: Y/E.29/2026-27/32 Dt: 11.06.2026.

Name of work: "Design, Supply, Erection and testing of mobile PSI testing system for 25/ 2x25 kV traction system".

LAST DATE & TIME OF SUBMISSION OF TENDER	03.07.2026 UPTO 11.00 HRS
DATE & TIME OF OPENING OF TENDER	03.07.2026 AT 11.30 HRS ONWARDS
NAME AND ADDRESS OF TENDERER TO WHOM TENDER FORM IS ISSUED	M/s
COST OF THE WORK	Rs. 8,25,63,571 /-
COMPLETION PERIOD OF THE WORK	7 months
EARNEST MONEY DEPOSIT	Rs.16,51,300/-

दिःणपिःमरेलवे/SOUTH WESTERN RAILWAY

E- TENDER NOTICE No. Y/E.29/2026-27/32 Dt: 11.06.2026

For and on behalf of President of India, Divisional Railway Manager (Electrical) South Western Railway, Mysore – 570021 invites E-Tenders in prescribed tender form from reputed eligible contractors.

Item No.	Description of Work	Approximate Value of work (In Rs.)	Earnest money (In Rs.)	Last Date of Submission of Bid for Tender
01	02	03	04	05
01	Design, Supply, Erection and testing of mobile PSI testing system for 25/ 2x25 kV traction system.	Rs.8,25,63,571/-	Rs.16,51,300/-	11.00 hrs. of Date: 03.07.2026

The Details of tender notice and tender documents, tenderer may logon to the [Website: www.ireps.gov.in](http://www.ireps.gov.in) No manual tenders will be entertained against E- Tender.

Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of earnest money deposit detailed above.

DIVISIONAL RAILWAY MANAGER (Electrical)
SOUTH WESTERN RAILWAY, MYSORE.

GENERAL CONDITIONS OF CONTRACT- 2022

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General conditions of the contract form the part of the present contract. Hence all conditions stipulated therein, shall be applicable for the present agreement, unless repugnant to the context.

I/We have gone through the General Conditions of Contract w.e.f. April- 2022 or applicable from time with all Correction slips up-to-date as Governing the performance of works covered by this Tender. I/We have kept myself/ourselves fully informed of the provision of these General Conditions, and agree to abide the same fully.

Signature of Tenderer(s)

NOTE

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The General Conditions of contract can be perused in the office of Sr. Divisional Electrical Engineer/TRD, South Western Railway, Mysore during office working hours or will be downloaded from the website attached with this tender.

INSTRUCTIONS TO TENDERERS AND CONDITIONS OF TENDERING

The tenderers are advised to carefully read this Tender Document in conjunction with Indian Railways Standard General Conditions of Contract- w.e.f. April - 2022 with Advance correction Slips and with latest amendments before participating in this Tender. Any changes in the GCC issued by Railway Board from time to time will be applicable during the currency of the contract. This tender shall be governed by Indian Railways Standard General Conditions of Contract April - 2022 with latest amendments and correction slips.

2. FOREIGN EXCHANGE:

No foreign exchange and/or import license will be released/ provided to the Contractor in connection with this contract

3. Bid security:

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

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

For the present tender bid security to be submitted by participating tenderer's is Rs. 16,51,300.

Note:

- (i) The Bid Security shall be rounded off to the nearest ₹100. This Bid Security shall be applicable for all modes of tendering.
- (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above.
- (iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.
- (iv) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or

comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway.

(v) If his tender is accepted, this Bid Security mentioned in sub para (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.

(vi) The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-VIA and shall be valid for a period of 90 days beyond the bid validity period.

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

i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.

ii. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days before closing date for submission of bids.

iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non-submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid.

iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.

V. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected

vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification Name of the Tender and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right-hand top corner of the envelope.

vii. The envelope shall be addressed to Sr. Divisional Electrical Engineer, TRD, Mysuru division, DRM office, Mysuru- 570021.

viii. If the envelope is not sealed and marked as instructed above, the Railway assumes no

responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

Subject to exemptions provided the tender must be accompanied by a Bid Security as mentioned in tender documents, failing which the tender shall be summarily rejected.

4. SECURITY DEPOSIT (For details see Part-I, Chapter-II, at para 1.2.17 of Instructions to the tenderer)

5.1 Cares in Submission of Tenders:

(a) (i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract, 2022 for the completion of works to the entire satisfaction of the Engineer.

(a) (ii) Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt. & as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.

(a) (iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority.

(a) (iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/ SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.

(b) When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf.

(c) The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract.

It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

5.2 The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of the certificate is available on IREPS website. In addition to Annexure- V, in case of other than Company/Proprietary firm, Annexure-V(A) shall also be submitted by 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 certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.

5.3 DEVIATIONS:

All the tenderers may please note that the offers seeking modified terms and conditions by way of deviations mentioned under either Memorandum or Deviation schedule for instance, higher mobilization advance, or any modification in respect of mobilization advance, On account/ progress payment, recovery rate, insurance warranty, extension in completion period , facilities to be provided by the Purchaser or any reimbursement of taxes etc. are liable to be rejected without assigning any reason thereto and the decision of the Railway Administration in this regard will be binding on all the tenderers. It should be specifically noted that the prices shall be FIRM inclusive of all taxes and duties.

6.1 PERIOD OF COMPLETION

The entire work including commissioning shall be completed within **07 months** from the date of issue of letter of acceptance (LOA) to the tenderer.

6.2 VALIDITY OF OFFER: -

60 days in case of SINGLE PACKET SYSTEM and 90 days in case of TWO (2) PACKET SYSTEM from the date fixed for closing of the bid (As per GCC of works 2022 April)

7. TENDER BID

This is a 'SINGLE packet e-tendering. The Tender bid shall be uploaded on IREPS site (www.ireps.gov.in). The details can be seen from the Tender Notice on the IREPS website.

8. ELIGIBILITY CRITERIA: Not applicable for works below 50 Lakhs. If the tender quotes a value of Rs. 50 Lakhs or above 50 Lakhs, he/she must submit all the supporting documents as indicated in the tender booklet. Failure to do so, will lead to summarily rejecting the offer of the tenderer

9.1 Technical Eligibility Criteria:

The tenderer must have successfully completed or substantially completed during last 07 (Seven) years, ending last day of month previous to the one in which tender is invited:

Three similar works each costing not less than the amount equal to 30% of advertised value of the tender,

or

Two similar works each costing not less than the amount equal to 40% of advertised value of the tender,

or

One similar work each costing not less than the amount equal to 60% of advertised value of the tender.

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

A. Definition of SIMILAR Work:

Design, Supply, installation, testing & commissioning of mobile PSI testing system / mobile testing lab / testing Mobile Testing System for electrical sub-station (25 kV/66 kV /110 kV/ 132 kV/220 kV/ 400kV) / switching station (SP/SSP), having facilities for measurement, recording, generating & analysing test report for various tests viz. Insulation Resistance, Winding Resistance, Turn Ratio, Tan Delta, Capacitance, Relay Test, Oil BDV, CB / BM Timing, CT & PT analyser etc.

NOTE:

- (i) The Experience Certificates are to be attached to the e-offer as per FORM 12 A sheet 1.
- (ii) The Certificate to satisfy similar work should be signed by an officer not lower than JAG officer in Railways and Executive Engineer rank or equivalent grade in other department of Govt. of India/State Government/ PSUs of Government of India / State Undertaking and competent authority of public listed company. Tenderer shall attach Certificate copies along with the e-offer.
- (iii) The total value of similar nature of work completed during the qualifying period, in terms of the final bill amount, and not the payments received within the qualifying period alone, will be considered. In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction is to be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction is to be considered. However, if final measurements have been recorded and work has been completed, with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower shall be considered for judging eligibility.
- (iv) Work Experience Certificate issued by Central/State/Semi Government Organizations / Authorities, PSUs of Govt. of India / State Government shall be considered. Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.
- (v) Certificates issued to tenderer as sub-contractor for sub-let Works by any Organization (Govt./ Pvt. Organizations) will not be considered.
- (vi) The decision of the Railway regarding the correctness/suitability of the Certificates is final and the tenderer shall not have any claim whatsoever in this regard.

9.2 Financial Eligibility Criteria: Applicable for tenders costing above 50 lacs

The Tenderer shall be eligible only if he fulfils the following Standard Financial Eligibility Criteria FOR WORKS COSTING ABOVE Rs.50.00 LAKHS:

The tenderer must have minimum average annual contractual turnover of V/N or V "whichever is lesser";

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.

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.

The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by the audited balance sheet

NOTE:

(i) Tenderer may note that CA Certificate alone without copies of audited Balance Sheet/Income Tax Returns will not be considered for evaluation.

(ii) For Works costing less than Rs.50.00 lakhs, tenderer should be financially sound and capable of carrying out such works. The tenderer should submit supporting documents for financial capacity, capability, past performance, works done and works on hand details along with the tender. No post tender correspondence shall be entertained to submit fresh details.

10. Bid Capacity:

Bid Capacity shall be governed in terms of clause 10.3 IRS GCC 2022. The tender /Technical Bid will be evaluated based on Bid capacity formula details as Annexure-vi of IRS GCC 2022. The Bid capacity is applicable for works costing more than Rs 10/- Cr and Details regarding Bid capacity shall be submitted along with the tender in Form 12 D duly verified and certified by chartered accountant.

11. Tenderer's Credentials: -

11.A Documents testifying tenderer previous experience and financial status should be produced along with the tender.

i) Any individual or individuals signing the Tender or other documents connected there with should specify whether he is signing

- a. As a sole proprietor of the concern or his attorney or
- b. As a partner or partners of the firm or,
- c. As a director or Manager in the case of a limited Company
- d. For a Registered Society & Registered Trust
- e. For a Hindu Undivided Family (HUF)
- f. For an LLP Firm
- g. For a Joint venture

ii) 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.

iii) 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.

iv) The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.

v) The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway thereunder.

vi) In case of any information submitted by tenderer is found to be false forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid security Deposit besides banning of business.

11(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 Deposit (EMD), Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business.

11(c) - List of works completed in the last five qualifying financial years (as the case may

be/as applicable) giving description of work, organization for whom executed, value of contract at the time of award, date of award, date of scheduled completion of work, date of actual start, actual completion, total payment received and final value of contract should also be given in respective FORM 12A sheet-2 and FORM 12D.

11(d)-Work load: The tenderers shall furnish the list of works on hand indicating description of work, contract value, value of balance work yet to be done, date of award and date of scheduled completion of work in respective FORM 12A sheet-2. Besides, they shall also advise the details of unfinalized tenders (with cost and completion period) in which they have quoted. Note: (i) Supportive documents/certificates from the organization with whom they worked/ are working should also be enclosed.

(ii) Certificate from private individuals for whom such works are executed / being executed shall not be accepted.

(iii) Tenderer shall submit all the documents in support of minimum eligibility criteria/credential along with the Tender. No documents in support of minimum eligibility criteria/credentials will be accepted/ entertained after opening of the tender.

12. Participation of Joint Venture (JV) Firms in Works tender: Not applicable for this tender Joint Venture shall be considered only for tenders where advertised estimated cost of the work is more than Rs. 10 Crores (Rupees Ten Crores) only

13. Participation of Partnership Firms in works tenders:

13.1 The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act.

13.2 The partnership Firm should submit the documents as applicable and as stated in tender document without fail.

13.3 Partnership firms are eligible to quote tenders of any value.

13.4 The partnership firm should have been in existence or should have been formed prior to submission of tender.

13.5 Partnership firm should have been registered with the Competent Registrar of the Firms as per Indian Partnership Act prior to date of tender opening.

13.6 Separate identity / name should be given to the partnership firm. The partnership firm should have PAN / GSTIN number in its own name and PAN / GSTIN number in the name of any of the constituent partners shall not be considered. The valid constituents of the firm shall be called partners.

13.7 Once the tender has been submitted, the constitution of the firm shall not be allowed to be modified / altered / terminated during the validity of the tender as well as the currency of the contract except when modification becomes inevitable due to succession laws etc., in which case prior permission should be taken from Railway and in any case the minimum eligibility criteria should not get vitiated. The re-constitution of firm in such cases should be followed by a notary certified Supplementary Deed. The approval for change of constitution of the firm, in any case, shall be at the sole discretion of the Railways and the tenderer shall have no claims what-so-ever. Any change in the constitution of Partnership firm after submission of tender shall be with the consent of all partners and with the signatures of all partners as that in the Partnership Deed. Failure to observe this requirement shall render the offer invalid and full Bid security shall be forfeited.

13.8 If any Partner/s withdraws from the firm after submission of the tender and before the award of the contract, the offer shall be rejected and it shall be treated as resiling from the offer and BID SECURITY shall be forfeited.

13.9 If any new partner joins the firm after submission of tender but prior to award of contract, his / her credentials shall not qualify for consideration towards eligibility criteria either individually or in proportion to his share in the previous firm.

13.10 In case the tenderer fails to inform Railway beforehand about any such changes / modification in the constitution which is inevitable due to succession laws etc. and the contract is awarded to such firm, then it will be considered a breach of the contract conditions liable for determination of the contract under Clause 62 of the standard General Conditions of Contract.

13.11 A partner of the firm shall not be permitted to participate either in his individual capacity or as a partner of any other firm in the same tender.

13.12 The tender form shall be submitted only in the name of partnership firm. The BID SECURITY shall be submitted by partnership firm through e-payment gateway or as mentioned in tender document. The BID SECURITY submitted in the name of any individual partner or in the name of authorized partner (s) shall not be considered.

13.13 Any of the partners of the firm or any other person shall be designated as the authorized person on behalf of the firm, who will be authorized by all the partners to act on behalf of the firm through a "Power of Attorney" executed by all the partners of the partnership firm in favour of such authorized person, duly stamped and authenticated by a Notary Public or by Magistrate, to do all such acts, deeds and things necessary in connection with or incidental to submission of tender including digital signature of the tenderer and submit the tender in the name of the tenderer and all documents specified in the Tender Document, including,

undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to and providing information / responses to Railway, representing all partners in all matters before the Railway and generally dealing with the Railway in all matters in connection with tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign

"No Claim Certificate" and refer all or any disputes to arbitration and create liability against the partnership firm.

13.14 On issue of Letter of Acceptance (LOA) to the partnership firm, all the guarantees like Performance Guarantee, guarantee for various Advances to the Contractor shall be submitted only in the name of the partnership firm and no splitting of guarantees among the partners shall be acceptable.

13.15 On issue of Letter of Acceptance (LOA), contract agreement with partnership firm shall be executed in the name of the firm only and not in the name of any individual partner/Agent/Representative.

13.16 In case the Letter of Acceptance (LOA) is issued to a partnership firm, the following undertakings shall be furnished by all the partners through a notarized affidavit, before signing of contract agreement.

(a) Joint and several liabilities:

The partners of the firm to which the Letter of Acceptance (LOA) is issued, shall be jointly and severally liable to the Railway for execution of the contract in accordance with General and Special Conditions of the Contract. The partners shall also be liable jointly and severally for the loss, damages caused to the Railway during the course of execution of the contract or due to non-execution of the contract or part thereof.

(b) Duration of the partnership deed and partnership firm agreement:

The partnership deed/partnership firm agreement shall normally not be modified/altered/terminated during the currency of contract and the maintenance period after the work is completed as contemplated in the conditions of the contract. Any change carried out by partners in the constitution of the firm without permission of Railway, shall constitute a breach of the contract, liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract.

(c) Governing laws: The partnership firm agreement shall in all respect be governed by and interpreted in accordance with the Indian laws.

(d) No partner of the firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other partner/s and that of the Railway.

13.17 The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm.

The following documents shall be submitted by the partnership firm, with the tender:

(i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.

(ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm.

(iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.

(iv) All other documents in terms of Para 12 of the Tender Form (Second Sheet) above.

(v) In case of a Partnership Firm which submits tender claiming their credentials

/Experience of their partner as a partner / member of another Partnership Firm /Joint Venture, following document shall be submitted along with the tender without fail:

a) The copies of those Partnership/Joint Venture(s) Deeds covering the period from the date of commencement to the date of completion of the work for which credential / experience certificate is submitted, as the case may be, mentioning the share of that partner/firm should be submitted along with tender.

AND

b) The copies of the relevant experience certificate issued by the Client.

(vi) An undertaking by all partners of the partnership firm and their authorized agent / representative that they are not blacklisted or debarred by Railways or any other Ministry/department of the Government of India/Any State Government from participation in tenders/contracts as on the date of opening of bids, either in their individual capacity or in any firm in which they were/are partners.

13.18 The share of equity of partners should be clearly mentioned in the partnership deed along with share of profit and loss.

13.19 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.

13.20 Evaluation of eligibility of a partnership firm:

Technical and financial eligibility of the firm shall be adjudged based on satisfactory fulfilment of the eligibility criteria laid down in Clause 12 above by the partnership firm.

13.20.1 Technical Eligibility Criteria:

a) The partnership firm shall satisfy the full requirement of the criteria in its own name and style.

OR

b) Any one of the partners of the firm, having minimum share of 50% in the partnership firm shall satisfy the full requirement of the criteria.

Note: Value of completed work done by a partner of the partnership firm in his / their earlier capacity as individual / partnership firm / JV etc. shall be reckoned only to the extent of the concerned partner's share in that firm / JV.

13.20.2 Financial Eligibility Criteria:

The Partnership Firm in its own name and style as brought out in clause no 12.2 of preamble

OR

The arithmetic sum of the contractual payments received by all the partners of the partnership firm shall satisfy the full requirements of the criteria.

Note: The contractual payments received by a partner of the partnership firm in his / their earlier capacity as individual / partnership firm / JV etc. shall be reckoned only to the extent of the concerned partner's share in that firm / JV.

The tenderers shall submit Certificates to this effect in the prescribed Form 12 A sheet 5 which may be an attested Certificate from Chartered Accountant / concerned department / client and Audited Balance Sheet duly certified by the Chartered Accountant etc.

13.20.3 Bid capacity:

(a) A Partnership firm fulfilling the technical eligibility criteria by its own name and style as mentioned in Clause 12.3 of preamble duly verified & certified by chartered accountant in its own name and style.

OR

(b) The arithmetical sum of individual bid capacity of all partners individually or the bid capacity of the partnership firm whichever is higher shall be taken as Partnership Firm's bid capacity.

14 Participation of Individual/Proprietary Concern/ Firm:

14.1 In case of Proprietary Concern/ Firm, an affidavit on a stamp paper of appropriate value declaring that his/her Concern/ Firm is a Proprietary Concern/Firm and he/she is the

sole proprietor of the Concern/Firm, or a certificate issued by Chartered Accountant / Registrar of Firms stating that his / her Concern / Firm is sole Proprietary Concern / Firm or any other document to establish that his / her Concern/ Firm is sole proprietary Concern/ Firm shall be submitted along with tender.

14.2 In case, an Individual/ Proprietary firm or Concern which submits the tender, claiming the credentials /experience as a partner /member of another Partnership firm (s)/Joint Venture (s), the following documents shall be submitted along with the tender without fail:

a) Copies of those Partnership(s) /Joint Venture(s) Deeds, as the case may be, covering the period from the date of commencement to the date of completion of the work for which credential / experience certificate is submitted, mentioning the share of the said member in the Partnership Firm/Joint Venture etc.

AND

b) The copies of the experience certificate(s) issued by the Client.

14.3 In case, an Individual/ Proprietary firm or Concern which submits the tender, claiming the credentials /experience of his/her own Proprietary firm(s) or Concern(s), copies of experience certificates issued to that Proprietary firm(s) or Concern(s) whose credentials /experience is claimed shall be submitted along with the documentary proof as mentioned in Clause 27.1 above, without fail.

14.4 Evaluation of eligibility of an Individual/Proprietary Concern/ Firm:

14.4.1 Technical Eligibility Criteria: The technical eligibility for the work as per Clause 12.1 of preamble shall be satisfied by the tenderer.

Note: Value of completed work done by a tenderer in earlier capacity as individual /Partnership Firm/JV etc. shall be reckoned only to the extent of the concerned partner's share in that Firm/JV etc.

14.4.2 Financial Eligibility Criteria: The Financial eligibility for the work as per Clause 12.2 of preamble shall be satisfied by the tenderer.

Note: The contractual payments received by a tenderer in earlier capacity as individual /partnership firm /JV etc. shall be reckoned only to the extent of the concerned partner's share in that Firm/JV etc.

14.4.3 Bid Capacity: The tenderer shall satisfy the requirement of "Bid Capacity" requirement mentioned at Clause 12.3 of preamble duly certified by Chartered Accountant in the name and style of Proprietary Concern / Proprietor / Individual Tenderer.

15 Participation of Company:

15.1 In case tenderer is a Company, the following documents shall be submitted:

- (i) Copy of Memorandum of Association and Articles of Association of the Company.
- (ii) Copy of incorporation certificate of the Company.
- (iii) Copy of certificate issued by Registrar of Companies in regard of change of name, if any.
- (iv) If the Company wants to act through one of the Directors or any authorized official of the Company, Power of Attorney backed by a copy of the resolution of Board of Directors authorizing him to do so shall be submitted.

If the tenderer wants to act through an agent / representative / individual, or any other individual, the tenderer should submit along with tender, a copy of power of attorney (backed by the resolution of Board of Directors) duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person authorizing him to do all such acts, deeds and things necessary in connection with or incidental to submission of tender including digitally sign and submit the tender in the name of the tenderer and all documents specified in the Tender Document, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to and providing information / responses to Railway, representing Company in all matters before the Railway and generally dealing with the Railway in all matters in connection with tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration and create liability against the Company.

In both the above circumstances, the board resolution shall clearly mention the name of the Managing Director or whole time Director who shall execute the PoA on behalf of the Company.

(v) Copy of complete documents establishing the Merger/De-Merger / conversion / Taking over / acquisition / Sale etc. with a company / Partnership Firm / Proprietor etc. together with the documents establishing the transfer of assets / liabilities / credentials to the transferee company from the transferor company if applicable.

(vi) In case, the Company which submits tender, claims the credentials/ experience as a partner of Partnership Firm(s) / Member of Joint Venture (s), following documents shall be submitted along with the tender without fail:

(a) The copies of those Partnership / Joint Venture (s) Deeds mentioning the share of the company in that Partnership Firm / JV, as the case may be, covering the period from the date of commencement to the date of completion of the work for which credential / experience is claimed, should be submitted along with tender.

AND

(b) The copies of the experience certificate(s) issued by the Client.

If these documents are not submitted along with tender, then the credentials / experience as claimed by the tenderer shall not be considered.

15.2. Evaluation of eligibility of Company in Works Tender:

15.2.1. Technical Eligibility Criteria: The technical eligibility for the work as per Clause 9.1 of preamble shall be satisfied by the tenderer in their own name and style.

Note: Value of completed work done by a company in earlier capacity as partner of partnership firm / member of JV will be reckoned only to the extent of their share in the Partnership Firm / JV.

15.2.2. Financial Eligibility Criteria: The Financial eligibility for the work as per Clause 9.2 of preamble shall be satisfied by the tenderer in their own name and style.

Note: Value of completed work done by a tenderer in earlier capacity will be reckoned only to the extent of their share in the Firm / JV.

15.2.3. Bid Capacity: The tenderer shall satisfy the requirement of "Bid Capacity" requirement mentioned at Clause 12.3 of preamble duly verified & certified by chartered accountant in the name and style of the Company.

16. Participation of LLP Firm registered under LLP Act-2008:

16.1 In case tenderer is a LLP Firm registered under LLP Act-2008, the following documents shall be submitted:

(i) copy of LLP Agreement,

(ii) copy of Certificate of Incorporation;

(iii) If the LLP Firm wants to act through an agent or individual partner(s), should submit along with tender, a copy of power of attorney signed by all partners of the LLP duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person authorizing him to do all such acts, deeds and things necessary in connection with or incidental to submission of tender including digitally sign and submit the tender on behalf of the LLP and all documents specified in the Tender Document, including undertakings, letters, certificates,

acceptances, clarifications, guarantees, etc., making representations to and providing information / responses to Railway, representing all partners in all matters before the Railway and generally dealing with the Railway in all matters in connection with tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the LLP Firm and sign "No Claim Certificate" and refer all or any disputes to arbitration and create liability against the LLP Firm.

If these documents are not submitted along with tender, then the credentials / experience as claimed by the tenderer shall not be considered.

16.2 Evaluation of eligibility of LLP Firm registered under LLP Act-2008:

17 Participation of Hindu Undivided Family (HUF):

17.1 In case the Tenderer is HUF, the following documents shall be submitted along with the tender:

(i) A copy of notarized affidavit on Stamp Paper declaring that he/she is in position of "KARTA" of Hindu Undivided Family (HUF) and he/she has the authority, power and consent given by other members of HUF to act on behalf of HUF.

(ii) If the HUF wants to act through one of the members of the HUF, then PoA in favour of such member of HUF, should be submitted along with tender. A copy of power of attorney signed by KARTA of HUF duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person authorizing him to do all such acts, deeds and things necessary in connection with or incidental to submission of tender including digitally sign and submit the tender and all documents specified in the Tender Document, including undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to and providing information / responses to Railway, representing all members in all matters before the Railway and generally dealing with the Railway in all matters in connection with tender, sign the agreement, receive money, co-ordinate measurements through contractor's authorized engineer, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the HUF and sign "No Claim Certificate" and refer all or any disputes to arbitration and create liability against the HUF.

If these documents are not submitted along with tender, then the credentials / experience as claimed by the tenderer shall not be considered.

17.2 Evaluation of eligibility of HUF:

17.2.1 Technical Eligibility Criteria: The technical eligibility for the work as per Clause

9.1 of preamble shall be satisfied by the tenderer in its own name and style.

17.2.2 Financial Eligibility Criteria: The Financial eligibility for the work as per Clause 9.2 of preamble shall be satisfied by the tenderer in its own name and style.

17.2.3 Bid Capacity: The tenderer shall satisfy the requirement of "Bid Capacity" requirement mentioned at Clause of preamble duly verified & certified by the chartered accountant in its own name and style.

18 Participation of Registered Society & Registered Trust:

18.1 In case the Tenderer is a Registered Society & Registered Trust, the following documents shall be submitted:

- (i) copy of the Certificate of Registration,
- (ii) Deed of Formation;
- (iii) Copy of working rule of the society.
- (iv) Copy of registration for change in the constituents of the entity
- (v) Copy of PoA to member of the society / trust.

If these documents are not submitted along with tender, then the credentials / experience as claimed by the tenderer shall not be considered.

18.2 Evaluation of eligibility of Registered Society & Registered Trust:

18.2.1 Technical Eligibility Criteria: The technical eligibility for the work as per Clause 12.1 shall be satisfied by the tenderer in its own name and style.

18.2.2 Financial Eligibility Criteria: The Financial eligibility for the work as per 12.2 shall be satisfied by the tenderer in its own name and style.

18.2.3 Bid Capacity: The tenderer shall satisfy the requirement of "Bid Capacity" requirement mentioned at Clause 12.3 duly verified & certified by the chartered accountant in its own name and style.

19 i) An offer shall become invalid if:

- (a) If the requisite Tender Document Cost and BID SECURITY is not paid online
- (b) If the offer is not submitted in the name of tenderer.

(c) If the offer is not digitally signed by the tenderer / by the Attorney / by the person authorized by the tenderer to sign and submit the tender on his / their behalf.

(d) If any Individual / Proprietor / Partnership Firm / Limited Company / JV Firm / HUF / Society uploads more than one offer either in his / their individual capacity or as a Proprietor or as a Partner / Member of Partnership Firm / JV Firm / HUF / Society or as a Director of any Limited Company etc.

(ii) An offer shall become incomplete and will get summarily rejected / if the following are not submitted:

(a) Documents as applicable in case of Proprietary Concern / Partnership Firm / JV Firm / Limited Company / HUF / Society, etc.

(b) Notarized Affidavit in standard format as mentioned on IREPS website.

(c) Any other document required for evaluation of the bid.

(d) FORM 12 D (Bid Capacity) in case if the tender value is more than Rs. 20 Cr and Form 12 A sheet 5 duly verified and certified by Chartered Accountant towards bid capacity requirement (If applicable).

(iii) An offer shall become ineligible if:

(a) The tenderer adds any condition on his / their own (anywhere in the e-offer), which is in violation of the Railway's Tender Conditions.

(iii) An offer shall become ineligible for award of the tendered work if the tenderer does not fulfill the Eligibility Conditions i.e. Standard Financial Eligibility Criteria, Standard Technical Eligibility Criteria & Bid Capacity. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document.

Note: The tenderer whether sole proprietor / a company or a partnership firm/joint venture (JV) /registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender / Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution,

failing which tender shall be summarily rejected.

A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.

Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.

20. LAST DATE FOR SUBMISSION OF TENDERS AND DATE OF OPENING OF TENDERS:

Tender is invited on e-tendering portal of CRIS. Tender offers shall be submitted on www.ireps.gov.in. All the details are available on the website. Tender submitted in any other mode other than through www.ireps.gov.in shall be summarily rejected.

21. ADDRESSES:

The list of addresses, to which correspondence and documents relating to the contract should be sent, is as under: -

(i) For all policy, Contractual and Commercial matters: -

The Sr. Divisional Electrical Engineer, TRD, DRM office, Mysuru 570021
Or

his successor/nominee (whose address will be intimated in due course)

(ii) For Security Deposit:

The Sr. Divisional Finance Manager, DRM office, Mysuru 570021
or
his successor/nominee (whose address will be intimated in due course)

(iii) For matters relating to particular design working drawing:

The Sr. Divisional Electrical Engineer, TRD, Mysuru 570021.
Or

his successor/nominee (whose address will be intimated in due course)

- (iv) For matters relating to basic design and drawings for fittings, components equipment's and prototype tests: -

The Director General (TI) Research Designs & Standard Organisation, Manak Nagar, Lucknow 226011.

- (vi) Matters relating to progressing of field work, scheduling of quantities and submission of bills.

The Sr. Divisional Electrical Engineer, TRD, DRM office, Mysuru 570021

22. INDIAN RAILWAYS STANDARD GENERAL CONDITIONS OF CONTRACT:

Indian Railway's Standard General Conditions of Contract' (Herein after referred as GCC) pertaining to works contract issued in April 2022 issued by Railway Board and as amended for advance correction slips issued upto date, shall be considered as forming part of this Tender Document.

If any clause(s) of the GCC is/are at variance with any of the specific clause(s) included in this agreement, the latter shall supersede the former only in respect of those clause(s) of this tender, which is/are at variance with GCC. GCC may be obtained by the tenderer/contractor on payment from any Divisional Railway Manager's office of concerned Railway.

23. COST OF TENDER DOCUMENT:

It will be governed by latest details available in IREPS website www.ireps.gov.in

24. PERFORMANCE GUARANTEES:

The procedure for obtaining Performance Guarantee is outlined below:

(a) The successful bidder shall have to submit a Performance Guarantee (PG) of 5% of the LOA value within 21 (Twenty-one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty-one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty-one) days, i.e. from 22nd day after the date of issue of LOA. Further, if the 60th day happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.

In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid security Deposit and other dues payable against that contract. In case a tenderer has not submitted Bid security Deposit on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in re-tender for that work.

(b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value:

- (i) A deposit of Cash;
- (ii) Irrevocable Bank Guarantee;
- (iii) Government Securities including State Loan Bonds at 5% below the market

value;

(iv) Pay Orders, Demand Drafts and Guarantee Bonds. These forms of Performance Guarantee could be either of the State Bank of India or of any Scheduled commercial Banks;

Guarantee Bonds executed or Deposits Receipts tendered by all Scheduled Commercial Bank of India;

(vi) Deposit in the Post Office Saving Bank;

(vii) Deposit in the National Savings Certificates;

(viii) Twelve years National Defense Certificates;

(ix) Ten years Defense Deposits;

(x) National Defense Bonds and

(xi) Unit Trust Certificates at 5% below market value or at the face value whichever is less.

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

(xii) Insurance Surety Bond as per Annexure-XVII

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

(c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.

(d) The value of PG to be submitted by the contractor is based on original contract value and shall not change due to subsequent variation (s) in the original contract value.

(e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.

(f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed in addition to forfeiture of Security Deposit available with railway.

(g) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

(i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.

(ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.

(iii) The Contract being determined or rescinded under clause 62 of the GCC.

(h) If a tender is accepted on the quoted rates of bidder which is below the advertised tender value, an additional performance security shall be submitted by the bidder as below

Bid quoted in % of advertised cost	Additional performance Guarantee (%)
Below 0-5%(inclusive)	Nil
Below 5%	5%

25. e-Payment

Tenderers are required to submit their bank details in the proforma given in FORM-24 to facilitate e-payment vide NEFT/RTGS, if any.

26. Whenever the contract is rescinded contractor shall return all the material to Railways which either Railway has supplied to him or for which he has taken any payment (including ONA) from Railways.

27. Bank Guarantees against Security Deposit, Performance Guarantee, Mobilisation Advance and On Account payment, to be submitted by the contractor should preferably be sent to the concerned authorities directly by the issuing Bank under Registered Post (AD).

28. Compliance with Public Procurement (Preference to Make in India) Policy:

This tender complies with Public Procurement (Preference to Make in India), Order 2017-Revision dated 19.07.2024 of Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India (herein referred to as PP-PIM), circulated vide Ministry of Railways (Railway Board)'s letter No.2020/RS(G)/779/2/Pt.1 (E3322671) dated 20.08.2024, and all its amendments. Only Class-I local suppliers (as defined in PP-PIM) shall be eligible to bid for list of items specified in Ministry of Railways (Railway Board)'s letter no.2025/RS(G)/779/3 (E3488356) dated 02.05.2025. For other items, only Class-I and Class-II local suppliers are eligible to bid. At the time of bidding, each bidder is required to indicate percentage of local content (as defined in PP-PIM) and provide self-certification that the item offered meets the local content requirement for "Class-I local supplier"/"Class-II local supplier", as the case may be. If this self-certification is not submitted, the bid will be summarily rejected. For contracts above Rs.10 crores, the provisions of Para 9(c) of PP-PIM shall be additionally applicable. For the purposes of this NIT, the "local content" (as defined in PP-PIM) requirement to categorize a supplier as "Class-I local supplier" is minimum 50% and for "Class-II local supplier" is minimum 20%. Also, the Margin of Purchase Preference (as defined in PP-PIM) is 20%. The procedure for preference to Make in India shall be as specified in PP-PIM. Uploading of self-certificate for meeting the local content requirement for "Class-I local supplier"/"Class-II local supplier", as the case may be (proforma attached). Non-submission of this certificate will lead to summary rejection of bid.

TECHNICAL SPECIFICATION

1) Technical Specifications

The Mobile PSI Testing system for 25 kV and 2x25 kV Traction system should be completely equipped to perform specified tasks as listed in specification.

1. The system should have capability to work in highest induction zone up to 765 kV (765/400/220/132/110/66/25 KV) switch yards.
2. The system should have single operating console which should communicate with all individual modules/equipment and display the results on single screen in same software for integrated instrument.
3. In system the entire operation control should be carried out for integrated instrument via a central operating PC, that controls and switches the individual equipment, surveys the measurement results, and produces the test reports. There should be single software for complete testing with different mode which can be controlled through software with the help of switchbox. Switchbox will control below different modes.
 - a. LV Mode – All test related to LV testing like three phase turns ratio, excitation current, phase angle deviation, Static winding resistance, dynamic resistance, demagnetization with display of % remanence will be conducted through LV Cables (H and X) with one-time connections.
 - b. HV Mode – All test related to HV testing like Insulation resistance 10KV, Tan Delta 12KV, narrow band DFR(1-505Hz), Individual temp correction for Tan Delta value and Frequency domain spectroscopy will be conducted through HV cables (HV 12KV, Red, Blue and interlock) with one-time connections.
 - c. SFRA Mode – For SFRA testing through Generator and measurement cables.
4. Control unit should have below features
 - a. Main Switch and Circuit Breaker
 - b. Line Voltage Indicator
 - c. Error indicators (Left and right rear door open, earthing connection, Emergency switch activated, Cable Unwind mode, Voltage between the vehicle chassis and surrounding ground)
 - d. Operating mode activation indicator (LV, HV, SFRA)
5. Mobile Testing System should also have printer in it for printing the test reports.
6. Separate laptop with all necessary pre-installed software for testing instruments shall be provided.
7. Live HD CCTV camera with magnetic base to stick on the electrical equipment or structure surface for better communication between testing personnel

8. All integrated equipment should be from single OEM.
9. Input Power Supply Single Phase AC, 230 Volt +10%, 50 Hz +3%
10. Temperature and Humidity Operating: -10°C to +55°C Storage: -20°C to +65°C
Humidity: < 90%RH, non-condensing
11. Mobile System –
 - a. It shall be possible to use with a suitable payload and space as suitable.
 - b. The system should have separate compartments for
 - i. Front Compartment – having facility of sitting one person along with driver while moving.
 - ii. Middle Compartment (Office/Operator compartment) - having sitting capacity of one additional person along with operator for operation and control.
 - iii. Rear compartment – having facility for connection, power supply, cables.
 - c. Quality - The instruments and systems shall be produced to meet the ISO 9001:2000 standard. The system must be CE certified.
 - d. Safety - It should meet the safety requirement of IEC1010-1 and ASTM D999.7528 or latest standard
 - i. Proper grounding should be there for safety. The earth cable establishes the connection between the system and the protective earth and ensures that the entire system is touch- proof.
 - ii. Auxiliary grounding should also be provided by placing the earth spike into the ground in the immediate vicinity of the system and attach the auxiliary earthing cable to it so that control module can indicate when voltage between the vehicle chassis and surrounding ground (auxiliary earth) is higher than 40 V.
 - iii. Vehicle should be equipped with proper earth matting and red/green signal system for checking the proper earthing of system.
 - iv. External safety device should be provided so that status of the system can be indicated outside and the HV processing can be interrupted or blocked using the EMERGENCY OFF switch and key switch.
 - e. The system should be fully air-conditioned (AC operated through auxiliary supply 230V AC).
 - f. Furniture - Ergonomic work place with adequate desktop, functional floor cupboard, and revolving chair with locking facility.
 - g. Vendor should do the vehicle registration & insurance (3 years) in name of railway. Supplier shall take care of the insurance and routine maintenance and breakdown

attention of the Van for a period of 3 years and no additional payment shall be made in this regard.

- h. Mobile Testing System should have DG facility for operation without AC mains supply at site.
 - i. Vehicle/Mobile Testing System (Make -Force Traveller within which all fabrication of the above testing equipment will be done). Shall be supplied by the supplier. Further, for Mobile Testing System the routine maintenance and breakdown attention for 3 years shall be the responsibility of supplier and no additional payment shall be made in this regard.
- 12. Design measures for proper safety of the equipment during transportation & for handling shall be ensured.
 - 13. Warranty- Shall be as per Clause of SCC . Warranty will cover all material / equipment / software / hardware supplied.
 - 14. In case of Vehicle breakdown conditions, provision to utilize equipment shall be made by the supplier.
 - 15. Testing and commissioning to be done by OEM Engineers and Two-week training on site to be given 15 no's Railway Engineers and six months assistance given for operation of system.
 - 16. The bidder should be original manufacturer or authorized agent/dealer of the original equipment manufacturer of the Testing Mobile Testing System.
 - 17. Tendering authority may call all bidders for a demonstration of PSI Mobile Testing System before price bid opening of tender to evaluate the TS of tender and price bid of technical clear party will only be opened.
 - 18. OEM of PSI Testing Mobile Testing System should have factory and service center in India to support the product throughout its life cycle.

19. DOCUMENTATION:

The supplier shall furnish nicely printed and bound volumes of the instruction manuals in English language, prior to the dispatch of the equipment. The instruction manual shall contain step by step instructions for all operational and maintenance requirements for all the testing equipment. It should also include the GA and detailed schematic drawings including internal wiring diagram of the various equipment.

20. PSI Mobile Testing System testing facility

- I.** The system should be capable of doing below test in integrated way

A. DC Insulation Testing 10 KV with IR, PI, DAR, DD, RAMP Testing

B. Winding Resistance measurement for single/three phase transformer

- a. OLTC DRM Testing – Tap Changer Testing
- b. Auto Discharge
- c. Demagnetization

C. Turn Ratio measurement for single/three phase transformer

D. Tan Delta & Capacitance Measurement (25V to 12KV)

- a. Individual Temperature Correction (ITC) of Tan Delta /Power Factor
- b. Narrow band DFR (1-505Hz)

E. Tan Delta/Power Factor & Oil Conductivity using frequency domain spectroscopy technique

F. Mechanical Condition Assessment of Transformer using SFRA

G. Acoustic Imager for Partial Discharge

H. Vacuum Interrupter / BM Tester (VIDAR)

I. Oil BDV Measurement

Note: All integrated testing system should have cable length of 30 meters.

II. The system should be capable of doing below test in portable/standalone

A. Static Contact resistance

B. Magnetic Balance testing

C. CT and PT Analyzer

D. Circuit Breaker Timing tester.

E. Battery Impedance Testing.

F. Relay Test Kit.

Note: All portable testing system should have cable length of 15 meters

21. Detailed technical specification of test (up to 765/400/220/132/110/66/25kV)

A. DC Insulation Testing 10 KV with IR, PI, DAR, DD, RAMP Testing.

- a. Functional Requirement: Automatic IR, PI, DAR, SV, DD & Ramp test, Burn Mode
- b. Guard terminal Performance: Guard out parallel leakage resistance with a max error of 2%.
- c. USB interface, Bluetooth facility, Memory for storage of results also the should be able to operate remotely using USB cable.
- d. Kit should have Mains (without battery) operation & rechargeable battery operation For Mains 250V, 50Hz AC supply and 6 hrs of battery operation in case of operated through battery.
- e. v. IP65 rated & CAT IV rating, safety as per IEC61010-1 & EMC as per IEC61326-1.

- f. Voltage Characteristics: The kit should have capability for sharp voltage rise even in case of low resistance value say 1Mohm kit should be able to inject 5kV@1Mohm if desire voltage range is 5kV.
- g. Measurement Range: Range 10Kohm to 35Tohm at variable test voltage from 50V to 10KV (250V, 500V, 1000V, 2500V, 5000V, 10000V), 50V to 1kV 10V Step, 1kV to 10kV in 25 V step.
- h. Test Current: Short circuit current 6mA & noise rejection up to 8 mA

B. Winding resistance

- a. Output Current 16A for three phase transformers with compliance voltage 50V.
- b. Output Current 100A for single phase transformer
- c. Resistance Measurement range - 10 mΩ – 10 kΩ (Auto ranging)
- d. Accuracy - 0.15 % RD + 0.15 % FS
- e. Resolution - Up to 4 digits
- f. Dynamic OLTC Measurement (Resistance, Voltage, Current) with provision of remote changing of the taps automatically and manually from system itself and software should be capable to display actual transient resistance value (parallel) of OLTC.
- g. Auto Discharge
- h. System should be capable to demagnetize the transformer effectively and post demagnetization system should be capable to display the % remanence pending in the transformer with live BH curve plot.
- i. System should be capable to demagnetize the transformer very fast and time taken should not be more than 5 minutes for any rating of transformer.

C. Turn Ratio measurement for single/three phase transformer

- a. Up to 250 V test voltage for accurate testing of power and instrument transformers
- b. Range - 2500:1 – 1:2500 (Auto range)
- c. Accuracy - 0.07 %
- d. Resolution - Up to 4 digits
- e. Excitation current - 1mA to 2000mA or higher
- f. Phase Angle Accuracy : 0.1 Degree
- g. Phase Angle Measurement: up to 360 Degree

D. Tan Delta - 12 kV AC dissipation factor and capacitance testing

- a. AC Voltage 25V-12 kV AC (continuously variable), 500 mA for short time, 100 mA for continuous
- b. Tip-up testing
- c. Frequency range 1-505 Hz. 0-250V AC - 1-505 Hz

0-2kV AC - 10-505 Hz
 0-4kV AC - 15 -505 Hz
 0-12kV AC - 45-70 Hz

d. Accuracy

Capacitance $\pm 0.5\%$ of reading ± 0.1 pF Dissipation factor $\pm 0.005\%$
 Inductance $\pm 0.5\%$ of reading + 1 mH
 Watt loss $\pm 1\%$ of reading + 1 mW

e. Measurement Range

Capacitance 0–100 μ F, 0.01pF maximum resolution
 Dissipation factor 0-100%, 0.001% maximum resolution

- f. The system should be capable to drive individual temperature correction by taking tan delta at wide frequency from 1 to 505Hz and then generate Individual temperature correction factor according to actual condition of apparatus using Arrhenius equation.
- g. Automatic tan delta voltage dependence detection (VDD) will automatically detect if the dissipation factor is suspected to be voltage dependent and suggest a tip-up test.

E. Tan Delta/ Power Factor & Oil Conductivity using frequency domain spectroscopy technique

- a. The unit must be capable of measuring the Moisture in Paper of specimens like Transformers, CT's, Bushings.
- b. Method of analysis should be based on Frequency Domain Spectroscopy i.e. AC measurement.
- c. The equipment must be less sensitive to AC&DC Interference.
- d. The Frequency Domain analysis should be capable of identifying other issues like contamination/sludge.
- e. The test object should not be discharged before the start of the test.
- f. The equipment & the analysis method must be a tried and tested with at least 5years of global experience.
- g. Measurement time up to 1mHz would be around 22minutes.
- h. Measurement time up to 2mHz would be around 12 minutes.
- i. Mains Input (nominal): 90 - 265 V ac, 50/60 Hz
- j. Power Consumption (max): 250 VA
- k. Communication Ports: USB 2.0, LAN
- l. Output Voltage: 200V
- m. Output current ranges: 50mA (Peak) above 50Hz derating linearity to 30mA below 10Hz

- n. Frequency Range: DC - 1kHz
- o. Measurements Inputs: Channel 1, Channel 2, ground
- p. Capacitance Range: 0 – 20 μ F, 80 nF at 2 kV, 50 Hz
- q. Accuracy: 0.5% + 1 pF
- r. Dissipation Factor Range: 0 - 10 (with retained accuracy of capacitance; otherwise, higher)
- s. Accuracy: >1% +0.0003, 1 mHz - 100 Hz, C > 1 nF >2% +0.0005, 100 Hz - 1 kHz, C > 1 nF
- t. Noise Level: Max 500 μ A at 50 Hz/60 Hz
- u. Test Mode: 2 Channels
- v. Data management Software: Windows XP/ Windows7 for measurement control and data analysis
- w. Software: Operation and control: Yes (Standalone function)
- x. Reporting: Yes
- y. Automatic moisture estimation: Yes
- z. Predefined tests: Yes
- aa. Display tan delta/power factor at 50/60 Hz: Yes
- bb. Temperature compensation and data recalculation: Yes
- cc. Real-time signal waveform capture: Yes
- dd. Kit shall also be able to perform the mention below test
- ee. Excitation current Measurement
- ff. Tan Delta measurement @50 Deg
- gg. Oil conductivity
- hh. Tan Delta & oil conductivity should be able to convert using individual temperature correction to 20Deg for Tan Delta & 25deg for oil conductivity.
- ii. Protection/Control: Against short circuit, overvoltage, improper ground connection over load & transient surges, the kit should have alarm/cut - off features to protect the instrument. Also, the kit should have facility of stopping automatically on power failure as well as interlock for HV.

F. Mechanical Condition Assessment of Transformer using SFRA

- a. Functional Requirements: Should be capable of detecting mechanical failure or movement of windings due to short circuits, mechanical stresses, or transportation.
- b. Should make accurate & repeatable measurements
- c. Should accompany robust test leads that meets IEC Standards
- d. Data collection: Sweep frequency analysis

- e. Frequency range :0.1 Hz – 25 MHz
- f. No. of points: Up to 32 000 points, user selectable.
- g. Sweep settings: Individual settings for customer define frequency bands.
- h. Linear and logarithmic scale or combination of both.
- i. Dynamic range >130 dB
- j. Frequency resolution 0.01%
- k. Frequency accuracy 0.01%
- l. Level resolution 0.001 dB
- m. Accuracy ± 1 dB down to -100 dB
- n. IF bandwidth User selectable, default <10%
- o. Standard/Guides: Fulfills requirements in IEC 60076-18, IEEE C57.149-2012, CIGRE Technical Brochure 342, DL/T 911- 2004, as well as other international standards and recommendations.
- p. As per Cigre Brochure a suitable calibrator should be provided along with kit for verification of integrity of cables & instrument before & after test.
- q. Analog source Channel 1:
- r. Voltage output Adjustable :0.20 – 20 V peak to peak
- s. compliance voltages.: 0.10 – 10 V p-t-p in 50 Ω load
- t. Output impedance: 50 ohms
- u. Protection: Protected against overload and short circuit
- v. Frequency range: 0.1 Hz – 25 MHz
- w. Analog source Channel 2
- x. Sampling: Simultaneously
- y. Frequency range: 0.1 Hz – 25 MHz
- z. Input impedance: 50 Ohm
- aa. a. Sample rate: 100 MS/s
- bb. b. Data display: Plotting Magnitude (linear or log) Phase Difference, Impedance, Admittance, Inductance, Resistance, Customer defined Scaling Linear and logarithmic or combination
- cc. Data analysis: Sub-band analysis Difference DL/T 911-2004 standard, User-defined correlation analysis
- d. d. Data analysis: Sub-band analysis Difference DL/T 911-2004 standard, User-defined correlation analysis

G. Data analysis: Sub-band analysis Difference DL/T 911-2004 standard, User-defined correlation analysis

For using this testing multifunction kit has to be brought out of transformer test Mobile Testing System and can be used as portable/standalone unit.

- a. Test current: Min. 100 Amps. (Or higher), continuous variation, regular or in steps.
- b. Resistance Range - 0 to 2500 micro-Ohm
- c. Accuracy - 0.15 % RD + 0.15 % FS
- d. Resolution - Up to 4 digits

H. Magnetic Balance test

For using this testing multifunction kit has to be brought out of transformer test Mobile Testing System and can be used as portable/standalone unit. Kit should have capability to test magnetic balance test of transformer.

I. CT and PT Analyser

For using this testing multifunction kit has to be brought out of transformer test Mobile Testing System and can be used as portable/standalone unit.

J. Current Transformer

- a. Ratio, burden, and polarity by voltage method
- b. Phase and magnitude error
- c. Excitation curve (Knee – point up to 2KV)
- d. Winding Resistance
- e. Secondary burden

K. Voltage Transformer

- a. Ratio and polarity by voltage method
- b. Phase and magnitude error
- c. Secondary burden

Current & voltage method Current up to 750 A Voltage range 250 V for ratio & 2 KV for Knee point CT meter class 0.1, 0.2 Protection class PS Class, TPS, TPY, TPZ etc

L. Circuit Breaker Timing Tester

For using this testing multifunction kit has to be brought out of transformer test Mobile Testing System and can be used as portable/standalone unit.

- a. The portable instrument suitable for measuring the tripping and close time of Circuit Breakers having single break per phase. The testing kit shall be able to perform tests with dual ground on both side of the breaker.

- b. Kit should measure three phases close, open, C-O timing along with bounce.
- c. It should also measure coil current during closing and opening operation.

M. Battery Impedance Testing

Supply of Battery Impedance Test Kit, which is required for Diagnosis of Battery condition in electrical interference atmosphere up to Battery String Voltage of 200 V DC – on line. The instrument should be lightweight, Portable and Operate on live DC Battery Bank without any down time

- The test set should able to measure the Impedance of different types of batteries up to 2000AH.
- The test set shall be capable of on-line testing of batteries with Pass/Warning/Fail Calculation.
- The test set shall able to measure 1000A AC/DC current with additional clamp-on meter.
- The instrument should be able to measure 1000V DC and 600 V AC for Complete maintenance of battery and battery charger/UPS.
- The instrument should be able to measure the ripple voltage with different frequency range starting from 40 Hz to 10 kHz.
- The instrument should be able to measure the temperature of cell from negative post of batteries with impedance measurement for VRLA batteries.
- The instrument should be able to help while discharging the batteries to record and trend voltage, dc current and ripple current or Impedance, voltage and temperature data in periodic manner.
- Instrument should have on-board data analysis including % change from the last test, cell % deviation from the string average and % variation from the baseline impedance value. The data should be displayed in numerical form with status, in % deviation impedance graph and in ascending % deviation impedance graph for superior evaluation of battery condition.
- The test set should be capable of testing of many battery configurations in Single Rack to complex parallel strings in combined space.
- The test set should be able indicate measuring status (LED/buzzer/Display).
- The test set should able to measure the impedance, float voltage, Temperature, float current, ripple current in online, without disconnecting the battery/charger from system.
- The test set should be protected against Over Voltage and reversed leads.
- As soon as the measurement is taken Instrument should immediately display cell comparisons to make quick cell analysis.
- The test instrument should be able to store max 1000 records and more than 500 VA records.
- The Battery Impedance Tester should have mini-USB port with cable for importing reports to PC.

Other Specifications

Power Supply AC/Adapter Input 100 – 240 V AC (50/60 Hz) Output 12 V DC at 2.5A,

Output Current 2A Peak

Battery Li-ion rechargeable pack > 5.4 Ah

Display Analysis, 160 x 90 mm touch screen

Setting time 10 Sec (Max.) Per reading

Impedance Range and Resolution:

Range	Resolution	Accuracy
3 mΩ	1 μΩ	+/- 1 % of reading +/- 10 digits
30 mΩ	10 μΩ	
300 mΩ	100 μΩ	
3 Ω	1 mΩ	
30 Ω	10 mΩ	
300 Ω	100 mΩ	

Voltage Range and Resolution:

Range	Resolution	Accuracy
5 V DC	0.001 V	+/- 0.5 % of reading
50 V DC	0.01 V	
500 V DC	0.1 V	
1000 V DC	1 V	
5 V AC	0.001 V	+/- 0.75 % of reading +/- 10 digits (40 Hz – 100 Hz)
50 V AC	0.01 V	
500 V AC	0.1V	
600 V AC	1 V	

Current Range and Resolution:

Range	Resolution	Accuracy
4 A DC	0.001 A	+/- 0.5 % of reading +/- 5 digits + (CT Tolerance)
40 A DC	0.01 A	
400 A DC	0.1 A	

1000 A DC	1 A	
4 A AC	0.001 A	+/- 0.75 % of reading +/-10 digits + (CT Tolerance)
40 A AC	0.01 A	
400 A AC	0.1 A	
1000 A AC	1 A	

Temperature

Range	Resolution	Accuracy
10 °C ~ 100 °C	0.1 °C	+/-1 °C +/- 2 digits

Ripple Voltage

Range	Resolution	Accuracy
0-5 V	0.001 V	+/- 0.5 % of reading +/- 10 digits (40 Hz – 10 KHz)

Operating Environmental conditions:

Operating	:	0 ~50 °C (32~122 °F)
Storage	:	-20 ~50 °C (-4~122 °F)
Charging temperature	:	10 ~40 °C (50~104 °F)
Relative humidity	:	10 ~ 85 % NC non-condensing
Altitude Operational	:	0~2000 m (non-operational 0~10000 m)
Ingress protection	:	IP54

N. Relay Test Kit

1. The test kit must include railway application relay templates.
2. The unit should support relay manufacturer file formats such as .xrio, rio, .txt, .xml, and .csv.
3. Verification or testing of high burden relays at low current settings must be performed by the test unit without any amplifier or external booster (75A/400VA RMS).
4. To verify the slope characteristics of the differential function, the unit requires a maximum secondary current of 15A.
5. The unit should be capable of time synchronization with any make of GPS.
6. Users have the flexibility to create their own templates, which can be particularly useful during shutdown periods.
7. The software must support the export of PDF file format.

8. The auto reclosure function should be able to test as per RDSCO requirements, with a minimum of 100 states in the state sequencer module.
9. Breaker Backup (LBB) protection test.
10. Vectorial Delta-I protection test.
11. Test the Master trip and TCS relay timing.
12. The unit software should be able to draw the characteristics of WPC on a distance graph.
13. The unit software should allow the user to draw the distance characteristics (QUAD/MHO/Off MHO, etc.) in a generic module.
14. High power binary output (300VA @ 8A) is required, with programmable NC or NO contacts to simulate circuit breaker operation for testing reclosing relays. Sequence of operation, timing, and lockout are easily tested.
15. The kit should have IEC 61850 9-2 LE Sampled Values / IEC 61850-8-1 options available for future use.
16. The kit should have USB, RJ45 (LAN), and Wi-Fi options to connect with a system/laptop.
17. The kit shall be able to generate continuous sine waves with a frequency between 0.1 and 1000 Hz and to generate transient files with a bandwidth from DC up to 10 kHz. Frequency error should be less than 25 PPM, phase error should be less than ± 0.25 degrees, and the resolution of time measurement should be 1 ms or better.
18. The kit should be able to perform acceptance or troubleshooting tests by replaying digitally recorded faults or EMTP/ATP simulations in the IEEE C37.111/IEC 60255-24, COMTRADE Standard format.
19. The kit must have the facility to introduce 100 states minimum with a time duration as low as 10 milliseconds for each state, considering power system conditions context-wise.
20. All Mobile Testing System software, such as Mobile Testing System distance, Mobile Testing System differential, and special protection software to test all types of relays, should be supplied free of cost along with the instrument.
21. In all equipment if any software upgradation is required in future, that will be provided free of cost by the supplier at that time.

SPECIAL CONDITIONS OF CONTRACT

1. DEFINITION OF SIMILAR NATURE OF WORKS:

Following similar nature of work is proposed for the subject work:

"Design, Supply, installation, testing & commissioning of mobile PSI testing system / mobile testing lab / testing Mobile Testing System for electrical sub-station (25 kV/66 kV /110 kV/ 132 kV/220 kV/ 400kV) / switching station (SP/SSP), having facilities for measurement, recording, generating & analysing test report for various tests viz. Insulation Resistance, Winding Resistance, Turn Ratio, Tan Delta, Capacitance, Relay Test, Oil BDV, CB / BM Timing, CT & PT analyser etc."

Special Technical criteria:

- i. " The bidder should be original manufacturer or authorized agent of the original equipment manufacturer of mobile PSI testing system.**

(If Bidder is OEM, a self-attested certificate to that effect shall be submitted by the bidder. In case bidder is an authorized agent of OEM, an authorisation certificate from OEM must be submitted. Non-submission of this document shall result in summarily rejection of the Firm's offer)

- ii. OEM of PSI Testing System should have manufacturing facility and service center within India to provide service support for the mobile PSI testing system throughout its life cycle.**

(A self-attested certificate to that effect duly attaching OEM's registration details of Factory License and details of Pan India service centres shall be submitted by the bidder. Non-submission of this document shall result in summarily rejection of the Firm's offer)

- iii. All equipment integrated in mobile PSI testing system should be from single OEM.** (A self-attested certificate to that effect shall be submitted by the bidder. Non-submission of this document shall result in summarily rejection of the Firm's offer)".

INSURANCE:

The contractor shall take out and keep in force a policy or policies of insurance against all liabilities of the contractor or the railway at common law or under any statute in respect of accident to persons who shall be employed by the contractor, in or about the site or the contractor's Office for the purpose of carrying out the contract works on the site. The contractor shall take about and keep in force a policy or policies of insurance against all recognized risks to their office accommodation and storage for which he is liable. Such insurance shall be in all respects be subject to the approval of the Railway.

WARRANTY:

- i. Warranty period will be 24 (Twenty-Four) months from the date of commissioning. Further, in case any modifications made in the assembly/sub-assembly/part/equipment because of unsatisfactory performance, the period of warranty i.e., 24 months would commence from the date the modified assembly/sub-assembly/part/equipment is put into service.
- ii. The contractor shall at his own expense, replace any assembly/sub- assembly, part/equipment of Mobile Testing vehicle which fails or proves unsatisfactory in service due to defective/faulty design, defective material or bad workmanship during Warranty period.
- iii. Contractor shall attend any defect observed / malfunctioning of any equipment under warranty period, at the earliest within 4 weeks of written intimation from Railway. Failure in timely service will be dealt as per clause 47 of GCC.

PRICE AND PAYMENT

The terms and conditions of payments for the various items of work to be executed under this contract shall be as follows:

PRICES:

Prices shall be quoted as per details shown in Schedule of work. The prices quoted shall be firm and not subject to variations for any reasons whatsoever. The prices quoted shall be NET including all taxes and duties etc.

PAYMENT:

- i. The contractor shall be paid 80% of the Contract Price after the design, supply and installation of mobile PSI testing system. The necessary certificate of satisfactory installation shall be issued by concerned authority of Railway.
- ii. The contractor shall be paid 15% of the Contract Price after satisfactory commissioning of mobile PSI testing system. This will include demonstration of complete testing facility with live testing in one TSS, one SP and one SSP nominated by Purchaser. The necessary certificate of satisfactory commissioning shall be issued by concerned authority of Railway.
- iii. The contractor shall be paid 5% of the Contract Price after completion of training of minimum 05 Nos. of Supervisors / Technician of Purchaser who will operate the testing facility.

DEDUCTION OF INCOME TAX AT SOURCE: In terms of new section 194-C inserted by the Finance Act, 1972 in the Income tax Act, 1961 the Railway shall at the time of arranging payments to the contractor and/or subcontractor (in the case of subcontractor only when the Railway is responsible for payment of consideration to him under the contract) for carrying out any work (including supply of labour for carrying out any work) under the contract, be entitled to deduct income tax at source on income comprised in the sum of such payments. The deductions towards Income tax to be made at source from the payments, due to non-residents shall continue to be governed by section 195 of the Income tax act 1961.

GST CLAUSE: During submission of offer, the contractor has to quote the rate inclusive of GST. The contractor has to produce the invoice while submitting the running bill.

Tenders will examine the various provisions of the central goods and service Tax Act, 2017 (CGST)/Integrated Goods and services Tax Act, 2017 (IGST)/Union Territory Goods and Services Tax Act 2017 (UTGST)/respective state's state Goods and services Tax (SGST) also, as notified by central/state Govt. & as amended from

time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of

input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.

The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST And shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act railway immediately after the award of contract, without which no payment shall be released to the contractor. The contractor shall be responsible for deposition of applicable GST to the concerned authority.

In case the successful tenderer is not-liable to be registered under CGST/IGST/UTGST/SGST At the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.

Rates for Items of Works: However, if rates of existing GST or cess on GST for Works Contract is increased or any new tax /cess on Works Contract is imposed by Statute after the date of opening of tender but within the original date of completion/date of completion extended under clause 17 & 17A and the Contractor thereupon properly pays such taxes/cess, the Contractor shall be reimbursed the amount so paid.

Further, if rates of existing GST or cess on GST for Works Contract is decreased or any tax/cess on Works Contract is decreased / removed by Statute after the date of opening of tender, the reduction in tax amount shall be recovered from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.

Price Variation:

The accepted prices shall remain firm and there shall be no variation in prices during contract period.

Check List for Uploading /Submission of Documents:

A	List of documents to be uploaded/submitted for participating in the tender (Whichever is applicable for this tender work).
	a) Up to 50 Lakhs:
1	GSTIN.
2	Annexure - V as per tender document.
3	Local Content Proforma for Make in India Policy.
	b) Above 50 Lakhs:
1	Annexure - V as per tender document.
2	GSTIN.
3	Annexure - VI B.
4	Local Content Proforma for Make in India Policy.
5	<p>Financial eligibility criteria - "The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees, N= Number of years prescribed for completion of work for which bids have been invited. 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. The tenderers shall submit requisite information as per Annexure-VI B, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant /Certificate from Chartered Accountant duly supported by Audited Balance Sheet".</p> <p>NOTE: Tenderer may note that CA Certificate alone without copies of audited balance sheet/income tax returns will not be considered for evaluation.</p>
6	<p>Technical eligibility criteria –</p> <p>The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:</p> <p>(i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender</p>

SOUTH WESTERN RAILWAY**TENDER FORM (First Sheet)****Tender Notice No. Y/E.29/2026-27/32 Dt: 11.06.2026.****Name of work: "Design, Supply, Erection and testing of mobile PSI testing system for 25/ 2x25 kV traction system".****To,****The President of India,****Acting through the Sr. Divisional Electrical Engineer****South Western Railway,****Mysore – 570 021**

I/We_____ have read the various conditions to tender attached hereto and agree to abide by the said conditions. I/We also agree to keep this offer open for acceptance for a period of **60 days** from the date fixed for closing of the tender and in default thereof, I/We will be liable for forfeiture of my/our "Bid Security". I/We offer to do the work for South Western Railway, Mysore Division, at the rates quoted in the attached bill(s) of quantities and hereby bind myself/ourselves to complete the work in all respects within **07 months** from the date of issue of letter of acceptance of the tender.

2. I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract, with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/Specifications, Schedule of Rates (SSOR) with all correction slips up-to-date for the present contract.

3. A Bid Security of **Rs.16,51,300** has already been deposited online/ submitted as Bank Guarantee bond. Full value of the Bid Security shall stand forfeited without prejudice to any other right or remedies in case my/our Tender is accepted and if:

(a) I/We do not submit the Performance Guarantee within the time specified in the Tender document;

(b) I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and

(c) I/We do not commence the work within fifteen days after receipt of orders to that effect.

4. (a) I/We am/are a Startup firm registered by.....Department of Industrial Policy and Promotion (DIPP) and my registration number is valid up to(Copy enclosed) and hence exempted from submission of Bid Security.

5. We are a Labour Cooperative Society and our Registration No. iswithand hence required to deposit only 50% of Bid Security

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

Signature of Witnesses:

(1) _____

(2) _____

Signature of Tenderer(s)

Date_____

Address of the Tenderer(s)

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

I.....(Name and designation) **appointed as the
Attorney/ authorized signatory of the tenderer (including its constituents),M/s

_____ (here in after called the tenderer) for the
purpose of the Tender documents for the work of _____ as p e r the
tender No _____ of _____ (Railway)**, do hereby
solemnly affirm and state on the behalf of the tenderer including its
constituents as under:

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

capacity or as a HUF/member of the partnership firm/LLP/JV/Society/Trust.

8 I/we understand that if the contents of the certificate submitted by us are found to be forged/false or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security **and may also lead to any other action provided in the contract including banning of business for a period of up to two years.** Further, I/we (insert name of the tenderer)

******_____and all my/our constituents understand that my/our offer shall be summarily rejected.

9 I/we also understand that if the contents of the certificate submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee **and may also lead to any other action provided in the contract including banning of business for a period of up to two years.**

10 I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed).

Signature of Tenderer with seal

Place:

Dated:

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

PROFORMA FOR SELF-CERTIFICATION OF LOCAL CONTENT

I/We (Name of the bidder) represented by on the behalf of tenderer hereby certify that the local content, as defined by Public Procurement (Preference to Make in India), Order 2017-Revision dated 19.07.2024 of Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India is . (percentage of local content).

This qualifies me as a "Class-I local supplier"/" Class-II local supplier" (please tick whichever is applicable).

(Note: For qualification as "Class-I local supplier" the minimum local content should be 50% and for "Class-II local supplier the minimum local content should be 20%).

Details of the locations at which local value addition is made are as follows:

- 1.....(location name)
- 2.....(location name)
- 3.....(location name)
- 4.....(location name)
- 5.....(location name)

Place:

Date:

Signature of Tenderer with seal

Price Schedule – A

Name of work: "Design, Supply, Erection and testing of mobile PSI testing system for 25/ 2x25 kV traction system".

Sl. No.	Description of items	Unit	Qty	Rate (in Rs.)	Total (in Rs.)
1	Design, Supply, Erection and testing of mobile PSI testing system for 25/ 2x25 kV traction system	Set	1	8,25,63,571/-	8,25,63,571/-
	Grand Total				8,25,63,571/-

The quantities shown in above Schedule are approximate and are as a guide to give the tenderer(s) an idea of quantum of work involved. The Railway reserves the right to increase/ decrease and/or delete or include any of the quantities given above and no extra rate will be allowed on this account.

I/We undertake to do the work at _____% above/below the Schedule of Rates of the South Western Railway as applicable to Mysore Division or at the rates quoted above for each item.

Dated _____

Signature of the Tenderer (s)

****** End of Booklet ******