Standard Bidding Document

15/0003/P-Plan-25-26-CEN/1-2025 FOR THE PROCUREMENT OF PORTABLE ULTRASONIC RAIL FLAW DETECTION MACHINE ETC = 03 ITEMS
(Goods)

National

Single Stage-Two Envelope

November 03, 2026

Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office),CCP
PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE
Phone: +92-429-920-4022, Email: ccp@pakrail.gov.pk

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REQUEST FOR BIDS

PROCUREMENT OF GOODS

1. The **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office)** has reserved Funds for the procurement planned for FY **2026-27**. The **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office)** intends to apply part of the proceeds of this Fund to cover eligible payments under the contract for the "**15/0003/P-Plan-25-26-CEN/1-2025 FOR THE PROCUREMENT OF PORTABLE ULTRASONIC RAIL FLAW DETECTION MACHINE ETC = 03 ITEMS**" with the reference of **"P182157"**

2. The **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office)** invites sealed Bids from eligible Bidders for procurement of goods described in the bidding documents on **EPADS v2.0**.

3. **Single Stage-Two Envelope** will be used by adopting **Least Cost Based Selection (LCBS)** Technique for the subject procurement, in line with the Public Procurement Rules, 2026 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority from time to time.

4. All Bids must be accompanied by a Bid Security amount described in Bid Security Section in Bidding Document in the form of **Pay Order, Call at Deposit, Bank Guarantee, Demand Draft** or all bids must be accompanied by bid securing declaration in the format specified in the Bidding documents

5. E-Bidding documents, containing detailed terms & conditions, specifications and requirements etc. are available on **e-Pak Acquisition and Disposal System (EPADS)** at **https://epads.gov.pk/opportunities/federal/procurements/182157** for all the interested bidders registered on **EPADS v2.0**. Bidders are required to get themselves registered on **EPADS v2.0** to participate in Bidding process.

6. The e-bids, prepared in accordance with the instructions in the e-Bidding Documents, must be submitted through **EPADS v2.0** on or before **Friday, November 13, 2026 10:30 AM**. E-bids will be opened using **EPADS v2.0** on the same day at **Friday, November 13, 2026 11:00 AM**. Manual submission of Bids shall not be entertained. Those vendors who have not yet registered on the new version of **EPADS v2.0,** may register themselves on **https://vendors.epads.gov.pk/**. A tutorial to explain the registration process is available at **https://www.youtube.com/watch?v=MNW6T38v7tc**

In terms of Rule 65 of Public Procurement Rules, 2026 Grievance Redressal Committee (GRC) is notified for the subject procurement and notification copy is available on the procuring agency's website and on Authority's website at (**www.ppra.gov.pk**).

Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP
PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE
+92-429-920-4022
ccp@pakrail.gov.pk

Instructions to Bidders

A. Introduction

1.Scope of Bids

1.1 The Procuring Agency (PA), as indicated in the **Bids Data Sheet (BDS)** invites Bids **through EPADS v2.0** for the provision of Goods as specified in the BDS and **in Section V – Evaluation Criteria, Specifications & Schedule of Requirements**. The name, identification, and number of items/deliverables are provided in the **BDS**. The successful Bidders will be expected to provide the goods within the specified period and timeline(s) as stated in the **BDS**.

2. Source of Funds

2.1 Source of funds is referred in Clause-2 I of Invitation for Bids.

3. Eligible Bidders

3.1 A Bidder may be natural person, company or firm or public or semi-public agency of Pakistan or any foreign country**,** or any combination of them with a formal existing agreement (on Judicial Papers) in the form of a joint venture, consortium, or association. In the case of a joint venture, consortium, or association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of the contract.

Verifiable copy of the agreement that forms a joint venture, consortium or association shall be required to be submitted as part of the Bid.

The appointment of Lead Member in the joint venture, consortium, or association shall be confirmed by submission of a valid Power of Attorney to the Procuring Agency.

Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated (or post qualified if required) with respect to its contribution only, and the responsibilities of each party shall not be substantially altered without prior written approval of the Procuring Agency and in line with any

instructions issued by the Authority.

(The limit on the number of members of JV or Consortium or Association may be prescribed in BDS, in accordance with the guidelines issued by the PPRA).

3.2 The invitation for Bids is open to all prospective suppliers, manufacturers, or authorized agents / dealers subject to any provisions of incorporation or licensing by the respective national incorporating agency or statutory body established for that particular trade or business. Procuring agencies shall specify the registration/licensing requirements for the foreign bidders keeping in view the requirement of that business.

3.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest with one or more parties in this Bidding process, if they:

1. are associated or have been associated in the past, directly or indirectly with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the Goods to be purchased under this Invitation for Bids.

2. have controlling shareholders in common; or

3. receive or have received any direct or indirect subsidy from any of them; or

4. have the same legal representative for purposes of this Bid; or

5. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bids of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

6. Submit more than one Bid in this Bidding process.

3.4 A Bidder may be ineligible if –

1. he is declared bankrupt or, in the case of company or firm, insolvent;

2. payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property;

3. the Bidder is convicted, by a final judgment, of any offence involving professional conduct;

4. the Bidder is blacklisted locally or by international organizations and hence debarred due to involvement in corrupt and fraudulent practices, or submission of false or misleading information or performance failure or involved in disrupting procurement process or due to breach of bid Securing Declaration.

3.5 As and when required, bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

3.6 Bidders shall submit Bids relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten (10) percent of the Bid price is envisaged.

4. Eligible Goods and Related Services

4.1 All goods and related services to be supplied under the contract shall have their origin in eligible source countries, and all expenditures made under the contract will be limited to such goods and services. For purpose of this Bid, ineligible countries are the countries declared ineligible by the Federal Government.

5. One Bid per Bidder

5.1 A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.

5.2 **The Bidder shall not engage a subcontractor for any portion of the contract if the value of such subcontracting exceeds thirty percent (30%) of the total contract amount.**

6. Cost of Bidding

6.1 Any cost incurred by the bidder relating to the preparation and submission of its Bid shall be borne by the bidder, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. Bidding Documents

7. Contents of Bidding Document

7.1 The Goods required, Bidding procedures, and terms and conditions of the contract are prescribed in the Bidding Documents. In addition to the Invitation for Bids, the Bidding documents which should be read in conjunction with any addenda issued in accordance with **ITB 10.1** include:

Section I -Invitation to Bids

Section II Instructions to Bidders (ITB)

Section III Bid Data Sheet (BDS)

Section IV Evaluation Criteria, Specifications, Schedule of Requirements

Section V Bid Forms

Section VI General Conditions of Contract (GCC)

Section VII Special Conditions of Contract (SCC)

Section VIII Contract Forms

Section IX Integrity Pact

Section X Declaration of Beneficial Ownership Information.

7.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding documents. Failure to furnish all the information required in the Bidding documents through EPADS v2.0 will be at the Bidder’s risk and may result in the rejection of its Bids.

8. Clarification of Bidding documents

8.1 A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency through EPADS v2.0**.**

8.2 The Procuring Agency will within two (02) working days after receiving the request for clarification, respond to any request for clarification through EPADS v2.0 provided that such request is received not later than three (03) days, prior to the deadline for the submission of Bids as prescribed in **ITB 22**

8.3 The Procuring Agency's response will be forwarded to all identified Prospective Bidders through EPADS v2.0, including a description of the inquiry,

but without identifying its source.

8.4 Should the Procuring Agency deem it necessary to amend the Bidding document as a result of a clarification, it shall do so following the procedure under **ITB 9.**

8.5 If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding document.

8.6 Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be uploaded on EPADS v2.0. Any modification to the Bidding documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an Addendum pursuant to ITB 9. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

9. Amendment of Bidding documents

9.1 Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or Pre-Bid meeting may modify the Bidding documents by issuing addenda through EPADS v2.0.

9.2 The Procuring Agency shall promptly publish the addendum through EPADS v2.0.

Any addendum issued including the notice of any extension of the deadline shall also be communicated through EPADS v2.0 to all the bidders who have already submitted their bids. Such bidders shall have the right to withdraw their already submitted bid and re-submit the revised bid prior to the original or extended bid submission deadline.

9.3 To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids through EPADS v2.0:

Provided that the Procuring Agency shall extend the deadline for submission of Bids, if such an addendum is issued within last three (03) days of the Bids submission deadline.

C. Preparation of Bids

10. Language of Bid

10.1 The Bid prepared by the bidder, as well as all correspondence and documents relating to the Bids exchanged by the Bidder and the Procuring Agency shall be written in the English language unless otherwise specified in the BDS**.** Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless otherwise specified in the **BDS**, in which case, for purposes of interpretation of the Bidder, the translation shall govern.

11. Documents and samples Constituting the Bid

11.1 The Bid prepared by the Bidder shall constitute the documents required in the **BDS**.

Details of sample(s) where applicable and requested in the BDS.

Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process;

Documentary evidence established in accordance with **ITB 03** that the Bidder has been authorized by the manufacturer to deliver the goods into Pakistan, where required and where the supplier is not the manufacturer of those goods;

Documentary evidence established in accordance with ITB 12 that the goods and related services to be supplied by the Bidder are eligible goods and services, and conform to the Bidding Documents;

Bid security or Bid Securing Declaration furnished in accordance with **ITB ---.**

12. Documents Establishing Eligibility of the Goods and Conformity to Bidding documents

12.1 To establish the conformity of the bidder to the Bidding document, the Bidder shall furnish as part of its Bids the documentary evidence that Goods

provided conform to the technical specifications and standards.

13. Documents Establishing Eligibility and Qualification of the Bidder

13.1 Pursuant to **ITB 10,** the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the Bidding process and/or its qualification to perform the contract if its Bid is accepted.

14. Form of Bid

14.1 The Bidder shall fill the Form of Bid furnished in the Bidding document. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.

15. Bid Prices

15.1 The Bid Prices quoted by the Bidder in the Form of Bid and in the Price Schedules shall conform to the requirements specified below or exclusively mentioned hereafter in the Bidding documents.

15.2 **All items in the Schedule of Requirement must be listed and priced separately in the Price Schedule(s). If a Price Schedule shows items listed but not priced and neither explicitly denied, their prices shall be construed to be included in the prices of other items.**

15.3 In the event that any item(s) in the Price Schedule are not quoted, and such omission is determined by the Procuring Agency not to materially affect the responsiveness of the Bid, the Procuring Agency may, for the sole purpose of bid evaluation and comparison, assign a price to the unquoted item(s) in accordance with the following methodology:

(a) The assigned price shall be the average of the prices quoted for the same item(s) by all substantially responsive bidders; or

(b) In cases where no comparable quotations are available, the Procuring Agency shall apply the corresponding item price from its duly approved cost estimate for evaluation purposes.

The prices so assigned shall be utilized exclusively for bid evaluation and comparison, and shall not, under any circumstances, be incorporated into or form part of the Contract Price.

15.4 The Bid price to be quoted in the Form of Bid in accordance with **ITB 13.1** shall be the total price of the Bid.

15.5 The Bidder shall indicate on the appropriate Price Schedule, the unit prices (where applicable) and total Bid price of the Goods it proposes to provide under the contract.

15.6 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A Bid submitted with an adjustable price will be treated as non-responsive and shall be rejected.

16. Bids Currencies

16.1 Prices shall be quoted in Pakistani Rupees unless otherwise specified in the BDS in accordance with Rule 42 (2) of the Public Procurement Rules, 2026.

17. Bids Validity Period

17.1 Such extensions may be more than one time but the total period of such extension shall not exceed the original bid validity period.

17.2 Bids shall remain valid for the period specified in the **BDS** after the Bid submission deadline prescribed by the Procuring Agency. A Bid valid for a shorter period shall be rejected by the Procuring Agency as non-responsive**.** The period of Bid validity will be determined from the complementary Bid securing instrument, i.e. the expiry period of Bid Security or Bids Securing Declaration as the case may be.

The procuring agency shall ordinarily be under an obligation to process and evaluate the bid and to issue letter of award within the stipulated bid validity period.

17.3 Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the Procuring Agency may request the Bidders' consent to an extension of the period of validity of their Bids through EPADS v2.0,. The Bid Security provided under **ITB 17** shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid, but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension.

18. Bid Security or Bid Securing Declaration

18.1 The Bidder shall furnish as part of its Bid, a Bid Security in accordance with Rule 36 of the Public Procurement Rules, 2026.

18.2 The original Bid Security shall be enclosed within the sealed envelope and to be submitted physically before closing time for submission of bids. Whereas, scanned copy of bid security shall be uploaded electronically through EPADS v2.0 before closing hours for submission of bids.

18.3 The Bidder who failed to submit the original Bids security before the submission deadline shall be disqualified straightaway.

18.4 The Bid Security or Bid Securing Declaration is required to protect the Procuring Agency against the risk of Bidder’s conduct which would warrant the security’s forfeiture, pursuant to **ITB 18.7.**

18.5 The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following:

a) a bank guarantee, a bank draft, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the Procuring Agency;

b) a cashier’s or certified cheque; or

c) another security if indicated in the BDS.

The Bid Security shall be valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder.

18.6 The Bid Security shall be payable promptly upon written demand by the Procuring Agency in case any of the conditions listed in **ITB 18.7** are invoked.

18.7 Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the procuring agency pursuant to **ITB 17.** The Procuring Agency shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security documents, after whichever of the following that occurs earliest:

a. the expiry of the Bid Security;

b. the entry into force of a procurement contract and the provision of a Performance Guarantee, for the performance of the contract if such a guarantee, is required by the Bid documents;

c. the rejection by the Procuring Agency of all Bids;

d. cancellation of procurement proceedings.

e. the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bid document stipulates that no such withdrawal is permitted.

18.8 The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract**,** or furnishing the Performance Guarantee.

18.9 The Bid Security may be forfeited or the Bid Securing Declaration executed:

a. if a Bidder:

b. withdraws its Bid during the period of Bid Validity as specified by the Procuring Agency, and referred by the Bidder on the Form of Bids except as provided for in **ITB 16.2**; or

c. does not accept the correction of errors**;** or

d. in the case of a successful Bidder, if the Bidder fails:

e. to sign the contract; or

f. to furnish Performance Guarantee**.**

19. Withdrawal, Substitution, and Modification of Bid

19.1 Before Bid submission deadline, any Bidder may withdraw, substitute, or modify its Bid after it has been submitted through EPADS v2.0.

20. Format and Signing of Bid

20.1 The Bidder shall prepare and submit Bids with due diligence after carefully reading all the terms and condition before bid submission deadline through EPADS v2.0.

D. Submission of Bids

21. Submission of Bids through EPADS v2.0 before bid submission deadline.

21.1 The Technical and Financial Bids, shall be submitted electronically through EPADS, before bid submission deadline. The bid submission option shall be automatically disabled once the deadline is over.

22. Deadline for Submission of Bids

22.1 Bids shall be received by the Procuring Agency through EPADS v2.0 before bid submission deadline.

22.2 The Procuring Agency may, under exceptional circumstances, extend the deadline for the submission of Bids, after recording reasons in writing and in an equal opportunity manner.

In such case, all rights and obligations of the Procuring Agency and the Bidders that were previously governed by the original deadline shall thereafter be subject to the revised deadline.

E. Opening and Evaluation of Bids

23. Opening of Bids

23.1 The respective Bid Evaluation Committee of the Procuring Agency shall open all Bids through the EPADS v2.0, on the date and time specified in the Bid Data Sheet (BDS).

23.2 The respective Bid Evaluation Committee **shall generate minutes through EPADS v2.0 containing brief details of bid opening process.** The record of the Bid opening shall include, as a minimum: the name of the Bidder, the Bid price if applicable, and the presence or absence of a Bid Security or Bid Securing Declaration.

23.3 The procuring agency shall live broadcast the opening of bids on national media or on their website or digital channels, if the volume of procurement exceeds five hundred million rupees in case of goods and services and one thousand million rupees in case of works.

23.4 In case the date of opening of bid has been declared as public holiday or the procuring agency fails to open bid due to any EPADS v2.0 related issues, the submission and opening of bids shall be shifted to the next working day at the same time.

23.5 In case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid and, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Bid respective Evaluation Committee.

23.6 No bid will be rejected at the time of bid openning except for bids whose original bid security has not been provided to the procuring agency before bid submission deadline.

24. Clarification of Bids

24.1 To assist in the examination, evaluation and comparison of Bids of the Bidders, the respective Bid Evaluation Committee may, ask any Bidder for a clarification of its Bid including breakdown of prices.

24.2 The request for clarification and the response shall be sought through EPADS v2.0 before **three days prior to the deadline for submission of bids.** No change in the prices or substance of the Bids shall be sought, offered, or permitted.

24.3 The alteration or modification in the bids which in any way affect the following parameters will be considered as a change in the substance of a Bid:

1. evaluation & qualification criteria;
2. required scope of work or specifications;
3. all securities requirements;
4. tax requirements;
5. terms and conditions of Bidding documents.
6. change in the ranking of the Bidder

24.4 From the time of bid(s) opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bids it should do so through **EPADS v2.0**.

25. Preliminary Examination of Bids

25.1 Prior to the detailed evaluation of Bids, the respective Bid Evaluation Committee will determine whether each Bid:

1. meets the eligibility criteria defined in **ITB 3**;

2. has been prepared as per the format and contents defined by the Procuring Agency in the Bidding documents;

3. is accompanied by the required securities; and

4. is substantially responsive to the requirements of the Bidding documents.

25.2 The respective Bid Evaluation Committee's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

25.3 A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding documents, without material deviation or reservation. A material deviation or reservation is one that: -

1. affects in any substantial way the scope, quality, or performance of the Goods;

2. limits in any substantial way, inconsistent with the Bidding documents, the Procuring Agency's rights or the Bidders obligations under the Contract; or

3. if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

25.4 If a Bid is not substantially responsive, it will be rejected by the respective Bid Evaluation Committee and may not subsequently be evaluated for complete technical responsiveness.

26. Examination of Terms and Conditions; Technical Evaluation

26.1 The respective Bid Evaluation Committee shall examine the Bids to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.

26.2 The respective Bid Evaluation Committee shall evaluate the technical aspects of the Bids submitted, to confirm that all requirements specified in Schedule of Requirements and Technical Specifications of the Bidding documents have been met without material deviation or reservation.

26.3 If after the examination of the terms and conditions and the technical evaluation, the respective Bid Evaluation Committee determines that the Bid is not substantially responsive in accordance with **ITB,** it shall reject the Bid.

27. Correction of Errors

27.1 Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -

1. if there is a discrepancy between unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the respective Evaluation Committee there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected;

2. if there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

3. where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

4. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

27.2 The amount stated in the Bid will be adjusted by the respective Bid Evaluation Committee in accordance with the above procedure for the correction of errors and, with the concurrence of the Bidder, shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bids Securing Declaration may be executed.

28. Conversion to Single Currency

28.1 For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency in accordance with Rule 42(2) of Public Procurement Rules,2026.

29. Evaluation of Bids

29.1 The Bids, quotations, or proposals shall be evaluated by the respective evaluation committees as per evaluation criteria prescribed in the Bidding Documents in accordance with Rule 11, 12 and 13 of the Public Procurement Rules, 2026.

29.2 While evaluating the bids, the procuring agency shall consider the following:

i. Bids will be evaluated on lump sum bid basis or items wise or Lot wise (contracts), as specified in the BDS; and the Bid Price;

ii. correction of arithmetic errors in accordance with ITB 27;

30. Domestic Preference

30.1 The respective Bid Evaluation Committee shall evaluate and compare bids, allow for preference to domestic bidders, while competing with the international bidders in accordance with the policies of the Federal Government.

The percentage of preference, to be accorded shall be clearly mentioned in the bidding documents under the bid evaluation criteria.

31. Determination of Successful Bid

31.1 **Selection technique will be adopted for determining the Successful Bid in accordance with the criteria referred in the BDS or prescribed in the separate section titled as Evaluation Criteria.**

31.2 **Least Cost Based Selection (LCBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite quality threshold (if any), and having lowest evaluated cost (or financial proposal) shall be considered Successful Bid.

31.3 **Quality and Cost Based Selection (QCBS)**
In such combination, there shall be some specific weightage of both the technical features and financial aspects of the proposal. The financial marks shall be awarded on the basis of inverse proportion calculations. The successful bid shall be declared, on the basis of combined evaluation.

31.4 **Quality Based Selection (QBS)**
After meeting the requirements of eligibility, qualification and substantial responsiveness the bid in compliance with all the mandatory (technical) specifications/requirements and attaining highest marks in the Technical Evaluation considering all other qualitative and/or quantitative parameters (or point rated criteria) for technical proposal(s) such as working methodology, implementation plan, resource allocation, additional functionalities, risk

management approach, knowledge transfer techniques, post implementation methodology etc. shall be treated as highest ranked bid. Later on, the financial proposal of highest ranked bidder shall be opened, however, in case of failure to proceed further with such a bidder, the procuring agency may resort to second highest bidder and so on.

31.5 The Procuring Agency may adopt the Quality & Cost Based Selection Technique due to the following two reasons:

1. Where the Procuring Agency knows about the main features, usage and output of the products; however not clear about the complete features, technical specifications and functionalities of the goods to be procured and requires the bidders to submit their proposals defining those features, specifications and functionalities; or

2. Where the Procuring Agency, in addition to the mandatory requirements and mandatory technical specifications, requires parameters specified in Evaluation Criteria to be evaluated while determining the quality of the goods.

31.6 In such cases, the Procuring Agency may allocate certain weightage to these factors as a part of Evaluation Criteria, and may determine the ranking of the bidders on the basis of combined evaluation in accordance with provisions of Rule 2(1)(xxviii) of the Public Procurement Rules, 2026.

32. Abnormally Low Financial Bids

32.1 An abnormally low bid is a bid that, in light of the Procuring Agency's cost estimate, market conditions, or other received bids, appears to be unrealistically low and may not be sustainable for successfull contract execution.

32.2 **Where the Bid price is considered to be abnormally low, the Procuring Agency shall perform price analysis either during determination of Successful Bids or as a part of the post-qualification process.**

32.3 The Procuring Agency may reject an Abnormally low financial bid in accordance with Rule 43 of the Public Procurement Rules, 2026.

32.4 In order to identify the Abnormally Low Bids (ALB) following approaches can be considered to minimize the scope of subjectivity:

1. Comparing the Bid price with the cost estimate;

2. Comparing the Bid price with the Bid(s) offered by other Bidders submitting substantially responsive Bids; and

3. Comparing the Bids price with prices paid in similar contracts in the recent past either government- or development partner-funded.

32.5 The respective Bid Evaluation Committee will determine to its satisfaction whether the Bidder that is selected as having submitted the successful bid is qualified to perform the contract satisfactorily.

32.6 The determination will take into account the Bidder's financial, technical, and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Procuring Agency deems necessary and appropriate. Factors not included in these Bidding documents shall not be used in the evaluation of the Bidders' qualifications.

32.7 Respective Bid Evaluation Committee may seek "Certificate for Independent Price Determination" from the Bidder and the results of reference checks may be used in determining an award of contract.

Explanation: The Certificate shall be furnished by the Bidder. The Bidder shall certify that the price is determined keeping in view of all the essential aspects such as raw material, its processing, value addition, optimization of resources due to economy of scale, transportation, insurance and margin of profit etc.

32.8 An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's Bid, in which event the respective Bid Evaluation Committee will proceed to the next ranked Bidder to make a similar determination of that Bidder's capabilities to perform satisfactorily.

F. Award of Contract

33. Criteria of Award

33.1 The Procuring Agency will award the Contract to the Bidder whose Bids has been determined to be substantially responsive to the Bidding documents and who has been declared as Successful Bidder.

34. Negotiations

34.1 In accordance with Rule 52A of Public Procurement Rules, 2026, without changing the cost and scope of work or services, the procuring agency may

negotiate with the successful bidder (with a view to streamline the work or task execution, at the time of contract finalization) on methodology, work plan, staffing and special conditions of the contract.

There shall be no limitation on the successful bidder offering voluntary reduction in bid price without affecting the quality or scope of the procurement.

35. Procuring Agency's Right to reject all bids

35.1 The Procuring Agency reserves the right to reject all bids or proposals at any time prior to the issuance of the Letter of Award, without incurring any liability, in accordance with Rule 45 of the Public Procurement Rules, 2026.

36. Cancellation of Procurement

36.1 The procuring agency reserves the right to cancel the procurement proceedings in accordance with Rule 46 of the Public Procurement Rules, 2026.

37. Procuring Agency’s Right to Vary Quantities at the Time of Award

37.1 The Procuring Agency reserves the right at the time of contract award to increase or decrease the **quantity of** Goods originally specified in these Bidding documents provided this does not exceed **by** 15%, without any change in unit price or other terms and conditions of the Bids and Bidding documents.

38. Notification of Award

38.1 Prior to the award of contract, the procuring agency shall announce and publish the result of bid evaluation on EPADS v2.0 in accordance with Rule 48 of the Public Procurement Rules, 2026.

The Bidder whose Bids has been accepted will be notified of the award by the Procuring Agency prior to expiration of the Bids/Bid Validity period. The Letter of Award will state the sum that the Procuring Agency will pay the successful Bidder in consideration for the delivery of Goods as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price).

38.2 The Letter of award will constitute the formation of the Contract, subject to the Bidder furnishing the Performance Guarantee and signing of the contract.

39. Signing of Contract

39.1 Promptly after issuance of Letter of award, Procuring Agency shall send the successful Bidder the draft Contract, incorporating all terms and conditions as agreed by the parties to the contract.

39.2 Immediately after the Redressal of grievance by the GRC (if any), and **after fulfillment of all conditions precedent** of the Contract Form, the successful Bidder and the Procuring Agency shall sign the Contract.

40. Corrupt & Fraudulent Practices

40.1 Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid engaging in any corrupt and fraudulent practices.

F. Grievance Redressal & Complaint Review Mechanism

41. Constitution of Grievance Redressal Committee

41.1 The Grievance Redressal Committee shall address the grievance, if any submitted by any party, including the bidder, in accordance with Rule 65 of the Public Procurement Rules, 2026 read with Redressal of Grievances Regulations, 2021.

In case if any party or the bidder is not satisfied with the decision of the GRC or if it fails to decide within ten days, the bidder or the party may file an appeal before the Appellate Committee of the Authority in accordance with Rule 65(7) of the Public Procurement Rules, 2026 to be read with Redressal of Grievances Regulations, 2021.

G. Mechanism of Blacklisting

42. Mechanism of Blacklisting

42.1 The Procuring Agency shall initiate blacklisting proceedings against any bidder, supplier, or contractor in accordance with the Rule 25 of the Public Procurement Rules, 2026.

42.2 The blacklisted/debarred bidder may file the review petition before the Authority in accordance with Rule 25 (6) of the Public Procurement Rules, 2026 to be read with Procedure of filing and disposal of Review Petitions Regulations, 2021.

43. Contract Management

43.1 For each procurement, the Procuring Agency shall designate a Contract Manager, who shall be duly responsible for the efficient management and administration of the contract in strict compliance with the provisions set forth under Rules 58, 59, and 60 of the Public Procurement Rules, 2026.

44. Inspection of goods and evaluation of services.

44.1 The Inspection Committee or the Firm shall have the right to conduct inspections of the goods in accordance with Rule 61 of the Public Procurement Rules, 2026.

45. Socio-economic development.

45.1 In accordance with Rule 63 of the Public Procurement Rules, 2026, preference may be granted to small and medium enterprises and marginalized groups in accordance with the policies notified by the Federal Government.

46. Environmental objectives

46.1 As per Rule 64 of the Public Procurement Rules, 2026, the procuring agency may seek to procure goods with a reduced environmental impact throughout their life cycle when compared to goods services with the same primary function that may otherwise be procured.

Bid Data Sheet

Bids Data Sheet (BDS)

The following specific data for the procurement of Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

BDS Clause Number
ITB Number
Amendments of, and Supplements to, Clauses in the Instruction to Bidders

A. Introduction

BDS Clause Number 1
ITB Number 1.1

Name of Procuring Agency: **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office)**

The subject of procurement is: **15/0003/P-Plan-25-26-CEN/1-2025 FOR THE PROCUREMENT OF PORTABLE ULTRASONIC RAIL FLAW DETECTION MACHINE ETC = 03 ITEMS**

Period for Provision of Goods:

Extension Period (if applicable):

Expected commencement date: **Sunday, February 28, 2027**

BDS Clause Number 2
ITB Number 2.1

Source of funds [Enter source of funds]

Financial year for the operations of the Procuring Agency: **2026-27**

Name and identification number of the Contract: **P182157**

Identification Number:

BDS Clause Number 3
ITB Clause Number 3.1

Eligible Bidder [Enter eligibility of bidder]

JV/Consortium or Association Allowed: **No**
Number of JV/Consortium Members: **Nil**
see section of eligibility criteria.

B. Bidding Documents

BDS Clause Number 4

ITB Clause Number 4.1

Eligible goods and related services [Enter requirements for eligible goods and related services, if any]

ITB Number 8.1

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Tuesday, November 10, 2026

ITB Number 8.2

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Tuesday, November 10, 2026

ITB Number 8.3

The Bidders may seek clarifications through **EPADS v2.0** : Clarification Date: Tuesday, November 10, 2026

ITB Number 8.5

Pre-bid meeting will be/will not be held [Tick the appropriate] If yes write down the time, and date of the pre-Bid meeting:
[The meeting should take place not later than one weeks before the deadline for Bid submission.]

C. Preparation of Bids

BDS Clause Number 5
ITB Number 10.1

The Language of all correspondences and documents related to the Bids shall be in: **English**

List of documents required along with the bid:

1. As per Eligibility and Evaluation Criteria

BDS Clause Number 6
ITB Number 11.1

Documents required / not required with bid submission [enter list of documents] Samples required / not required with the bid [Enter the names and number of samples]

Items/Lots and their related documents:

See section items and Lots

BDS Clause Number 7
ITB Number 12.1

Items / Lots Specifications:

see section of items specifications.

BDS Clause Number 8
ITB Number 15.6

The price shall be **Fixed**.

BDS Clause Number 9
ITB Number 16.1

Currency of the Bids shall be : **PKR**

BDS Clause Number 10
ITB Number 17.1

The Bids/Bid Validity period shall be: **120 Days**

BDS Clause Number 11
ITB Number 18.1

The amount of Bid Security shall be as defined in Bid Security Section for items and lots given in **BDS 6**

Instrument of Bid Security shall be in the Name of : **Chief Controller of Purchase, Pakistan Railways, Headquarters Office**

The Bid Security shall be in the form of: **Pay Order, Call at Deposit, Bank Guarantee, Demand Draft**

ITB Number 18.2

The address for submission of original bid security is [Insert the address for bid security submission]

D. Submission of Bids

BDS Clause Number 12
ITB Number 20.1

Bid shall be submitted online on EPADS v2.0 whereas hard copy of the bid security should be submitted to the following;

PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE before bid submission deadline.

Bids that are not submitted on EPADS v2.0 shall be disqualified.

The deadline for Bids submission is: **Friday, November 13, 2026 10:30 AM**

Day *:* ***Friday***

Date: ***Friday, November 13, 2026***

Time *:* ***11:00 AM***

E. Opening and Evaluation of Bids

BDS Clause Number 13
ITB Number 23.1

The Bids opening shall take place on **EPADS v2.0**.

Day *:* ***Friday***

Date: ***Friday, November 13, 2026***

Time *:* ***11:00 AM***

ITB Number 29.2

The procuring agency shall consider the following:
lump sum bid basis; or
items wise; or
Lot wise (contracts),

ITB Number 30.1

BDS Clause Number 14
ITB Number 31.1

Domestic Preference [applicable / not applicable]

ITB Number 31.2

Selection technique adopted will be:
The Procuring Agency shall use any of the following evaluation techniques for determination of successful bid.

Least Cost Base Selection (LCBS)
Quality and Cost Based Selection (QCBS)
Quality Based Selection (QBS)
[Insert the Evaluation Technique]

Selection technique adopted will be: **Least Cost Based Selection (LCBS)**
see Evaluation Criteria

F. Review of Procurement Decisions

BDS Clause Number 15
ITB Number 41.1

Grievence against this procurement shall be submitted online on EPADS v2.0.

Arbitrator shall be appointed by mutual consent of the both parties.

ITB Number 42.2

The Address of PPRA Grievance Redressal Appellate Committee to submit a copy of grievance:

Grievance Redressal Appellate Committee,
Public Procurement Regulatory Authority
1st Floor, G-5/2, Islamabad, Pakistan
Tel: +92-51-9202254

Eligibility Criteria

All Active Taxpayers shall be eligible to participate in the procurement process, unless expressly excluded or otherwise restricted under the Eligibility Criteria specified by the Procuring Agency.

Required Registration
NADRA CITIZENSHIP (CNIC/NICOP)
FBR (NTN)
FBR (GSTN)

Evaluation Criteria

Eligibile bidder(s) with substantially responsive bid(s) offering **Least Cost Based Selection (LCBS)** shall be consider for the award of contract(s).

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %
100

Technical Marks	200
Passing Marks	**200**
Technical Evaluation Criteria	
Has the bidder confirmed Railway specification/ requirements/ Descriptions as stipulated in this tender? (Qualitative)(Doc Required)	10
Is the bid validity according to the tender clause 4 of general terms and conditions i.e. 120 days from the date of opening of tender? (i.e. from the date of opening of technical proposal)? (Qualitative)(Doc Required)	10
Has the bidder confirmed delivery period/schedule and delivery terms as stipulated in this tender? (Qualitative)(Doc Required)	10
Has the bidder confirmed single place of delivery as stipulated in this tender? (Qualitative)(Doc Required)	10
Is the offer un-conditional? (Qualitative)(Doc Required)	10

Has the bidder indicated its sales Tax Registration number and National Tax Number? (Qualitative)(Doc Required)	10
Is the bidder on active tax payer list (ATL) of FBR? (Qualitative)(Doc Required)	10
Has the bidder signed and stamped the forms of tender? (Qualitative)(Doc Required)	10
Has the bidder quoted for full tendered quantity? (Qualitative)(Doc Required)	10
Has the bidder attached the warranty certificate (in original) from their manufacturer (with technical proposal) against this tender? (Qualitative)(Doc Required)	10
Has the bidder submitted brand name, manufacturer name and country of origin? (Qualitative)(Doc Required)	10
Has the bidder deposited bid money? (Qualitative)(Doc Required)	10
Only Manufacturers or their duly authorized agents / representatives are eligible to quote against this tender. In case of bid submission by trader/vendor /agent or representative firm, the authority letter in favour of such firm from the Manufacturer must be submitted alongwith the bid failing which the offer will be liable to be rejected. The authority letter must be on letter head of Manufacturer containing address and contract details alongwith name and designation of the issuing authority and issued as per the format attached as Annex-I. It will be responsibility of the bidder to make it sure that either Manufacturer participate in the tender or the manufacturer must provide manufacturer‘s Authority letter to only one bidder. In case of multiple bidders having authority letter from same manufacturer, offers of such bidders shall be rejected. (Qualitative)(Doc Required)	10
The bidder must submit the technical literature of the product against all items offered by the bidder failing which the offer will liable to be rejected. (Qualitative)(Doc Required)	10
Bidders are required to check/witness the stock sample and its operational / fitment requirements against all items. (Qualitative)(Doc Required)	10
Offer of the firm which, when awarded the contract for same item previously, failed to supply the correct material within due time is liable to rejection. (Qualitative)(Doc Required)	10

Following warranty clause will be applicable on this procurement and bidder must quote their bid accordingly: The seller warrants that the stores will be in accordance with the particulars mentioned in the purchase order; The seller warrants that the stores will be free from defects in material and workmanship; The seller‘s obligations under the warranties expressed in sub-paragraphs i and ii above shall be limited to replacement DDP General Stores Mughalpura or Reti line Karachi (as the case may be) free of cost stores which at the time of receipt by the consignee or under normal use and maintenance prove defective in material/workmanship or fail to comply with the required performance in the normal course of service The warranty shall be valid for a period of from 24 months from the date of receipt of material or 18 months from the placement in service of complete unit whichever is earlier. The warranty shall be in addition to the normal inspection. The warranty shall be covered against the 5% security deposit which shall be kept valid by the firm till expiry of the warranty period and retained by the Purchaser. (Qualitative)(Doc Required)	10
1 (a) Pre-Shipment Third-Party Inspection A third-party inspection of all materials to be procured by Pakistan Railways on DDP basis shall be inspected after delivery at DCP/I Mughalpura, Lahore. Such inspection shall be carried out by a independent reputable and duly approved inspection agency nominated by Pakistan Railways. The scope of inspection shall include, but not be limited to: • Physical conditions compliance with specifications, functional performance and completeness of accessories and documentation. • Dimensional accuracy checks • Assessment of workmanship • Testing calibration (where applicable) • Compliance with applicable quality standards The inspecting agency shall issue a detailed inspection certificate report confirming that the machines conform to all contractual obligations. Submission of such certificate shall be mandatory for acceptance of goods and release of payment. Any found substandard or deviating from specifications shall be rejected or required to be rectified at the sole cost and risk of the supplier. Supplier shall ensure testing commissioning of machines and training of staff. All inspection-related charges shall be borne by the supplier. (Qualitative)(Doc Required)	10
1 (b.) Liability During Warranty Period In the event that any defect or flaw in the material or machines arises during the warranty period, the third-party inspection agency shall share responsibility and shall be liable to the extent provided under the contract. This may include termination of the contract and/or imposition of penalties, including forfeiture of performance security/warranty, as applicable. (Qualitative)(Doc Required)	10

For PORTABLE ULTRASONIC RAIL FLAW DETECTOR MACHINE FOR THERMIT WELDED JOINTS (SPOT INSPECTION): 1. The manufacturer shall depute a qualified Service Engineer to Pakistan for installation, commissioning, and training for 05 working days. All expenses shall be borne by the supplier. 2. The Service Engineer shall be fully conversant with: Electronic circuits Operating system Calibration & maintenance. Training shall be conducted in English, using manuals, drawings, multimedia, and field demonstration. (Qualitative)(Doc Required)	10

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Items/Lots

Items Without Lots :

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	Manufacturer / Dealer Authorization	Warranty
Stock Code: 601-Spl, Description: Portable Ultrasonic Rail Flaw Detection Machine for Thermit Welded Joints (Sport Inspection)	Ultrasonic examination equipment	**Address:** District Controller of Purchase / Inspection, Pakistan Railways, Mughalpura, Lahore OR District Controller of Purchase / Inspection, Pakistan Railways, Reti Line, Karachi **Schedule:** 60 Days **Quantity:** 10/Each	10/Each	300000 PKR	Manufacturer Authorization form	2 Years

Item	UNSPSC	Delivery Schedule	Quantity	Bid Security	Manufacturer / Dealer Authorization	Warranty
Stock Code: 601-21440, Pre-Heating Air Compressor	Air compressors	**Address:** District Controller of Purchase / Inspection, Pakistan Railways, Mughalpura, Lahore OR District Controller of Purchase / Inspection, Pakistan Railways, Reti Line, Karachi **Schedule:** 60 Days **Quantity:** 6/Each	6/Each	156000 PKR	Manufacturer Authorization form	2 Years
Stock Code: 601-Spl, Description: Digital Non-Contact Thermometer (Infrared Pyrometer) for Pre-Heating of Rail during Thermit welding	Infrared thermometer	**Address:** District Controller of Purchase / Inspection, Pakistan Railways, Mughalpura, Lahore OR District Controller of Purchase / Inspection, Pakistan Railways, Reti Line, Karachi **Schedule:** 60 Days **Quantity:** 10/Each	10/Each	5000 PKR	Manufacturer Authorization form	2 Years

Related Services of Goods:

Yes

Item	UNSPSC	Related Services
Stock Code: 601-Spl, Description: Portable Ultrasonic Rail Flaw Detection Machine for Thermit Welded Joints (Sport Inspection)	Ultrasonic examination equipment	The manufacturer shall depute a qualified Service Engineer to Pakistan for installation, commissioning, and training for 05 working days. All expenses shall be borne by the supplier. Further Details as per specification attached
Stock Code: 601-Spl, Description: Digital Non-Contact Thermometer (Infrared Pyrometer) for Pre- Heating of Rail during Thermit welding	Infrared thermometer	The supplier shall provide basic operational training and guidance for correct emissivity setting for rail steel during thermite welding. Further Details as per specification attached.

Items/Lot Specification

Items Without Lots :

Item: Stock Code: 601-Spl, Description: Portable Ultrasonic Rail Flaw Detection Machine for Thermit Welded Joints (Sport Inspection)

UNSPSC: Ultrasonic examination equipment

Specifications / Requirementsss:

TECHNICAL SPECIFICATIONS PORTABLE ULTRASONIC RAIL FLAW DETECTOR MACHINE FOR THERMIT WELDED JOINTS (SPOT INSPECTION) 1. General 1.1: The Portable Ultrasonic Rail Flaw Detector (USFD) Machine shall be specifically designed for complete inspection of thermit welded rail joints on Pakistan Railways network, capable of detecting internal flaws across the full rail section, i.e. rail head, web, and foot. 1.2: The USFD machine shall be capable of storing inspection data and generating inspection results through an external printer. 1.3: The USFD machine shall be capable of wireless data transfer (Wi-Fi) to Laptop / Computer for downloading, analysis, reporting, and record keeping. 1.4: The machine shall utilize the latest digital pulse-echo ultrasonic testing technique suitable for detection of defects in thermit welded rail joints. 2. Main Features 2.1: Search Units (Probes) – Standard Specification The machine shall be supplied with probes suitable for complete joint coverage: a) 0° Probe Frequency: 4 – 5 MHz Quantity: 01 No. Application: Detection of horizontal fissures and internal defects in rail head of thermit welded joint. b) 45° Angle Probe Frequency: 2.0 – 2.25 MHz Quantity: 01 No. Application: Detection of transverse defects in rail head, web, and foot of welded joint. c) 70° Angle Probe Frequency: 2.0 – 2.25 MHz Quantity: 01 No. Application: Detection of transverse and vertical defects in welded joint. d) Any additional probe, scanning arrangement, or feature deemed necessary by the manufacturer to ensure no portion of the welded joint remains uninspected shall be included. 2.2: Gain Control Gain range shall be 0 to 80 dB, adjustable. 2.3: B-Scan Range Selectable B-scan scanning range from 250 mm to 1000 mm. 2.4: Display High-resolution bright color LCD display, size not less than 6 inches and up to 9 inches. Display shall be sunlight readable for outdoor railway field conditions. 2.5: Data Storage Internal storage capacity shall be sufficient to store minimum 5,000 images / inspection records. 2.6: Display Modes Simultaneous display of A-scan and B-scan modes. 2.7: Alarm Function Visual and/or audible alarm shall be available for flaw detection. 2.8: Measurement Function Built-in caliper / measurement function to measure detected flaw size directly on screen in millimeters (mm). 2.9: Probes Replacement Probes shall be easily replaceable by the user at site without special tools. 3. Battery 3.1: Remaining battery charge level indication shall be available on the display. 3.2: Rechargeable battery shall provide minimum 6 hours continuous

operation. 3.3: Battery charger shall be suitable for AC input 110 – 220 V, and full charging time shall be not more than 4–5 hours, with charging indicator. 4. Weight & Dimensions 4.1: Total weight of the machine including battery shall be less than 4 kg for easy handling. 4.2: External dimensions shall not exceed: Width: 300 mm Height: 200 mm Depth: 120 mm 5. Type of Rails The machine shall be suitable for inspection of all rail sections used on Pakistan Railways, including but not limited to: 60 kg, 54 EI & 100 RE 6. Spare Parts (To Be Supplied With Each Machine) The following spare parts shall be supplied with each USFD machine. Prices shall be quoted separately: a) Probes – 02 Sets b) Rechargeable Batteries – 02 Nos. c) Probe Cables (2m length) – 02 Nos. d) Conversion Cable (for Sono-ruler) – 02 Nos. e) Any other essential spare parts required for reliable operation. 7. Technical Literature 7.1: One copy of illustrated technical catalogue showing machine features, probes, accessories, and spare parts shall be submitted with the technical bid in English language. 8. Standard Accessories 8.1: The quoted price shall include all standard accessories required for proper operation. 8.2: One tool kit set shall be provided with each machine. 8.3: Machine shall be supplied with a safe, waterproof soft carrying case. 9. Reference The bidder shall submit at least two references from other railway track maintaining organizations, indicating capability and experience in rail ultrasonic testing equipment. 10. Warranty Warranty for trouble-free service shall be: 18 months from date of commissioning, or 24 months from date of receipt at Karachi Port / DCPI/KC, whichever is earlier. Defective parts or machine shall be repaired or replaced, and warranty shall restart from the date of replacement/repair. 11. Atmospheric Conditions 11.1: The machine shall operate reliably under the following conditions: Temperature: – 10°C to +55°C Relative Humidity: up to 100% Dusty railway environment Equipment shall be suitably tropicalized for Pakistan Railways conditions. 11.2: During operation, machine temperature shall not reach a level that may cause damage to insulation or adjacent components. The machine shall be safe in all operating conditions. 12. Training & Service Engineer 12.1: The manufacturer shall depute a qualified Service Engineer to Pakistan for installation, commissioning, and t

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Item: Stock Code: 601-21440, Pre-Heating Air Compressor

UNSPSC: Air compressors

Specifications / Requirementsss:

(Revision-1) REVISED TECHNICAL SPECIFICATION FOR RAIL PREHEATING AIR COMPRESSOR 1. Scope This schedule of requirements and specifications relates to the supply of Rail Preheating Air Compressor. This specification supersedes technical specification issued/ approval so far pertaining to rail preheating air compressor. 2. Operating Requirements The Portable Rail preheating unit should be fitted on trolley and designed for preheating of rail ends in advance of alumina thermit welding of the rails. The machine should work on a compressed air and petrol mixture and should work on two joints simultaneously: Main features of petrol air compressor unit are as follows:- i. Petrol Engine driven, air cooled, 4-stroke 5 to 8hp with both manual starters/self-starting options. ii. Belt driven air-blower, supplying compressed air at a pressure of 0.2-1 bar approximately. iii. Petrol tank with a capacity of 20-30 liters, slightly pressurized by air feed from the air blower. Petrol tank should have two outlets allowing it to work on two

joints at the same time through two preheating burners and suitable for all rail sections. iv. Petrol tank should have gauge to show the fuel quantity. v. The weight of complete unit should not be more than 100 Kg. vi. Piping assembly for distributor of the fuel mixture should made of:- ❖ Air pressure control valve ❖ Pressure gauge ❖ Two cocks to control the petrol supply ❖ Two cocks to close/off the petrol distribution circuit ❖ One cock to isolate one burner when only one joint is to be heated ❖ Two hoses complete with connections each 10 to 12 meter long, each with non-return safety valve and preheating burner should be suitable for all rail sections. ❖ Barrow-type trolley with retractable handles, mounted on two wheels, which carries the complete preheating unit. vii. Preheating process duration should be within 15 minutes and the average consumption of petrol should not be more than 1.50 liter for one weld. viii. An acceleration lever should be provided in order to match the engine output with the requirements of the unit. ix. Detail operating, Maintenance, service and major assembly / component overhauling manual shall be prepared in English/Urdu language and four copies of these shall be supplied with each machine. x. The supplier will provide necessary tools and equipment for maintenance of preheating set. xi. The supplier / manufacturer will be bound for warranty of 02 years from date of commissioning. xii. The equipment must be free from any design defect, material defects and workmanship defect etc. 3. Climatic condition Climatic conditions in Pakistan in which the machine is required to perform are given below: - i. Maximum temperature recorded (in shade) 127.1°F ii. Average of maximum readings 119.1°F iii. Minimum recorded 0.20°F iv. Average of minimum readings 23.7°F Relative Humidity i. Maximum recorded 100% ii. Average of maximum readings 81% iii. Minimum recorded 2% iv. Average of minimum readings 21% 5. Tools Each machine shall be supplied with a complete set of tools kit for repair and maintenance. 6. SPAREPARTS Following spares should be separately quoted for each machine. If any spare parts are not required for any offered machine, the same should not be quoted. i. Connecting Rod with piston and piston rings 4 sets with each machine ii. Spark plugs 5 Nos. with each machine iii. Gas kit muffler 5 Nos. with each machine iv. Fuel filter 5 Nos. with each machine v. Air filter 5 Nos. with each machine vi. Carburator 2 Nos. with each machine vii. Regulating cocks 2 Nos. with each machine viii. Piping set 2 Nos. with each machine

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Item: Stock Code: 601-Spl, Description: Digital Non-Contact Thermometer (Infrared Pyrometer) for Pre- Heating of Rail during Thermit welding

UNSPSC: Infrared thermometer

Specifications / Requirementsss:

SPECIFICATIONS OF DIGITAL NON CONTACT THERMOMETER HAVING RANGE MEASUREMENT UP TO 1500 °C DURING PRE-HEATING OF RAIL FOR THERMIT WELDING OF RAILS JOINTS. The Digital Thermometer (Temperature Measurement System) should be capable to measure the temperature of rail during the pre-heating of rail ends (at head, web and foot) up-to 1500 °C suitable for use in industrial applications such as Pakistan Railways. TECHNICAL SPECIFICATIONS DIGITAL NON-CONTACT THERMOMETER (INFRARED

PYROMETER) FOR PRE-HEATING OF RAIL DURING THERMIT WELDING 1. General 1.1: The Digital Non-Contact Thermometer (Infrared Pyrometer) shall be suitable for accurate, non-contact temperature measurement of rail surface during pre-heating for thermit welding of rail joints on Pakistan Railways network. 1.2: The instrument shall be capable of measuring high temperatures up to 1500°C, enabling safe and reliable temperature monitoring without physical contact. 1.3: The thermometer shall be hand-held, rugged, portable, and suitable for use in outdoor railway field conditions. 1.4: Measurement shall be based on infrared radiation (non-contact method) with fast response time. 2. Measurement Range & Accuracy 2.1 Temperature Range: • Minimum: 0°C or better • Maximum: 1500°C 2.2 Accuracy: • ±1% of reading or ±2°C (whichever is greater) up to 1000°C • ±1.5% of reading above 1000°C 2.3 Resolution: • 1°C (or better) 2.4 Repeatability: • ±0.5% of reading 3. Optical & Measurement Characteristics 3.1 Spectral Response: • Suitable for high-temperature metal surfaces (short wavelength preferred, e.g. 0.9–1.1 µm) 3.2 Distance-to-Spot Ratio (D:S): • Minimum 30:1 (higher preferred for safe stand-off distance) 3.3 Response Time: • ≤ 100 ms 3.4 Emissivity Adjustment: • Adjustable emissivity range 0.10 to 1.00 • Preset emissivity suitable for steel rails. 4. Display & Controls 4.1 Display Type: • High-contrast back-lit LCD / OLED display. 4.2 Display shall show: • Measured temperature (°C) • Emissivity value • Battery status • Max/Min temperature (selectable) 4.3 Laser Targeting: • Dual or single laser pointer for accurate aiming (laser to be switchable ON/OFF). 5. Data & Functions 5.1 Data Hold Function for reading stabilization. 5.2 Maximum / Minimum / Average temperature functions. 5.3 High / Low temperature alarm with visual and/or audible indication. 5.4 Auto power-off to conserve battery. 6. Power Supply Battery operated (rechargeable Li-ion preferred) with Minimum operating time: 8 hours continuous use and Low battery indication on display. Charger (if rechargeable) shall be suitable for AC 110–220 V, 50/60 Hz. 7. Environmental & Mechanical Requirements 7.1 Operating Temperature: • -5°C to +55°C (or better) 7.2 Storage Temperature: • –05°C to +55°C 7.3 Ingress Protection: • Minimum IP54 for dust and splash resistance. 7.4 Shock & Vibration: • Suitable for rough handling in railway field conditions. 7.5 Weight: • Not more than 500 grams (including battery). 8. Accessories 8.1 Protective carrying case. 8.2 User manual in English. 8.3 Calibration certificate traceable to national / international standards. 8.4 Charger and battery (if applicable). 9. Calibration & Compliance 9.1 Instrument shall be factory calibrated and supplied with a valid calibration certificate. 9.2 The thermometer shall conform to relevant standards such as: • ASTM E1256 (Infrared Thermometers) • IEC 61326 (EMC compliance) • CE / equivalent international certification 10. Warranty 10.1 Minimum 12 months warranty against manufacturing defects. 10.2 Warranty shall cover repair or replacement of defective parts during the warranty period. 11. Training & Support (Optional) 11.1 Supplier shall provide basic operational training and guidance for correct emissivity setting for rail steel during thermit welding. 12. Makers Test Certificate Copies of the Makers Test Certificate for complete equipment guaranteeing the performance of the Digital Non Contact Thermometer should be supplied along with the delivery of the each Digital Non Contact Thermometer. 13. Inspection of Delivered Digital Non Contact Thermometer After delivery of Digital Non Contact Thermometer, the inspection of all the Digital Non Contact Thermometers and spare parts shall be carried out in Pakistan by the purchaser or his authorized representative. In case, any Digital Non Contact Thermometer found not compliant with the required specifications, the Supplier shall be liable to replace the same in addition to fulfillment of other terms and conditions of the Purchase Order.

Price Schedule

For Individual Items

#	Item Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

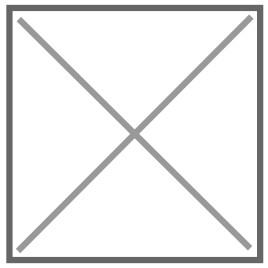
For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

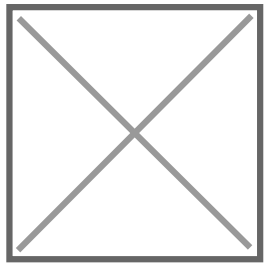
Items Media

Items Without Lotswww:

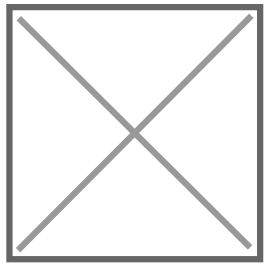
Item: Stock Code: 601-Spl, Description: Portable Ultrasonic Rail Flaw Detection Machine for Thermit Welded Joints (Sport Inspection)



Item: Stock Code: 601-21440, Pre-Heating Air Compressor



Item: Stock Code: 601-Spl, Description: Digital Non-Contact Thermometer (Infrared Pyrometer) for Pre- Heating of Rail during Thermit welding



PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

General Conditions of Contract

A. General

1. Definitions

1.1 Unless the context otherwise requires, the following terms whenever used in this Contract shall have the same meaning and shall be interpreted as indicated

a. “Applicable Law” means the laws and any other instruments having the force of law in the Government’s Country, or in such other country as may be specified in the Special Conditions of the Contract (SC), as they may be issued and in force from time to time;

b. The “Arbitrator” is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract GCC Clause 35 hereunder.

c. “Authority” means Public Procurement Regulatory Authority.

d. The “Commencement Date” is the date when the Supplier shall commence execution of the contract as specified in the SCC.

e. “Completion date” means the date of completion of the Contract by the Bidder as certified by the Procuring Agency.

f. “Procuring Agency” means:-

a. any Ministry, Division, Department or any Office of the Government;

b. any authority, corporation, body or organization established by or under a Law or which is owned or controlled by the Government;.

g. “The Contract” means an agreement enforceable by law;

h. “The Contract Price” means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations;

i. “Ancillary Services” means those services ancillary to the provision of Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Bidder covered under the Contract;

j. “GCC” means the General Conditions of Contract contained in this section;

k. “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented;

l. **“**Day” means calendar day unless indicated otherwise.

m. “Defective Goods” are those goods which are below standards, requirements or specifications stated by the Contract.

n. “Delivery” means the transfer of the goods from the supplier equipment, machinery, and /or other materials which the Supplier is required to supply to the Procuring Agency under Contract.

o. “Effective Date” means the date on which this Contract comes into force and effect.

p. “Force Majeure” means an unforeseeable event which is beyond reasonable control of either Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances. and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

q. The Bidder” means the individual or corporate body whose Bids to provide the Goods has been accepted by the Procuring Agency;

r. “The Project Site,” where applicable, means the place or places named in Bids Data Sheet and technical Specifications;

s. “Government” means the Government of Pakistan;

t. “Subcontractor” means any entity to which the Bidder subcontracts any part of the Goods.

u. The “Services” means the work to be performed by the Bidder pursuant to this Contract and as prescribed in the Specifications and Schedule of Activities included in the Bidder’s Bids;

v. “Party” means the Procuring Agency or the Bidder, as the case may be, and “Parties” means both of them;

w. “Foreign Currency” means any currency other than the currency of the country of the Procuring Agency;

x. “Completion Date” means the date of completion of the contract by the Bidder as certified by the Procuring Agency;

y. “In Writing” means communicated in written form with proof of receipt;

z. “Local Currency” means the currency of Pakistan;

a. “Origin” means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.

b. “Specification” means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved by the Procuring Agency.

c. “Procuring Agency” means: -
any Ministry, Division, Department or any Office of the Federal Government;
any authority, corporation, body or organization established by or under a Federal Law or which is owned or controlled by the Federal Government;

2. Application and Interpretation

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

2.2 In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.

3. Applicable Law

3.1 The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.

4. Governing Language

4.1 The Contract as well as all correspondence and documents relating to the Contract exchanged between the Bidder and the Procuring Agency, shall be written in the **English language** unless otherwise stated in the **SCC**. Supporting documents and printed literature that are part of the Contract may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5. Notices

5.1 Any notice, request, or consent made pursuant to this Contract shall be in writing and shall be deemed to have been made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the **SCC**.

6. Standard

6.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, the American Standards (such as ACI, IEEE, ASME, etc.) or the Pakistani standards such as PSQCA Such standards shall be the latest issued by the concerned institution.

7. Delivery/Location

7.1 The Goods shall be delivered to such locations as the Procuring Agency may approve and as specified in SCC.

8. Authorized Representatives / Authority of Member in charge

8.1 Any action required or permitted to be taken, and any document required or permitted to be executed, under this Contract by the Procuring Agency or the Bidder may be taken or executed by the officials specified in the **SCC**.

B. Commencement, Completion, Modification, and Termination of Contract

8. Effectiveness of Contract

8.1 This Contract shall come into effect on the date the Contract is signed by both parties and such other later date as may be stated in the SCC.

9. Commencement of the Contract

9.1 The Bidder shall confirm availability of Key Experts and begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.

10. Program

10.1 Before commencement of the Contract, the Bidder shall submit to the Procuring Agency for approval a Program showing the general methods, arrangements, order and timing for all activities. The Services shall be carried out in accordance with the approved Program as updated.

11. Starting Date/Expiration Date

11.1 The Bidder shall start carrying out the Services Five (05) days after the date the Contract becomes effective, or at such other date as may be specified in the **SCC.**

11.2 Unless terminated earlier pursuant to Clause **GCC 16** hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SCC.

12. Entire Agreement

12.1 This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any statement, representation, promise or agreement not set forth herein.

13. Modification

13.1 Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any Bids for modification or variation made by the other Party.

13.2 In cases of any modifications or variations, the prior written consent of the Procuring Agency is required.

14. Force Majeure

14.1 Definition

For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party and which makes a Party’s performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances.

14.2 No Breach of Contract

The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract in so far as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.

14.3 Extension of Time

Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure. However, such period shall not exceed sixty (60) days.

14.4 Payments

During the period of their inability to perform the Services as a result of an event of Force Majeure, the Bidder shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

15. Termination

15.1 By the Procuring Agency

The Procuring Agency may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (e) of this Clause. In such an occurrence the Procuring Agency shall give at least thirty (30) calendar days' written notice of termination to the Bidder in case of the events referred to in (a) through (d); at least sixty (60) calendar days' written notice in case of the event referred to in (e);

a. If the Bidder fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension;

b. If the Bidder becomes (or, if the Bidder consists of more than one entity, if any of its members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary;

c. If the Bidder fails to comply with any final decision reached as a result of arbitration proceedings;

d. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days;

e. If the Procuring Agency, in its sole discretion and for any reason whatsoever, decides to terminate this Contract;

15.2 By the Bidder

The Bidder may terminate this Contract, by not less than thirty (30) calendar days' written notice to the Procuring Agency, in case of the occurrence of any of the events specified in paragraphs (a) through (d) of this Clause.

a. If the Procuring Agency fails to pay any money due to the Bidder pursuant to this Contract and not subject to dispute within forty-five (45) calendar days after receiving written notice from the Bidder that such payment is overdue.

b. If, as the result of Force Majeure, the Bidder is unable to perform a material portion of the Services for a period of not less than sixty (60) calendar days.

c. If the Procuring Agency fails to comply with any final decision reached as a result of arbitration.

d. If the Procuring Agency is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Bidder may have subsequently approved in writing) following the receipt by the Procuring Agency of the Bidder's notice specifying such breach.

C. Obligations of the Bidder

16. General

16.1 Standard of Performance

1. The Bidder shall deliver the product and carry out the Services with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Bidder shall always act, in respect of any matter relating to this Contract or to the Services, as a faithful adviser to the Procuring Agency, and shall at all times support and safeguard the Procuring Agency's legitimate interests in any dealings with the third parties.

16.2 Law Applicable to Goods

The Bidder shall deliver the goods in accordance with the Contract and in accordance with the Law of Pakistan and shall take all practicable steps to ensure that any of its Experts and Sub-Bidders, comply with the Applicable Law.

17. Conflict of Interests

17.1 Bidder Not to Benefit from Commissions and Discounts.

The remuneration of the Bidder shall constitute the Bidder's sole remuneration in connection with this Contract or the Services, and the Bidder shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Bidder shall use their best efforts to ensure that the Personnel, any Subcontractors, and agents of either of them similarly shall not receive any such additional remuneration.

17.2 Bidder and Affiliates Not to be Otherwise Interested in Project

The Bidder agree that, during the term of this Contract and after its termination, the Bidder and its affiliates, as well as any Subcontractor and any of its affiliates, shall be disqualified from providing Goods for any project resulting from or closely related to the Services.

17.3 Prohibition of Conflicting Activities

Neither the Bidder nor its Subcontractors nor the Personnel shall engage, either directly or indirectly, in any of the following activities:

a. during the term of this Contract, any business or professional activities in the Government's country which would conflict with the activities assigned to them under this Contract;

b. during the term of this Contract, neither the Bidder nor their Subcontractors shall hire public employees in active duty or on any type of leave, to perform any activity under this Contract;

18. Confidentiality

18.1 Except with the prior written consent of the Procuring Agency, the Bidder and the Experts shall not at any time communicate to any person or entity any confidential information acquired in the course of the contract.

19. Insurance to be Taken Out by the Bidder

19.1 The Bidder(a) shall take out and maintain, and shall cause any Subcontractors to take out and maintain, at its (or the Subcontractors', as the case may be) own cost but on terms and conditions approved by the Procuring Agency, insurance against the risks, loss or damage, and for the coverage, as shall be specified in the SCC; and (b) at the Procuring Agency's request, shall provide evidence to the Procuring Agency showing

that such insurance has been taken out and maintained and that the current premiums have been paid.

20. Bidder's Actions Requiring Procuring Agency's Prior Approval

20.1 The Bidder shall obtain the Procuring Agency's prior approval in writing before taking any of the following actions:

(a) appointing such members of the Personnel not provided by the Bidder;

(b) changing the Program of activities; and

(c) any other action that may be specified in the SCC.

21. Reporting Obligations

21.1 The Bidder shall submit to the Procuring Agency the reports and documents in the numbers, and within the periods as prescribed by the Procuring Agency.

22. Liquidated Damages

22.1 If the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in **SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in **SCC**. Once the said maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to **GCC Clause 16.**

22.2 Correction for Over-payment

If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Agency shall correct any overpayment of liquidated damages by the Bidder by adjusting the next payment certificate. The Bidder shall be paid interest on the overpayment, calculated from the date of payment to the date of repayment, at the rates specified in SCC.

22.3 Lack of performance penalty

If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, a penalty for Lack of performance will be paid by the Bidder. The amount to be paid will be calculated as a percentage of the cost of having the Defect corrected, assessed as specified in the SCC.

23. Performance Guarantee

23.1 The Performance Security (or Guarantee) shall be provided to the Procuring Agency no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form acceptable to the Procuring Agency as specified in SCC, and denominated in the types and proportions of the currencies in which the Contract Price is payable as specified in the SCC.

23.2 Within Seven (07) days from the issuance of acceptance letter from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in shape of ------- at the discretion of the PA in the amount **specified in SCC.** In case the amount of Bids security is equal or greater than

23.3 The proceeds of the Performance Guarantee shall be payable to the Procuring agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

23.4 The Performance Guarantee shall be denominated in the currency of the Contract, or in a freely convertible currency acceptable to the Procuring agency and shall be in the acceptable form as specified in SCC.

23.5 The Performance Guarantee will be discharged by the Procuring agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless otherwise **specified in SCC.**

23.6 The bid security of the successful bidder shall not be substituted with the Performance Guarantee.

24. Fraud and Corruption

24.1 The Procuring Agency requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

25. Sustainable Procurement

25.1 The Bidder shall conform to the sustainable procurement contractual provisions, if and as specified in the SCC.

D. Bidder's Personnel

26. Description of Personnel

26.1 The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Bidder's Key Personnel. The Key Personnel listed by title as well as by name are hereby approved by the Procuring Agency.

27. Removal and/or Replacement of Personnel

27.1 Except as the Procuring Agency may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Bidder, it becomes necessary to replace any of the Key Personnel, the Bidder shall provide as a replacement a person of equivalent or better qualifications.

27.2 If the Procuring Agency finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Bidder shall, at the Procuring Agency's written request specifying the grounds thereof, provide as a replacement a person with qualifications and experience acceptable to the Procuring Agency.

27.3 The Bidder shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

E. Obligations of the Procuring Agency

28. Assistance and Exemptions

28.1 The Procuring Agency shall use its best efforts to ensure that the Government shall provide the Bidder such assistance and exemptions as specified in the SCC.

29. Change in the Applicable Law

29.1 If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost of the related Services rendered by the Bidder, then the remuneration and reimbursable expenses otherwise payable to the Bidder under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred in the SCC.

30. Services and Facilities

30.1 The Procuring Agency shall make available to the Bidder and the Experts, for the purposes of the Services and free of any charge, the services, facilities and property described , at the times and in the manner specified in the SCC or terms of reference.

30.2 In case that such services, facilities and property shall not be made available to the Bidder, the Parties shall agree on (i) any time extension that it may be appropriate to grant to the Bidder for the performance of the Services, (ii) the manner in which the Bidder shall procure any such services, facilities and property from other sources, and (iii) the additional payments, if any, to be made to the Bidder as a result thereof.

F. Payments to the Bidder

31. Contract Price

31.1 The price payable shall be in Pakistani Rupees unless otherwise specified in the SCC. Prices charged by the Supplier for Goods delivered under the Contract shall not vary from the prices quoted by the Supplier in its Bid.

32. Terms and Conditions of Payment

32.1 Payments will be made to the Bidder according to the payment schedule stated in the SCC and as per actual invoice submitted by the Bidder.

32.2 Unless otherwise stated in the SCC, the advance payment shall be made against the provision by the Bidder of a bank guarantee for the same amount, and shall be valid for the period stated in the SCC. Any other payment shall be made after the conditions listed in the SCC for such payment have been met, and the Bidder have submitted an invoice to the Procuring Agency specifying the amount due.

33. Currency of Payment

33.1 Any payment under this Contract shall be made in the currency(ies) specified in the SCC.

G. Quality Control

34. Identifying Defects

34.1 The principle and modalities of Inspection of the Goods by the Procuring Agency shall be as indicated in the SCC. The Procuring Agency shall check the Bidder’s performance and notify him of any Defects that are found. Such checking shall not affect the Bidder’s responsibilities. The Procuring Agency may instruct the Bidder to search for a Defect and to uncover and test any service that the Procuring Agency considers may have a Defect. Defect Liability Period is as defined in the SCC.

35. Correction of Defects, and

Lack of Performance Penalty

35.1 The Procuring Agency shall give notice to the Bidder of any Defects before the end of the Contract. The Defects liability period shall be extended for as long as Defects remain to be corrected.

35.2 Every time notice a Defect is given, the Bidder shall correct the notified Defect within the length of time specified by the Procuring Agency's notice.

35.3 If the Bidder has not corrected a Defect within the time specified in the Procuring Agency's notice, the Procuring Agency will assess the cost of having the Defect corrected, the Bidder will pay this amount, and a Penalty for Lack of Performance.

36. Taxes and Duties

36.1 A Supplier shall be entirely responsible for all taxes, duties, fees, etc., incurred until delivery of the contracted Goods to the Procuring Agency.

H. Settlement of Disputes

37. Alternate Dispute Resolution

37.1 Upon the commencement of the Procurement Contract, any disputes arising between the contracting parties shall be resolved in accordance with Rule 66 of the Public Procurement Rules, 2026.

37.2 The procuring agency may refer the matter to the Chief Justice Islamabad High Court or Managing Director PPRA or the Secretary Ministry of Law & Justice for appointment of Arbitrator.

37.3 The fee for the Arbitrator shall be specified in Pak Rupees as determined by the appointing authority which shall be borne and shared equally by the contracting parties.

38. Change Orders

The Procuring Agency may at any time, by a written order given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:

a)Drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
b)The method of shipment or packing;
c)The place of delivery; and/or
d)The Services to be provided by the Supplier.

39. Contract Amendenments

39.1 Subject to GCC Clause 32, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

40. Sub-Contracts

40.1 The Supplier shall consult the Procuring Agency in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Supplier's obligations.

Special Conditions of Contract

SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

Number of GC Clause

Amendments of, and Supplements to, Clauses in the General Conditions of Contract

Number of GC Clause 1

Definitions

The Procuring Agency is: **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE**

The Supplier is:

The title of the subject procurement is: **15/0003/P-Plan-25-26-CEN/1-2025 FOR THE PROCUREMENT OF PORTABLE ULTRASONIC RAIL FLAW DETECTION MACHINE ETC = 03 ITEMS**

Number of GC Clause 3

Applicable/Governing Law:

The Contract shall be interpreted in accordance with the laws of Islamic Republic of Pakistan

Number of GC Clause 4

Language:

The language of the Contract, all correspondence and communications to be given, and all other documentation to be prepared and supplied under the Contract shall be in **English.**

Number of GC Clause 5

Notices:

The addresses for the notices are:

The Authority:

Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP
PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE
+92-429-920-4022
ccp@pakrail.gov.pk

Contractor/ Bidder:

[Name, address and telephone number].

The Contractor/ Bidder's Representative(s)

[Name, address, telephone number and e-mail address]

Number of GC Clause 7.1

The Authorized Representatives are:

For the Procuring Agency:

Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP
PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE
+92-429-920-4022
ccp@pakrail.gov.pk

For the Bidder:

Name: ……

Designation: ……..

Address: ……..

Number of GC Clause 8

Effectiveness of the contract

Number of GC Clause 9

Commencement of Contract:

Number of GC Clause 11.2

Expiration of Contract:

Number of GC Clause 15

Termination

In the event of termination of the contract due to any reason as already defined in the General Conditions of Contract, the Bidder shall be responsible for providing to the Authority the Goods till the time of alternate arrangements.

Number of GC Clause 17

Conflict of Interest:

The Procuring Agency reserves the right to determine on a case-by-case basis whether the Bidder should be disqualified from providing goods or services due to a conflict of a nature described in Clause GCC 17**.**

Number of GC Clause 22

Liquidated Damages

If the Bidder fails to provide services as required under the contract or in case of any data loss/data breach or any incident compromising the data security or other such failures related to any services, the Bidder shall pay to the Procuring Agency as Liquidated Damages at a rate of **0.07%** to **10.00%** of the Contract value, in accordance with the extent of performance failure & the cost of investigating such incidents as judged by the Authority.

Number of GC Clause 23

Performance Guarantee:

Instrument of Performance Guarantee shall be in the Name of : **Chief Controller of Purchase, Pakistan Railways, Headquarters Office**

The amount of performance guarantee shall be **5.00%** of the contract price in acceptable form of **Pay Order, Call at Deposit, Bank Guarantee, Demand Draft**

Number of GC Clause 32

Payment terms:

Payment will be made to the Bidder against the procured Goods and services according to the actual invoice or running bills submitted by the Bidder against the services provided within the time given in the conditions of the contract.

Number of GC Clause 33

Currency of Payment:

All the payment to be released to the contractor/Bidder shall be in Pakistani Rupees.

Number of GC Clause 34

Identifying Defects:

The Authority reserves the right at any time to inspect the premises of the provider to inspect the goods and monitor the goods being provided.

Inspections & Tests Requirements

1. For being Brand New, bearing relevant reference numbers of the equipment (Certificate from supplier)

2. For Physical Fitness having No Damages (Certificate from supplier)

3. For the Country of Origin as quoted by the Supplier (Certificate from manufacturer)

4 (a) Pre-Shipment Third-Party Inspection A third-party inspection of all materials to be procured by Pakistan Railways on FOR basis shall be inspected after delivery at DCP/I Mughalpura, Lahore. Such inspection shall be carried out by an independent, reputable, and duly approved inspection agency nominated by Pakistan Railways.

4 (b) The scope of inspection shall include, but not be limited to:- Physical conditions, compliance with specifications, functional performance and completeness of accessories and documentation. Dimensional

accuracy checks Assessment of workmanship Testing/ calibration (where applicable) Compliance with applicable quality standards.

4 (c) The inspecting agency shall issue a detailed inspection certificate/report confirming that the machines conform to all contractual obligations. Submission of such certificate shall be mandatory for acceptance of goods and release of payment.

4 (d) Any found substandard or deviating from specifications shall be rejected or required to be rectified at the sole cost and risk of the supplier. Supplier shall ensure testing, commissioning of machines and training of staff.All inspection-related charges shall be borne by the supplier

5(a) Liability During Warranty Period In the event that any defect or flaw in the material or machines arises during the warranty period, the third-party inspection agency shall share responsibility and shall be liable to the extent provided under the contract. This may include termination of the contract and/or imposition of penalties, including forfeiture of performance security/warranty, as applicable.

5(b) Copies of the Makers Test Certificate for complete machine guaranteeing the performance of the machine should be supplied along with the delivery of the each machine.

Delivery & Documents

Copies of the Supplier’s invoice showing Goods’ description, quantity, unit price, and total amount;

Original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods;

Copies of the packing list identifying contents of each package;

Manufacturer’s or Supplier’s Valid Warranty Certificate;

Certificate of Origin.

The above documents would be required even if the equipment has already been imported and is available with the supplier ex-stock

Copies of the Makers Test Certificate for complete machine guaranteeing the performance of the machine should be supplied along with the delivery of the each machine.

Number of GC Clause 37

Following is the guidance for Dispute Resolution

(a) For Contracts to be entered with foreign Contractor/ Service Provider:

All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.

(b) For Contracts to be entered with nationals of Pakistan:

i. If any dispute of any kind whatsoever shall arise between the Authority and the Bidder in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question

regarding its existence, validity, termination and the execution of the Contract – whether during developing phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 14 (fourteen) days following a notice sent by one Party to the other Party in this regard.

ii. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties.

iii. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration in accordance with GCC clause 38.

iv. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute.
v. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after completion of the contract.

Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the Authority shall pay the Bidder any monies due to the Bidder.

Rules of procedure for arbitration proceedings:

Any dispute between the Authority and a Bidder who is a national of the Islamic Republic of Pakistan arising in connection with the present Contract shall be referred to adjudication or arbitration in accordance with the laws of the Islamic Republic of Pakistan including Arbitration Act 1940, however above provision shall prevail in referring the case to the Arbitrator.

Place of Arbitration and Award:

The arbitration shall be conducted in English language and place of arbitration shall be at Islamabad. The award of the arbitrator shall be final and shall be binding on the parties.

Bid Securing Declaration

Form 9: Bid Securing Declaration

Date: *[insert date (as day, month and year)]*

Bid No.:***P182157***

Alternative No.: **[insert identification No if this is a Bid for an alternative]**

To: **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

1. have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;

2. Disagreement to arithmetical correction made to the Bid price; or

3. having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.

We understand this Bid Securing Declaration shall expire if we are not the successful

Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight (28) days after the expiration of our Bid.

Signed: [insert signature of person whose name and capacity are shown] In the capacity of
[insert legal capacity of person signing the Bid Securing Declaration]

Name: [insert complete name of person signing the Bid Securing Declaration]

Duly authorized to sign the Bid for and on behalf of: [insert complete name of Bidder]

Dated on day of , [insert date of signing]
Corporate Seal (where appropriate)

Contract Form

SECTION IX: CONTRACT FORMS

THIS AGREEMENT made the _____ day of _____ 20_____ between **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE**

(hereinafter called "the Procuring Agency") of the one part and *[name of Bidder]* of *[city and country of Bidder]* (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited Bids for provision of goods, viz., **15/0003/P-Plan-25-26-CEN/1-2025 FOR THE PROCUREMENT OF PORTABLE ULTRASONIC RAIL FLAW DETECTION MACHINE ETC = 03 ITEMS (*P182157*)** and has accepted a Bids by the Bidder for the provision of Goods in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

1. This form of Contract;
2. the Form of Bids and the Price Schedule submitted by the Bidder;
3. the Schedule of Requirements;
4. the Technical Specifications;
5. the Special Conditions of Contract;
6. the General Conditions of the Contract;
7. the Procuring Agency's Letter of Acceptance; and
8. [*add here: any other documents*]

3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the Goods related services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of Goods and the remedying of defects therein, the Contract Price or such other sum as may become payable under the

provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Procuring Agency:

……

Signed, sealed, delivered by _____the _____ (for the Procuring Agency)

Witness to the signatures of the Bidder: ……

Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BYTHE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: Contract Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten time the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Performance Guarantee Form

Performance Guarantee Form

To: **Chief Controller of Purchase, Pakistan Railways, Headquarters Office (Pakistan Railways Headquarters Office), CCP PAKISTAN RAILWAYS, HEADQUARTERS OFFICE, ALLAMA IQBAL ROAD, LAHORE**

WHEREAS *[name of Bidder]* (hereinafter called "the Bidder") has undertaken, in pursuance of Contract No. *[reference number of the contract]* dated *[insert date]* for provision of Goods*(*hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Bidder shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Bidder's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Bidders guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Bidder, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

_____

[name of bank or financial institution]

_____

[address]

_____

[date}

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annexure

Form of Bid Security

Information (Read-Only)

See Form Under Additional Forms and Documents: **Form of Bid Security** (page number: 79)

Price Schedule Form

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Price Schedule Form** (page number: 80)

Letter of Bid - Financial Proposal

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Letter of Bid - Financial Proposal** (page number: 81)

Bidder Information Form

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Bidder Information Form** (page number: 83)

Letter of Bid – Technical Proposal

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Letter of Bid – Technical Proposal** (page number: 84)

Beneficial Ownership Declaration Performa

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Beneficial Ownership Declaration Performa** (page number: 87)

Manufacturer’s Authorization

Information (Read-Only)

See Form Under Additional Forms and Documents: **Manufacturer’s Authorization** (page number: 89)

SPECIFICATIONS COMPLIANCE FORM

Technical Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **SPECIFICATIONS COMPLIANCE FORM** (page number: 90)

Specifications

Information (Read-Only)

See Form Under Additional Forms and Documents: **Specifications** (page number: 91)

Procurement Forms

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

PUBLIC PROCUREMENT REGULATORY AUTHORITY
(PPRA)
EPADS

Additional Forms and Documents

Annex – H

Form of Bid Security

(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]
*[**Guarantor** letterhead or SWIFT identifier code]*
Beneficiary: *[Purchaser to insert its name and address]*
No.: *[Purchaser to insert reference number for the Request for Bids]*
Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*
Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that_____*[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of_____under Request for Bids No._____ ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of ___ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

(a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or

(b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

_____

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

Annex-G-1

NOTE: (MUST BE SUBMITTED ALONGWITH FINANCIAL BID DUELY FILLED AND COMPLETED FOR THE QUOTED ITEMS)

Price Schedule Form

S #	Stock Code/ SAP Code	Description	Qty	Unit	Unit Price (Figures)	Unit Price (Words)	Total Price (Figure)
1							
2							
3							
4							
5							
6							
7							
8							
						Total Bid Price of the Tender	

Note All prices are inclusive of taxes handling and allied charges at DDP Basis as mentioned in schedule of requirement

Name, Stamp and signature of the bidder

PAKISTAN RAILWAYS

Annex – D

Note: (MUST BE DULY FILLED, COMPLETED AND SUBMITTED ALONGWITH FINANCIAL BID ON FIRM'S LETTER HEAD)

Letter of Bid - Financial Proposal

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT
Place this Letter of Bid - Financial Proposal in the second envelope marked "FINANCIAL PROPOSAL".
The Bidder must prepare the Letter of Bid - Financial Proposal on stationery with its letterhead clearly showing the Bidder's complete name and business address.
Note: All italicized text is to help Bidders in preparing this form.

Date of this Bid submission: [*insert date (as day, month and year) of Bid submission*]

Tender No.: [*insert number of bidding process*]

To: [*insert complete name of Procuring Agency*]

We, the undersigned Bidder, hereby submit the second part of our Bid, the Financial Proposal

In submitting our Financial Proposal we make the following additional declarations:

(a) **Bid Validity Period**: Our Bid shall be valid for the period specified in tender documents (as amended, if applicable) from the date fixed for the bid submission deadline specified in tender documents (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(b) **Total Price:** The total price of our Bid, excluding any discounts offered in item (c) below is:

In case of only one lot, the total price of the Bid is [*insert the total price of the bid in words and figures, indicating the various amounts and the respective currencies*];

In case of multiple lots, the total price of each lot is [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*];

In case of multiple lots, total price of all lots (sum of all lots) [*insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies*];

(c) **Discounts:** The discounts offered and the methodology for their application are:

(i) The discounts offered are: [*Specify in detail each discount offered*]

(ii) The exact method of calculations to determine the net price after

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(iii) application of discounts is shown below: [*Specify in detail the method that shall be used to apply the discounts*];

(d) **Commissions, gratuities and fees**: We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: [*insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity*].

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

(e) **Binding Contract**: We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed.

Name of the Bidder:*[*insert complete name of the Bidder*]

Name of the person duly authorized to sign the Bid on behalf of the Bidder:
** [*insert complete name of person duly authorized to sign the Bid*]

Title of the person signing the Bid: [*insert complete title of the person signing the Bid*]

Signature of the person named above: [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] day of [*insert month*], [*insert year*]

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

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Annex – E

Note:- (MUST BE SUBMITTED ALONGWITH TECHNICAL BID ON FIRMS LETTER HEAD)

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid submission*]

Tender No.: *[insert number of Bidding process]*

1. Bidder's Name [insert Bidder's legal name]
2. In case of JV, legal name of each member : [insert legal name of each member in JV]
3. Bidder's actual or intended country of registration: [insert actual or intended country of registration]
4. Bidder's year of registration: [insert Bidder's year of registration]
5. Bidder's Address in country of registration: [insert Bidder's legal address in country of registration]
6. Bidder's Authorized Representative Information Name: [insert Authorized Representative's name] *Address:* [insert Authorized Representative's Address] *Telephone/Fax numbers:* [insert Authorized Representative's telephone/fax numbers] *Email Address:* [insert Authorized Representative's email address]
7. Attached are copies of original documents of [check the box(es) of the attached original documents] ☐ *Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above.* ☐ *In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 3.4.* ☐ *Establishing that the Bidder is not under the supervision of the Procuring Agency* *8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.*

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Annex – C

Note: (MUST BE DULY FILLED , COMPLETED AND SUBMITTED ALONGWITH TECHNICAL BID ON FIRM'S LETTER HEAD.)

Letter of Bid – Technical Proposal

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid in the first envelope "TECHNICAL PROPOSAL".

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text in black font is to help Bidders in preparing this form and Bidders shall delete it from the final document.

Date of this Bid submission: [*insert date (as day, month and year) of Bid submission*]

Tender No: [*insert identification*]

To: [*insert complete name of Procuring Agency*]

We, the undersigned Bidder, hereby submit our Bid, in two parts, namely:

(a) the Technical Proposal, and
(b) the Financial Proposal.

In submitting our Bid we make the following declarations:

(a) No reservations: We have examined and have no reservations to the bidding document,

(b) Eligibility: We meet the eligibility requirements and have no conflict of interest in accordance with tender documents;

(c) Bid/Proposal-Securing Declaration: We have not been suspended nor declared ineligible by the Procuring Agency based on execution of a Bid Securing Declaration or Proposal Securing Declaration in the Procuring Agency's country in accordance with tender documents;

(d) Conformity: We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: [insert a brief description of the Goods and Related Services];

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(e) **Bid Validity Period**: Our Bid shall be valid for the period specified in tender documents (as amended, if applicable) from the date fixed for the Bid submission deadline specified in tender documents (as amended, if applicable), and it shall remain binding upon us, and may be accepted at any time before the expiration of that period;

(f) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;

(g) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with tender documents;

(h) **Suspension and Debarment**: We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Procuring Agency. Further, we are not ineligible under Pakistan laws;

(i) **State-owned enterprise or institution:** [select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of];

(j) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;

(k) **Not Bound to Accept:** We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and

(l) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

(m) We hereby certify that we are not involved in any litigation that hinder us to participate in this tender and in due performance of the contract if issued to us.

(n) We hereby certify that we are not under debarment or blacklisting from any agency within or outside Pakistan.

Name of the Bidder: *[*insert complete name of Bidder*]

Name of the person duly authorized to sign the Bid on behalf of the Bidder:
** [*insert complete name of person duly authorized to sign the Bid*]

Title of the person signing the Bid: [*insert complete title of the person signing the Bid]*

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Annex – C-2

Signature of the person named above: [*insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing*] **day of** *[insert month], [insert year]*

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

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Form 12 : Annex-I of PPRA SRO 592

Beneficial Ownership Declaration Performa

For 50 Million contract value

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contacts.

1. Name: _____
2. Father's Name / Spouse's Name _____
3. CNIC/NICOP/Passport No. _____
4. Nationality _____
5. Residential Address _____
6. Email Address _____
7. Date on which shareholding, control or interest acquired in the business. _____
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entries or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided.

1	2	3	4	5	6	7	8	9	10
Name	Legal form (company/Limited Liability Partnership/ Association of Persons/Single Member Company/Partnership Firm/Trust/Any other individual, body corporate (to be specified	Date of Incorporation/registration	Name of Registering Authority	Business Address	Country	Email Address	Percentage of shareholding, control or interest of BO in the legal person or legal arrangement	Percentage of shareholding, control or interest of legal person or legal arrangement in the Company	Identify of natural person who ultimate owns or control the legal person or arrangement

9. Information about Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names)

1	2	3	4	5	6	7	8
Name and surname (In Block Letters)	CNIC No. (in case of foreigner, Passport No.)	Father's / Husband's name in full	Current Nationality	Any other Nationality (ies)	Occupation	Residential Address in full or the registered/ principal office address for a subscribers other than natural person	Number of shares taken by cash subscriber (in figure and words)
			Total number of shares taken (in figures and words)				

10. Any other information incidental to or relevant to Beneficial Owner(s).

[Additional page may be added if required]

Name and Signature
(Person authorized to issue notice on behalf of the company)

PUBLIC PROCUREMENT REGULATORY AUTHORITY (PPRA) EPADS

Annex – I

NOTE:- (MUST BE FILLED AND SUBMITTED ON MANUFACTURERS LETTER HEAD ALONGWITH TECHNICAL BID WHEN SPECIFICALLY REQUIRED IN TECHNICAL REQUIREMENTS)

Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the BDS.]

Date: *[insert date (as day, month and year) of Bid submission]*
No.: [*insert tender number]*

To: [insert complete name of Procuring Agency]

WHEREAS

We [*insert complete name of Manufacturer*], who are official manufacturers of *[insert type of goods manufactured]*, having factories at [insert full address of Manufacturer's factories], do hereby authorize [*insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with clauses of the General Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer*]

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer*]

Title: *[insert title]*

Dated on _____day of_____*[insert date of signing]*

Manufacturer Contact Details: [Insert phone number with country/area code, official contact email & website URL].

Note: (MUST BE COMPLETELY FILLED FOR QUOTED ITEMS AND SUBMITTED ALONGWITH TECHNICAL BID ON FIRM'S LETTER HEAD)

SPECIFICATIONS COMPLIANCE FORM

S #	Stock Code/SAP Code	Description	Qty	Unit	Delivery Terms	Delivery Period / Schedule	Name of Manufacturer	Country of Origin	Brand Name. NOTE: Brand offered must conform to the specification / particulars given in Column-3. In case of equivalent brand supplier will submit proof of 100 % equivalence and compliance.

We hereby certify that goods shall be brand new, free of any defects and in conformity with drawings, standards and technical specifications/ requirements mentioned in bidding documents for the items quoted by us.

Name, Stamp and signature of the bidder

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eSPECIFICATIONS OF DIGITAL NON CONTACT THERMOMETER HAVING RANGE MEASUREMENT UP TO 1500 °C DURING PRE-HEATING OF RAIL FOR THERMIT WELDING OF RAILS JOINTS.

The Digital Thermometer (Temperature Measurement System) should be capable to measure the temperature of rail during the pre-heating of rail ends (at head, web and foot) up-to 1500 °C suitable for use in industrial applications such as Pakistan Railways.

TECHNICAL SPECIFICATIONS

DIGITAL NON-CONTACT THERMOMETER (INFRARED PYROMETER) FOR PRE-HEATING OF RAIL DURING THERMIT WELDING

1. General

1.1: The Digital Non-Contact Thermometer (Infrared Pyrometer) shall be suitable for **accurate, non-contact temperature measurement of rail surface** during **pre-heating for thermit welding of rail joints** on Pakistan Railways network.

1.2: The instrument shall be capable of measuring **high temperatures up to 1500°C**, enabling safe and reliable temperature monitoring without physical contact.

1.3: The thermometer shall be **hand-held, rugged, portable**, and suitable for use in outdoor railway field conditions.

1.4: Measurement shall be based on **infrared radiation (non-contact method)** with fast response time.

2. Measurement Range & Accuracy

2.1 **Temperature Range:**

- Minimum: 0°C or better
- Maximum: **1500°C**

2.2 **Accuracy:**

- ±1% of reading or ±2°C (whichever is greater) up to 1000°C
- ±1.5% of reading above 1000°C

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2.3 Resolution:

- 1°C (or better)

2.4 Repeatability:

- ±0.5% of reading

3. Optical & Measurement Characteristics

3.1 Spectral Response:

- Suitable for high-temperature metal surfaces (short wavelength preferred, e.g. 0.9–1.1 µm)

3.2 Distance-to-Spot Ratio (D:S):

- Minimum **30:1** (higher preferred for safe stand-off distance)

3.3 Response Time:

- ≤ 100 ms

3.4 Emissivity Adjustment:

- Adjustable emissivity range **0.10 to 1.00**
- Preset emissivity suitable for **steel rails.**

4. Display & Controls

4.1 Display Type:

- High-contrast **back-lit LCD / OLED display.**

4.2 Display shall show:

- Measured temperature (°C)
- Emissivity value
- Battery status
- Max/Min temperature (selectable)
- Adjustable emissivity range 0.10 to 1.00

4.3 Laser Targeting:

- Dual or single laser pointer for accurate aiming (laser to be switchable ON/OFF).

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5. Data & Functions

5.1 **Data Hold Function** for reading stabilization.

5.2 **Maximum / Minimum / Average temperature** functions.

5.3 **High / Low temperature alarm** with visual and/or audible indication.

5.4 **Auto power-off** to conserve battery.

6. Power Supply

Battery operated (rechargeable Li-ion preferred) with **Minimum operating time:** 8 hours continuous use and **Low battery indication** on display. Charger (if rechargeable) shall be suitable for **AC 110–220 V**, 50/60 Hz.

7. Environmental & Mechanical Requirements

7.1 **Operating Temperature:**

- -5°C to +55°C (or better)

7.2 **Storage Temperature:**

- –05°C to +55°C

7.3 **Ingress Protection:**

- Minimum **IP54** for dust and splash resistance.

7.4 **Shock & Vibration:**

- Suitable for rough handling in railway field conditions.

7.5 **Weight:**

- Not more than 500 grams (including battery).

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8. Accessories

8.1 Protective carrying case.

8.2 User manual in English.

8.3 Calibration certificate traceable to national / international standards.

8.4 Charger and battery (if applicable).

9. Calibration & Compliance

9.1 Instrument shall be **factory calibrated** and supplied with a valid calibration certificate.

9.2 The thermometer shall conform to relevant standards such as:

- ASTM E1256 (Infrared Thermometers)
- IEC 61326 (EMC compliance)
- CE / equivalent international certification

10. Warranty

10.1 Minimum **12 months warranty** against manufacturing defects.

10.2 Warranty shall cover repair or replacement of defective parts during the warranty period.

11. Training & Support (Optional)

11.1 Supplier shall provide basic **operational training** and guidance for correct emissivity setting for rail steel during thermit welding.

12. Makers Test Certificate

Copies of the Makers Test Certificate for complete equipment guaranteeing the performance of the Digital Non Contact Thermometer should be supplied along with the delivery of the each Digital Non Contact Thermometer.

13. Inspection of Delivered Digital Non Contact Thermometer

After delivery of Digital Non Contact Thermometer, the inspection of all the Digital Non Contact Thermometers and spare parts shall be carried out in Pakistan by the purchaser or his authorized representative. In case, any Digital Non Contact Thermometer found not compliant with the required specifications, the Supplier shall be liable to replace the same in addition to fulfillment of other terms and conditions of the Purchase Order.

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(Revision-1)

REVISED TECHNICAL SPECIFICATION FOR RAIL PREHEATING AIR COMPRESSOR

1. Scope

This schedule of requirments and specifications relates to the supply of Rail Preheating Air Compressor. This specification supercedes technical specification issued/ approval so far relating to rail preheting air compressor.

2. Operating Requirments

The Portable Rail preheating unit should be fitted on trolley and designed for preheating of rail ends in advance of alumina thermit welding of the rails. The machine should work on a compressed air and petrol mixture and should work on two joints simultaneously:

Main features of petrol air compressor unit are as follows:-

i. Petrol Engine driven, air cooled, 4-stroke 5 to 8hp with both manual starters/self-starting options.

ii. Belt driven air-blower, supplying compressed air at a pressure of 0.2-1 bar approximately.

iii. Petrol tank with a capacity of 20-30 liters, slightly pressurized by air feed from the air blower. Petrol tank should have two outlets allowing it to work on two joints at the same time through two preheating burners and suitable for all rail sections.

iv. Petrol tank should have guage to show the fuel quantity.

v. The weight of complete unit should not be more than 100 Kg.

vi. Piping assembly for distributor of the fuel mixture should made of:-

- Air pressure control valve
- Pressure gauge
- Two cocks to control the petrol supply
- Two cocks to close/off the petrol distribution circuit
- One cock to isolate one burner when only one joints is to be heated
- Two hoses complete with connections each 10 to 12 meter long, each with non-return safety valve and preheating burner should be suitable for all rail sections.
- Barrow-type trolley with retractable handles, mounted on two wheels, which carries the complete preheating unit.

vii. Preheating process duration should be within 15 minutes and the average consumption of petrol should not be more than 1.50 liter for one weld.

viii. An acceleration lever should be provided in order to match the engine output with the requirements of the unit.

ix. Detail operating, Maintenance, service and major assembly / component overhauling manual shall be prepared in English/Urdu language and four copies of these shall be supplied with each machine.

The supplier will provide necessary tools and equipment for maintenance of preheating set.

xi. The supplier / manufacturer will be bound for warranty of 02 years from date of commissioning.

xii. The equipment must be free from any design defect, material defects and workmanship defect etc.

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3. **Claimatic condition**

Claimatic conditions in Pakistan in which the machine is required to perform are given below: -

i. Maximum temperature recorded (in shade)	127.1°F
ii. Average of maximum readings	119.1°F
iii. Minimum reccorded	0.20°F
iv. Average of minimum readings	23.7 °F

Relative Humidity

i. Maximum reccorded	100%
ii. Average of maximum readings	81%
iii. Minimum reccorded	2%
iv. Average of minimum readings	21%

5. **Tools**

Each machine shell be supplied with a complete set of tools kit for repair and maintenance.

6. **SPAREPARTS**

Following spares should be sperately quoted for each macine. If any spare parts, are not required for any offered machine, the same should not be quoted.

i. Connecting Rod with piston and piston rings	4 sets with each machine
ii. Spark plugs	5 Nos. with each machine
iii. Gas kit muffler	5 Nos. with each machine
iv. Fuel filter	5 Nos. with each machine
v. Air filter	5 Nos. with each machine
vi. Carborator	2 Nos. with each machine
vii. Regulating cocks	2 Nos. with each machine
viii. Piping set	2 Nos. with each machine

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PUBLIC PROCUREMENT REGULATORY AUTHORITY
Hassan Shahbaz
ACP-V-RHL
02/11/2026, 2:57:30 pm

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TECHNICAL SPECIFICATIONS

PORTABLE ULTRASONIC RAIL FLAW DETECTOR MACHINE FOR THERMIT WELDED JOINTS (SPOT INSPECTION)

1. General

1.1: The Portable Ultrasonic Rail Flaw Detector (USFD) Machine shall be **specifically designed for complete inspection of thermit welded rail joints** on Pakistan Railways network, capable of detecting internal flaws **across the full rail section, i.e. rail head, web, and foot.**

1.2: The USFD machine shall be capable of **storing inspection data** and generating inspection results through an **external printer.**

1.3: The USFD machine shall be capable of **wireless data transfer (Wi-Fi)** to Laptop / Computer for downloading, analysis, reporting, and record keeping.

1.4: The machine shall utilize the **latest digital pulse-echo ultrasonic testing technique** suitable for detection of defects in thermit welded rail joints.

2. Main Features

2.1: Search Units (Probes) – Standard Specification

The machine shall be supplied with probes suitable for complete joint coverage:

a) 0° Probe

Frequency: 4 – 5 MHz

Quantity: 01 No.

Application: Detection of horizontal fissures and internal defects in rail head of thermit welded joint.

b) 45° Angle Probe

Frequency: 2.0 – 2.25 MHz

Quantity: 01 No.

Application: Detection of transverse defects in rail head, web, and foot of welded joint.

c) 70° Angle Probe

Frequency: 2.0 – 2.25 MHz

Quantity: 01 No.

Application: Detection of transverse and vertical defects in welded joint.

d) Any additional probe, scanning arrangement, or feature deemed necessary by the manufacturer to ensure no portion of the welded joint remains uninspected shall be included.

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2.2: Gain Control

Gain range shall be 0 to 80 dB, adjustable.

2.3: B-Scan Range

Selectable B-scan scanning range from 250 mm to 1000 mm.

2.4: Display

High-resolution bright color LCD display, size not less than 6 inches and up to 9 inches.

Display shall be sunlight readable for outdoor railway field conditions.

2.5: Data Storage

Internal storage capacity shall be sufficient to store minimum 5,000 images / inspection records.

2.6: Display Modes

Simultaneous display of A-scan and B-scan modes.

2.7: Alarm Function

Visual and/or audible alarm shall be available for flaw detection.

2.8: Measurement Function

Built-in caliper / measurement function to measure detected flaw size directly on screen in millimeters (mm).

2.9: Probes Replacement

Probes shall be easily replaceable by the user at site without special tools.

3. Battery

3.1: Remaining battery charge level indication shall be available on the display.

3.2: Rechargeable battery shall provide minimum 6 hours continuous operation.

3.3: Battery charger shall be suitable for AC input 110 – 220 V, and full charging time shall be not more than 4–5 hours, with charging indicator.

4. Weight & Dimensions

4.1: Total weight of the machine including battery shall be **less than 4 kg** for easy handling.

4.2: External dimensions shall not exceed:

Width: 300 mm

Height: 200 mm

Depth: 120 mm

5. Type of Rails

The machine shall be suitable for inspection of **all rail sections used on Pakistan Railways**, including but not limited to:

60 kg, 54 EI & 100 RE

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6. Spare Parts (To Be Supplied With Each Machine)

The following spare parts shall be supplied with each USFD machine. Prices shall be quoted separately:

a) Probes	–	02 Sets
b) Rechargeable Batteries	–	02 Nos.
c) Probe Cables (2m length)	–	02 Nos.
d) Conversion Cable (for Sono-ruler)	–	02 Nos.

e) Any other essential spare parts required for reliable operation.

7. Technical Literature

7.1: One copy of illustrated **technical catalogue** showing machine features, probes, accessories, and spare parts shall be submitted with the technical bid in **English language.**

8. Standard Accessories

8.1: The quoted price shall include all standard accessories required for proper operation.

8.2: One tool kit set shall be provided with each machine.

8.3: Machine shall be supplied with a safe, waterproof soft carrying case.

9. Reference

The bidder shall submit **at least two references** from other railway track maintaining organizations, indicating capability and experience in rail ultrasonic testing equipment.

10. Warranty

Warranty for trouble-free service shall be:

18 months from date of commissioning, or 24 months from date of receipt at Karachi Port / DCPI/KC, whichever is earlier. Defective parts or machine shall be repaired or replaced, and warranty shall restart from the date of replacement/repair.

11. Atmospheric Conditions

11.1: The machine shall operate reliably under the following conditions:

Temperature: – **10°C to +55°C**

Relative Humidity: up to **100%**

Dusty railway environment

Equipment shall be **suitably tropicalized** for Pakistan Railways conditions.

11.2: During operation, machine temperature shall not reach a level that may cause damage to insulation or adjacent components. The machine shall be **safe in all operating conditions.**

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12. Training & Service Engineer

12.1: The manufacturer shall depute a qualified Service Engineer to Pakistan for installation, commissioning, and training for 05 working days. All expenses shall be borne by the supplier.

12.2: The Service Engineer shall be fully conversant with:

Electronic circuits

Operating system

Calibration & maintenance

Training shall be conducted in English, using manuals, drawings, multimedia, and field demonstration.

13. Information & Documents to Be Supplied

13.1: Hard and soft copies of **operation & maintenance manuals**, including videos on USB.

13.2: Hard copies of **electrical and electronic circuit diagrams**.

14. Qualification & Experience

14.1: Manufacturer shall have minimum 10 years' experience in manufacturing ultrasonic rail flaw detection equipment.

14.2: Schedule of qualification, experience, and supply record (year-wise) with customer contact details and performance certificates shall be submitted.

14.3: Non-manufacturer bidders shall submit valid authorization from OEM.

14.4: Manufacturer shall provide minimum two satisfactory performance certificates from end users.

15. Makers Test Certificate

Copies of the Makers Test Certificate for complete machine guaranteeing the performance of the machine should be supplied along with the delivery of the each machine.

16. Inspection of Delivered Machines:

After delivery of machines, the inspection of all the machines and spare parts shall be carried out in Pakistan by the purchaser or his authorized representative. In case, any machine found not compliant with the required specifications, the Supplier shall be liable to replace the same in addition to fulfillment of other terms and conditions of the Purchase Order.

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