

FUNCTIONAL REQUIREMENT SPECIFICATION (FRS) FOR STR OF PAUT RAIL-WELD TESTER

1. SCOPE: This Schedule of Technical Requirement (STR) is to assess the manufacturing capability of the vendors for new registration/approval of Phased Array Ultrasonic System testing of Alumino Thermit (A.T.) Welded Rail joints and Flash Butt (F.B.) welded Rail Joints

2. GENERAL INFRASTRUCTURE & MANUFACTURING DETAILS: Manufacturer should have adequate covered accommodation for Storing raw material finished items awaiting dispatch and arranging Inspection. Manufacturer should have the system to ensure that the final product conforms to the RDSO Specification.

The "Make in India" Policy of Government of India shall be applicable.

- a. Machinery & Plant (M&P)
- b. Manufacturer should have the facility for repair.
- c. Manufacturer shall attend to the complaints immediately and implement remedial action over Indian Railways
- d. Manufacturer should have adequate facility to test the raw materials as well as the finished product.

3. TESTING FACILITIES

4. QUALITY CONTROL REQUIREMENTS

- (i) The firm should have acquired ISO 9001: 2015 certification for the product for which an approval is sought and the product should be broadly covered in the scope of the certification for manufacture and supply.
- (ii) Quality manual of the firm for ISO 9001: 2015 should clearly indicate at any stage the control over manufacturing and testing of the said product.
- (iii) A system of easy traceability of the product from raw material stage to finished product stage should be available.
- (iv) The Quality Assurance Plan (QAP) of the product prepared as per RDSO's ISO guidelines should be available.
- (v) Manufacturer should have well trained staff under the Supervision of qualified staff with experience in the field.
- (vi) System should exist for documentation of the following:
 - a. Incoming raw material with Test Certificate (TC) reference of supplier as well as internal test and audit checking from outside agency & product data sheet, wherever required.
 - b. Ensure that details regarding the test results of various stages in production and routine testing are available.
 - c. Ensure that a system exists for calibration of testing & measuring equipment and record is maintained.
 - d. Calibration of test equipment: All the test equipment shall be periodically checked and calibrated.
 - e. The frequency of calibration shall be once in a year.

5. MINIMUM AREA REQUIRED FOR MANUFACTURING SET-UP

6. LEGAL REQUIREMENT: As per the RDSO's ISO Apex documents.

7. ANY OTHER REQUIREMENT

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