

**GENERAL TECHNICAL SPECIFICATION SHEET**

PRODUCT:- Analog Earth Tester 0-100 Ohm hand driven with all accessories.

**General Technical Specification**

- **Type:** Hand Driven Analog Earth Resistance Tester
- **Measuring Range:** 0–100 Ohms (Single Range)
- **Display:** Analog Moving Coil Meter
- **Operating Method:** Hand Generator (Crank Driven)
- **Test Method:** Three-terminal/Four-terminal Earth Resistance Measurement
- **Accuracy:**  $\pm 3\%$  of Full Scale or better
- **Test Frequency:** As per manufacturer standard
- **Terminal Arrangement:** E (Earth), P (Potential), C (Current)
- **Body:** Rugged portable metal/ABS enclosure suitable for field use
- **Application:** Measurement of earth resistance of electrical installations, substations, transformers, poles, lightning arresters and earthing systems
- **Accessories Included:**
  - Two auxiliary earth spikes/electrodes
  - Test leads/wires (complete set)
  - Hand operating handle
  - Carrying case
  - Instruction manual
  - Calibration/Test Certificate

**Warranty:** As per concerned Manufacturer's Guarantee / Warranty clause from the date of supply.

During the period of warranty, it shall be the responsibility of the eligible bidder to provide trouble-free operation/ repair/ replacement of the electrical tools at the bidder's cost.

**Documentation:** Detailed technical manuals, handbooks, warranty card and factory quality assurance checklist, test results and any other certifications mentioned in the technical specifications shall be supplied along with the consignment.

Supplied manuals/handbooks must cover detailed technical specifications and installation, operation, maintenance and system safety procedures.

The receipts for taxes paid, if any, for the supplied equipment should also be submitted.

**Inspection:** 1. Supply items ( likes P&M items, Luminaries and any special items included in LOA having bid value more than Rs. 5,00,000/- should be inspected / tested by RITES (as per Railway Board's Circular) with firm cost at manufacturer's premises / site as decided by Railway.

2. Material supplied should be as per the description, scope and specification in the tender document. Contractor will intimate in advance for readiness of materials for inspection.

3. Manufacturers test certificates for the different test carried out should be submitted by the tenderer.

**The decision of Railway Administration for inspection of supply items by RITES / Consignee by firm own cost over the matter will be final.**

The description of schedule item indicative in nature. However, maintenance may be in line of relevant RDSO's or IS or PCEE/ER's specification & design, **Electrical General Service Manual ,Volume-I (Power Supply) & latest** or OEM Standardisation or equivalent international standard for detail technical specification and all other clauses, terms & conditions for design, manufacture, testing, supply, installation and commissioning followed by statutory rules and common prudence and shall confirm to the rules & regulations of Railways.**The decision of Railway Administration over the standardisation & make for execution of the work will be final.**

The eligible contractor must furnish the detail of material which is proposed to be supplied or used inevitably got approved from Sr.DEE(G)/ASN or Sr.SE/Elect/G- the Supervision-in-charge of the work or authorized representative of Sr. SE/Elect/G before commencement of work. Decision of Railway administration over the standardization & make of all the material for the items of work schedule will be final.

**PUBLIC PROCUREMENT POLICY (MAKE IN INDIA):**Bidder must follow Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017.The definition and calculation of local content in accordance with the Make in India policy as approved by PCEE/ER is 50% of Minimum Local Content (MLC).

These technical details / general specifications are indicative only. In case of any ambiguity in the General specification or Technical Details it may be collected from Sr. DEE (G)/Asansol's office if required. All items pertaining to Electrical should confirm to relevant IS or equivalent international standard. Any deviation must be got approved by Sr.DEE/G/ASN.

Any typographical error shall not be construed to be benefit of the Contractor. In all cases the interpretation and decision of Sr.DEE/G/ASN shall be final and binding upon the contractor.

The issues not covered under these tender documents shall be governed by General Conditions of Contract April-2022, or its time to time latest amendments if any Railway Board Circular or its latest amendments & Letters issued in Zonal PHOD.

**Sr. Divisional Electrical Engineer(Gen.)**  
**Eastern Railway/ Asansol Division**