

GENERAL TECHNICAL SPECIFICATION SHEET

PRODUCT:- Colour LCD Thermal Imager 19000 Pixel

General Technical Specifications

- **Detector Resolution:** 160 × 120 pixels (19,200 pixels) or better
- **Display:** Colour LCD screen, minimum 2.4" to 3.5" TFT LCD
- **Thermal Sensitivity (NETD):** ≤ 0.06°C (60 mK) at 30°C or better
- **Temperature Measurement Range:** -20°C to +550°C (minimum)
- **Accuracy:** ±2°C or ±2% of reading, whichever is greater
- **Image Modes:** Thermal, Visual, Fusion/Picture-in-Picture (where applicable)
- **Field of View (FOV):** Suitable for electrical and industrial inspection applications
- **Focus:** Fixed focus
- **Image Storage:** Internal memory and/or removable SD card
- **Image Format:** JPEG/BMP with radiometric data support
- **Colour Palettes:** Minimum Iron, Rainbow, Gray and Hot-Cold modes
- **Emissivity Adjustment:** Adjustable from 0.01 to 1.00
- **Laser Pointer:** Built-in
- **Data Transfer:** USB interface
- **Power Supply:** Rechargeable Li-ion battery with charger
- **Operating Time:** Minimum 4 hours continuous operation
- **Protection Class:** IP54 or better
- **Operating Temperature:** 0°C to +50°C minimum
- **Accessories:** Carrying case, battery, charger, USB cable, software/manual, calibration certificate and all standard accessories

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**