

**SECTION-III****TECHNICAL SPECIFICATION FOR PURCHASE OF NON-CONTACT AC VOLTAGE DETECTORS AGAINST TN-2531.****1.0 SCOPE:**

This specification covers design, manufacture, assembly, testing at manufacturer's works before dispatch and delivery at Nigam stores any where in the jurisdiction of Rajasthan, of Non-Contact AC Voltage Detectors.

**2.0 TECHNICAL REQUIREMENTS OF SPECIFICATIONS:****2.1 General description and Standards:**

Non-Contact AC Voltage Detectors with flashing red LED light ,audible beep of convenient size, pen style design with pocket clip and two Nos. AAA batteries suitable for detection of presence of nearby AC voltage from **100 V – 600 V 50 Hz** should have the following features:

- Non-Contact Detection of AC Voltage from **100VAC** to 600VAC
- Upon detection, tip glows and beep sound
- Rugged, double molded case
- Suitable for outlets or against wire insulation testing
- Flashing bright red LED light indicator
- Convenient size with pocket clip
- Suitable for use on 50Hz AC circuits

2.2 The manufacturer should have valid ISI license for the tendered item.

**2.3 Technical Parameters:**

Standard	CATIII 600V
Operating Range	<b>100 ~ 600V AC</b>
Operating Temp.	-10°C ~ 50°C
Size & Style	Convenient size with pocket clip
Supply required	Two "AAA" batteries

**2.4 MARKING:-**

The symbol for the indication for the following shall be printed on instrument:  
Hazardous Voltage. Risk of electric shock.

1. Risk of danger. Important information.
2. Conforms to relevant European Union directives.

Besides above following shall be marked:

**600 V CAT III**

**100 ~ 600V** test before using.

The Nigam reserves the right to change the words to be printed.

### **3.0 INSPECTION OF MATERIAL AT FIRM'S WORKS.**

The Nigam reserves the right for carrying out operational Test on the samples to be selected as mutually agreed.

Inspection of material shall be governed by clause 1.27 of General conditions of Contract. Before dispatch, the material shall be inspected and tested by the authorized inspecting officer/Agency of the Purchaser at the works of the manufacturer. The manufacturer/supplier shall furnish the details of routine and acceptance tests, which shall be arranged at the time of inspection required as per relevant standards to ascertain testing at the manufacturer's works in presence of purchaser's representative.

### **4.0 PACKING:**

The material packed in a suitable pack with a hard paper /card board carrying case suitable for easy portability, rugged use and to prevent damage during transit.

### **5.0 MAINTENANCE AND GUARANTEE:**

The Voltage Detector shall be guaranteed for 18 months from the date of receipt of material in stores. The material defective during the guarantee period shall be replaced promptly. The defective material shall be collected from respective stores against fresh material. The material found defective within the above guarantee period shall be replaced by the supplier free of cost within a period of one month from date of intimation.

In case of delay in replacement of defective material, the recovery similar to the delay in delivery shall be applicable.

### **6.0 BID SAMPLE**

Bidders are required to furnish One No. sample of Non-Contact AC Voltage Detector meeting requirement of technical specification within three days after opening of technical bid, failing which their bid is liable to be rejected.

### **7. ADDITIONAL ORDER**

Repeat orders for additional quantities, upto 50% of original ordered quantities, may be placed by the Nigam, on the same rates, terms and conditions given in the contract.

### **8. QUALITY ASSURANCE PLAN :**

- 1) The Bidder shall invariably furnish following information along with his offer, failing which the offer shall be liable for rejection. Information shall be separately given for individual type of equipment offered.
- i) Statement giving list of important raw materials, names of sub-suppliers for the raw materials, list of standards according to which the raw

- material are tested, list of tests normally carried out on raw material in the presence of Supplier's representative, copies of test certificates.
- ii) Information and copies of test certificates as in (i) above in respect of bought out items.
  - iii) List of manufacturing facilities available.
  - iv) Level of automation achieved and list of areas where manual processing exists.
  - v) List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.
  - vi) Special features provided in the equipment to make it maintenance free.
  - vii) The bidder should have adequate facilities to carryout accurately all required tests during manufacturing and routine/acceptance tests as per relevant ISS/IEC standards at the final end routine/acceptance. The supplier will ensure that all testing/measuring instruments/apparatus are calibrated at regular periodicity from reputed test house as per relevant standards and a certificate of testing authority is made available to purchaser's inspector at the time of inspection. Such calibration certificates, in any case shall not be older than one year on the date of such tests".
  - viii) List of testing instruments and apparatus along with their last date of calibration, available with the Bidder for testing of equipment specified and test plant limitation, if any, vis-a-vis the type, special, acceptance and routine tests testing during manufacture specified in the relevant standards. These limitations shall be very clearly brought out in "Schedule of Deviations".
- 2) The Supplier shall also submit the following information to the Purchaser, along with drawings/GTPs/BOM of ordered material, within 15 days of placement of order for purchaser's approval:-**
- i) Name of the raw material as well as bought out accessories and the names of sub-suppliers selected from those furnished along with the offer.
  - ii) Type test certificates of the raw material and bought out accessories/items.
  - iii) Quality Assurance Plan (QAP) withhold points for Purchaser's inspection. The QAP and Purchaser's hold points shall be discussed between the Purchaser and the Supplier before the QAP is finalized.
- 3) The Supplier shall submit the routine test certificates of bought out items and raw material at the time of routine testing of the fully assembled equipment.

**9. Purchasing on the Risk & cost of supplier, in case of non-execution of order/delay in delivery.**

As per field requirement, as it is, material (s) / equipment (s) is /are urgently required to Nigam and for which final notice has been given to supplier but supplier is being breach of agreement against stipulated delivery schedule, if at any time during the currency of the contract, the performance in whole or in part be prevented or delayed by more than the three months of the delivery schedule, the purchaser reserves the right to procure the material/equipment on order or part thereof from any other source at the risk and cost of the contractor/ supplier.

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