

**SECTION-III****TECHNICAL SPECIFICATION FOR PURCHASE OF NON-CONTACT AC VOLTAGE DETECTORS AGAINST TN-2345.****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 24 V – 600 V 50 Hz should have the following features:

- Non-Contact Detection of AC Voltage from 24VAC 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	24 ~ 600V AC
Operating Temp.	-10°C ~ 50°C
Size & Style	Convenient size with pocket clip
Supply required	Two "AAA" batteries

**2.4 Safety Requirement:** The product should confirm to relevant Indian standards/IEC standards and should be ISI marked. The user manual along with safety information shall be provided in Hindi /English Language.

**2.5 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  
24 V ~ 600 V 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.

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