

PRODUCT PURCHASING SPECIFICATION
TRANSFORMER ENGINEERING DEPARTMENT
BHEL BHOPAL

Specification No
TRE-102C
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Rev 00 Date: 13.01.2009



**SPECIFICATION FOR 80 kV AUTOMATIC TRANSFORMER OIL
BREAKDOWN VOLTAGE TEST KIT**

1. GENERAL

The equipment shall be suitable for automatic determination of electric strength (Breakdown voltage) of insulating oil to IEC:60296 up to 80 kV when measured in accordance with IEC:60156, BS5730, ASTM.

2. CONSTRUCTIONAL DETAILS

- 2.1 The test cell shall be as per IEC:60156 suitable for BDV up to 80 kV without external flashover.
- 2.2 The unit shall be of automatic type having control unit and high voltage transformer in a common cabinet with necessary partition. HV chamber interlocking and zero start interlocking shall be provided.
- 2.3 The unit shall have motorized drive to increase voltage linearly as per the rate specified in IEC:60156. Provision should also be available for manual increase of voltage. The unit shall be complete with test cell, stirrer and "GO" and "NO GO" gauge for adjusting the gap.
- 2.4 Basic accuracy desirable is 3%.
- 2.5 Separate printer should be available for printing test results.
- 2.6 The unit shall be provided with a calibration meter suitable for verifying the calibration of oil test sets.
- 2.7 The equipment shall be suitable for operation at 240 Volts, 50 Hz. Single phase AC supply.
- 2.8 As per IEC:60156, BDV test kit shall also be provided with circuit breaker operated by current resulting from the breakdown of the sample and shall break the voltage within 10 milliseconds.
- 2.9 Spare items and optional accessories, if any, shall also be quoted separately.
- 2.10 Two sets of descriptive leaflets, catalogues, principles of operation etc. shall also be sent along with the offer.

REV	DATE	ALT CKD	REV	DATE	ALT CKD	REV 00	NAME	SIGN	DATE
						PREP	R. K. SINGH		13.01.09
						CKD	S. K. GUPTA		13.01.09

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3. INSPECTION & DESPATCH

- 3.1 Test certificates and inspection report duly signed by the inspecting agency to be furnished.
- 3.2 Three sets of inspection & test report, descriptive leaflets, operation & maintenance manual shall be sent alongwith dispatch document. One set shall be supplied alongwith the equipment.
- 3.3 The supplier shall furnish a list of all fittings and components in the dispatch details giving description and quantity of each item (Quantity of each items shall be mentioned). All items shall be properly packed in wooden gunny bags so as to avoid scratches/damage in transit.

4. DEVIATION

Any deviation from the above specification may be clearly indicated with proper justification.