

Laboratory **Electronics and IT Products Safety Testing Laboratory, CSIR-Central Institute of Mining and Fuel Research (CIMFR), Barwa Road, Dhanbad, Jharkhand**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-8467**

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Validity **04.05.2019 to 03.05.2021**

Last Amended on --

“In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020”

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRONICS TESTING

I.	IT EQUIPMENT			
1.	Information Technology Equipment including Electrical Business Equipment	Components Transformer Interconnecting Cable	IS 13252 (Part 1) (Clause 1.5)	Qualitative
		Abnormal Operating and fault conditions	IS 13252 (Part 1) (Clause 5.3)	1 °C to 400°C
		Clearance, Creepage, Distance & Distance through Insulation	IS 13252 (Part 1) (Clause 2.10.3 & 2.10.4)	0.02 mm to 200 mm
		Connection to cable distribution system- Voltage surge test	IS 13252 (Part 1) (Clause 7.4.2)	0.01kV to 10 kV
		Connections to Main Supply-cord Anchorage and Strain Relief	IS 13252 (Part 1) (Clause 3.2.6)	30 N to 100 N 0.1 Nm to 0.35 Nm
		Connections to Mains Supply-Cord Guards	IS 13252 (Part 1) Clause 3.2.8	1 gN to 9999 gN
		Design & Construction handle, manual control	IS 13252 (Part 1) Clause 4.3.2	0.5 N to 300 N
		Direct Plug-in Equipment	IS 13252 (Part 1) Clause 4.3.6	0.01 Nm to 0.60 Nm
		Discharge of capacitors	IS 13252 (Part 1) Clause 2.1.1.7	5 ns to 50 s 2 mV/div. to 10 V/div.
		Electrical Insulation	IS 13252 (Part 1) Clause 2.9.2	(-) 20 °C to 80 °C 10 %Rh to 95 %Rh 0.01 MΩ to 10GΩ 50 V to 1 kV

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Program Manager

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Protection against Electric shock–Opening in Enclosures	IS 616 (Clause 9.1.3)	4V to 100 V
		Remote Control Devices held in hand	IS 616 (Clause 12.3)	Qualitative
		Resistance to external forces	IS 616 (Clause 9.1.7)	0.5 N to 300 N
		Resistance to fire	IS 616 (Clause 20.0)	0 to 35 mm 100 °C to 700 °C 500 °C to 960 °C
		Stability & mechanical hazard	IS 616 (Clause 19.0)	1° to 360°, 1° to 15° 0.5 N to 300 N
		Strain Relief	IS 616 (Clause 16.5)	30 N to 100 N 0 to 100 count 0.1 Nm to 0.35 Nm
		Terminals–Provision for protective Earthing	IS 616 (Clause 15, 15.2)	0.001 Ω to 1 Ω
		Torque on screw terminals	IS 616 (Clause 17.1)	0.1 Nm to 5 Nm 0.02 mm to 6 mm
		Torque test on covers	IS 616 (Clause 17.7)	0.1 N to 10 N
		Transient voltages	IS 616 (Clause 13.3.4)	1 V to 12 kV
		Wall / ceiling mounting	IS 616 (Clause 19.6)	0.5 N to 300 N
		Constructional Requirements with regard to protection against Electrical Shock	IS 616 (Clause 8.0)	1 mA to 250 mA 0.1 kV to 10 kV 0.1 N to 300 N
		Hazardous Live Parts & Accessible Parts	IS 616 (Clause 9.1.1.1)	0.1 μA to 20 mA 30 μA _{AC} to 10 A _{AC} 10 mV _{AC} to 750 V _{AC} 1 μA _{DC} to 10 A _{DC} 0.1 mV to 1000 V

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