

Laboratory	HI-Physix Laboratory, L-83, Sector-1, DSIDC Industrial Area, Bawana, Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electronics Testing	Issue Date	21.07.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	AUDIO EQUIPMENT			
1.	Audio-Video and Similar Electronics Apparatus Safety Requirement	Marking & Instructions	IS 616: 2010 IEC 60065:2005 (Cl. 5)	Qualitative
		Laser Radiation (Products Marked Class I only)	IS 616: 2010 IEC 60065:2005 (Cl. 6.2)	Qualitative
		Heating under normal Operating Condition	IS 616: 2010 IEC 60065:2005 (Cl.7) Except 7.2	0 to 400 °C 0.001 to 11.11x10 ⁶ MΩ
		Constructional requirement with regard to the protection against electric shock	IS 616: 2010 IEC 60065:2005 (Cl.8)	0 to 100 °C, 20 to 99% Rh 0.01 to 200mm 0.01kV to 5kVac/dc 0 to 30N 10 Hz to 55Hz to10Hz, 0.35mm
		Electric Shock Hazards under normal operating Conditions	IS 616: 2010 IEC 60065:2005 (Cl.9)	40 to75V , 0 to 75 N 0.001V to 1000Vac/dc 1μA to 20 Ma
		Insulation Requirements Surge Test Humidity Treatment Insulation Resistance and Dielectric Strength Test	IS 616: 2010 IEC 60065:2005 (Cl.10)	0.01 kV to 15 kV 0 to100 °C, 20 to 99% Rh
			IS 616: 2010 IEC 60065:2005 (Cl.11)	0.01to 5kV ac/dc 100 kΩ to 2 GΩ
	Fault Conditions		0 to 400 °C 0 to 1000Vac/dc	

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		Mechanical Strength	IS 616: 2010 IEC 60065:2005 (Cl.12)	0 to 9999 Counts 10 g to 20 kg 0.01mm to 200 mm Upto 6.0 Nm Torque & 0.5 Nm for Spring Hammer 2 Joules 10 Hz to 55Hz to 10 Hz 0.35mm, 0 to 199.9° C
		Clearances & Creepage (Cl. 13)	IS 616: 2010 IEC 60065:2005	0.05 mm to 1 mm 0.01mm to 200 mm 0 to1000 Vac/dc
		Batteries (Cl. 14.10)	IS 616: 2010 IEC 60065:2005	0.001V to 100V 1 µA to 10 A ac/dc
		Terminal (Cl. 15)	IS 616: 2010 IEC 60065:2005	0 to 6 Nm 0.01 mm to 200mm 0.01 A to 50A, 0.01 to19.99 C`
		External flexible Cords	IS 616: 2010 IEC 60065:2005 (Cl. 16)	0.001 mm to 25 mm 0.01 mm to 200 mm 40 N, 0.25 Nm
		Electrical Connection & Mechanical Fixings	IS 616: 2010 IEC 60065:2005 (Cl. 17)	0 to 6 Nm 0 to 30 N
		Stability & Mechanical Hazards	IS 616: 2010 IEC 60065:2005 (Cl. 19)	Inclination 0 to 20° Force 0 to 250 N
		Resistance to fire	IS 616: 2010 IEC 60065:2005 (Cl. 20)	Mass 20N, Ball Ø 5mm 0 to 500 Vac, 9.5 mm 1ms to 99.99 min

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II.	IT EQUIPMENT				
1.	Safety of information technology equipment including electrical business equipment	General Components	IS 13252 (Part 1): 2010 IEC 60950-1 :2005	Qualitative	
		Power Interface	IS 13252 (Part 1): 2010 IEC 60950-1 :2005(Cl. 1.6)	Voltage AC 0.05 V to 500V DC 0.01V to 300 V Current AC 0.001A to 20A DC 0.001A to 5A Power: 0.1W to 2000W	
		Markings & Instructions	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl.1.7)	Qualitative	
		Protection from Hazards			
		Protection from Electric Shock & Energy Hazards	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.1)	40V to 75V, 0 to 75N 0 to 5 kV ac/dc, (100k to 2G) Ω 0.05 mm to 1 mm, 0.01 mm to 200 mm	
	SELV Circuits	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.2)	Voltage AC/ DC 0.01 V to 1000V Current AC/ DC 0.001 V to 10 A		
	TNV Circuits	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.3)	Voltage AC/ DC 0.01 V to 1000 V Current AC/ DC 0.001 A to 10 A 0.01 to 5kV ac/dc		

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	Safety of information technology equipment including electrical business equipment	Limited Current Circuits	IS 13252 (Part1): 2010 IEC 60950-1 :2005 (Cl. 2.4)	Current AC/ DC 0.001 A to 10 A & Visual Examination
		Limited Power Sources	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.5)	Voltage AC/ DC 0.01V to 1000 V Current AC/ DC 0.001 A to 10 A
		Provision for earthing and bonding	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.6)	0 to 50 A, 19.99 V 0.001 mm ² – 25 mm ² 0.001 - 5 ohms
		Over-current and earth fault protection in primary circuits	IS 13252 (Part 1): 2010 IEC 60950-1 :2005(Cl. 2.7)	Qualitative
		Electrical Insurances	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.9)	0 to 100 °C, 20 to 99% Rh 0 to 5kV
		Clearances, Creepage distances and distances through insulation	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 2.10)	0.05 mm to 1 mm, 0.01 mm to 200 mm 0.01 kV to 15 kV 0.01 to 5 kVac/dc 0 to 100 °C, 20 to 99%Rh

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	Safety of information technology equipment including electrical business equipment	Wiring Connection and Supply General	IS 13252 (Part 1):2010 IEC 60950-1 :2005(Cl.3.1)	Qualitative
		Connections to mains Supply	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl. 3.2)	Voltage AC/ DC 0.01 to 1000V 0.001mm to 25 mm 0.01mm to 200 mm 0.01 kVac/dc to 5 kVac/dc kVac/dc 0 to 100N
		Wiring Terminals for external conductors	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl 3.3)	0 to 400°C 0.001mm to 25mm 0.01mm to 200mm
		Disconnections from the main Supply	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl 3.4)	Qualitative
		Interconnection of equipment	IS 13252 (Part 1):2010 IEC 60950-1 :2005(Cl. 3.5)	Qualitative
		Physical Requirements Stability	IS 13252 (Part 1): 2010 / IEC 60950-1 :2005 (Cl.4.1)	Inclination 0 to 20°, Force 0 to 1000 N
		Mechanical Strength	IS 13252 (Part 1): 2010 / IEC 60950-1 :2005 (Cl. 4.2)	0 to 250 N, 0 to 1000 N 0 to 199.9°C
		Design & Construction:(Cl. 4.3) Batteries (Cl. 4.3.8) Human Exposure to UV Radiation only	IS 13252 (Part 1):2010 / IEC 60950-1 :2005 (Cl. 4.3.13.4)	0 to 100N, 0.25 Nm Voltage AC/DC 0.01 V to 100 V/ 1µA to 5 A

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	Safety of information technology equipment including electrical business equipment	Protection against hazardous moving parts	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl.4.4)	0 to 100N
		Thermal Requirements	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl. 4.5)	0 to 199.9 °C 0 to 400 °C 10 mΩ to 1MΩ
		Opening in Enclosure	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl.4.6)	(-)50 °C to 100 °C 0.01to 200 mm
		Resistance to fire	IS 13252 (Part 1):2010 IEC 60950-1 :2005 (Cl. 4.7)	0 to 1350 °C Mass 20 N, BallØ5 mm 0-500c, 9.5mm 1 ms to 99.99 min
		Electrical requirements & simulated abnormal conditions		
		Touch current & protective conductor current	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 5.1)	1µA to 20mA
		Electric Strength Test	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 5.2)	0.01 to 5kV ac/dc
		Abnormal operating & fault conditions	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 5.3)	0 to 400°C 10 mΩ to 1 MΩ 1 µA to 20 mA
		Connections to Telecommunication network	IS 13252 (Part 1): 2010 IEC 60950-1 :2005 (Cl. 6.1, 6.2, 6.3)	0.01 to 5kV ac/dc 100 kΩ to 2 GΩ 0.01 V to 1000 V/ 0 to 10A ac/dc
		Connection to cable Distribution System (Cl. 7.1, 7.2,7.3, 7.4)	IS 13252 (Part 1):2010 IEC 60950-1 :2005	0.01 to 5 kV ac/dc 0.01 kV to 15 kV

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III. EMI TEST FACILITY				
1.	Self-ballasted lamps for general lighting Services	Radio Interference/ Disturbance Measurement (Conducted & Magnetic field Radiated emission)	IS 15111 (Part 2):2002 IEC 60969 ed1.2:2001	Conducted and Radiated (Magnetic Field) 9 kHz to 30 MHz
2.	Electrical lighting and similar equipment		IS 6873 (Part 5):2012 CISPR 15:2009 EN 55015 (Cl. no. 4.3.1)	20 db μ A to 100 db μ A 150 kHz to 30 MHz 20 db μ A to 120 db μ A
3.	AC static Watt Hour meter		IS 13779:1999 IEC 62053-1:2003/CBIP 304 IEC 62052-11:2003	Conducted and Radiated (Magnetic Field)
4.	AC static transformer operated watt hour & VAR-Hour meter		IS 14697:1999 IEC 62053-22:2003 IEC62053-23:2003 IEC 60255-25:2000	9 kHz to 30 MHz 20 db μ A to 100 db μ A 150 kHz to 30 MHz 20 db μ A to 120 db μ A
5.	Measuring relays & protection equipment		IS 60947 (Part 5/Sec1): 2003 IEC 60947-5-1:2009 IEC 60204-1:2005	
6.	Electromechanical control circuit devices			
7.	Electrical equipment of machines			

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8.	Electronic equipment used on rail vehicles		IEC 60571:2006	Conducted and Radiated (Magnetic Field)
9.	Medical electrical equipment (Table 201)		IEC 60601-1-2:2007 IEC 61326-1:2005 IEC 62040-2:2005	9 kHz to 30 MHz 20 db μ A to 100 db μ A 150 kHz to 30 MHz 20 db μ A to 120 db μ A
10.	Electrical equipment for measurement, control and laboratory use		IS12784 (Part 1): 1989 IEC:60688:2002 IEC 61000-6-3:2011	
11.	Uninterruptible power systems (Cl. No. 2.4.1)		IS 6873(P-2/Sec-1):2012 CISPR 14-1:2011 (Cl. No 4.1.1) IS 6873(Part-3):2009 CISPR 13:2009 (Cl. No. 4.2) IS 6873 (Part 4):2009	
12.	Electrical measuring transducers for converting ac electrical Quantities into dc electrical quantities		CISPR 11:2009/ EN 501:1999 (Cl. No. 5.1) IS 6873(Part -7):1999/ CISPR 22:2008/EN 55022 (Cl. No. 5.1)	

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IV. SAFETY TESTING FACILITY				
1.	i) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, (read in conjunction with for Microwave Oven)	Marking Protection Against Electric Shock	Clause-7 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 Clause-8 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS:302-1:2008 & IEC 60335-1:2010	Qualitative 0 to 60V (AC) 0 to 75 N
	ii) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, read in conjunction with for clock.	Starting Of Motor Operated Appliances	Clause-9 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS:302-1:2008 & IEC 60335-1:2010	0 to 12 kW
		Input and Current	Clause-10 IS 302-2-25:1994 IEC 60335-2-25:2010	0 to 12 kW
		Temperature Rise	Clause-11 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 400°C

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		Electrical insulation and Leakage Current at Operating Temperature	Clause-13 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 1999 μ A 0 to 199.9mA 0 to 5 kV, 200mA (100 to 2G) Ω
	iii) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, read in conjunction with for Microwave Oven.	Radio & Television Interference Suppression (Transient Over Voltage test)	Clause-14 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS 302-1:2008 & IEC 60335-1:2010 IS 302-1:2008 & IEC 60335-1:2010	Upto 15 kV
	iv) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, read in conjunction with for clock.	Moisture Resistance Test	Clause-15 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0-100 °C, 20-99% Rh
		Insulation Resistance and Electric Strength (After Humidity treatment)	Clause-16 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 1999 μ A 0 to 199.9 mA 0 to 5kV, 200 mA (100 to 2G) Ω
		Overload Protection	Clause-17 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 400°C 0 to 300V/0 to 30A Upto 12 kW

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		Endurance Test	Clause-18 IS 302-2-25:1994 IEC 60335-2-25:2010	0 to 12 kW, 0 to 9999 h Upto 100000 cycle
		Abnormal Operation	Clause-19 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 400 °C
		Stability and Mechanical Hazards	Clause-20 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	Inclination 0 to 20° Weight 22.5kg, 7kg, 3.5kg
		Mechanical Strength	Clause-21 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 9999 Counts 10g to 20kg 0 to 200mm, 0 to 25mm Up to 5 Nm Torque & 1 Nm for Spring Hammer
	v) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, read in conjunction with for Microwave Oven.	Construction	Clause-22 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS:302-1:2008 & IEC 60335-1:2010	0 to 100W/m ² and Visual and Physical Test
		xvi) Internal Wiring	Clause-23 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	Qualitative

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	vi) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, Section 26 read in conjunction with for clock.	xvii) Components	Clause-24 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS 302-1:2008 & IEC 60335-1:2010	Qualitative
		xviii) Supply Connection And External Flexible Cords	Clause-25 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 99999 Counts
		xix) Terminal For External Conductor	Clause-26 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 5 Nm 0.01 to 200 mm
		xx) Provision For Earthing	Clause-27 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 19.99V 0 to 50A
		xxi) Screws and Connections	Clause-28 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0 to 5Nm

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	vii) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, Section 25 read in conjunction with for Microwave Oven.	xxii) Creepage distances and Clearances	Clause-29 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002	0.05 mm to 1mm 0.01mm to 200 mm
		xxiii) Resistance to heat, Fire and Tracking	Clause-30 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS:302-1:2008 & IEC 60335-1:2010	0 to 1350 °C
	viii) Safety of house hold & Similar Electrical appliances, Part 2 Particular requirements, read in conjunction with for clock.	xxiv) Resistance to Rusting	Clause-31 IS 302-2-25:1994 IEC 60335-2-25:2010 IS 302-2-26:1994 IEC 60335-2-26:2002 IS 302-1:2008 & IEC 60335-1:2010	0 to 40 °C, 0 to 100°C 20 to 99% Rh

