



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NATIONAL RESEARCH AND TECHNOLOGY CONSORTIUM (C-ACT),
DEPARTMENT OF INDUSTRIES COMPLEX, SECTOR-1, PARWANOO, SOLAN,
HIMACHAL PRADESH , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5689 Page No. : 1 / 121

Validity 01/04/2019 to 31/03/2021 Last Amended on 29/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Abnormal operation	IS 302-2-14 : 2009,IS 4250 Clause 19: 1980	Amb to 400 °C, 1 kV to 4 kV
2	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Classification	IS 302-2-14 2009, IS 4250 Clause 6: 1980	Qualitative
3	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Clearances, Creepage distances and Solid Insulation	IS 302-2-14 : 2009,IS 4250 Clause 29: 1980	Qualitative(0 – 150 mm)
4	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Components	IS 302-2-14 : 2009,IS 4250 Clause 24: 1980	Qualitative
5	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Construction	IS 302-2-14 : 2009,IS 4250 Clause 22: 1980	Qualitative
6	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Endurance	IS 4250 Clause 18: 1980	40 W to 5000 W
7	ELECTRICAL-DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Internal wiring	IS 302-2-14 : 2009,IS 4250 Clause 23: 1980	1 kV to 4 kV



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
8	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Leakage current & electric strength at operating temperature	IS 302-2-14 : 2009,IS 4250 Clause 13: 1980	30 microA to 2 mA, 1 kV to 4 kV
9	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Leakage current and Electric strength	IS 4250 : 1980, IS 302-2-14 Clause 16: 2009	30 microA to 2 mA, 1 kV to 4 kV
10	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Marking and Instructions	IS 302-2-14 : 2009,IS 4250 Clause 7: 1980	Qualitative
11	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Mechanical Strength	IS 302-2-14 : 2009,IS 4250 Clause 21: 1980	Qualitative(0.5 J)
12	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Moisture resistance	IS 4250 : 1980, IS 302-2-14 Clause 15: 2009	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)
13	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Operational Tests	IS 4250 Clause 34: 1980	Qualitative(40 W to 5000 W)
14	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Power Input and Current	IS 302-2-14 : 2009,IS 4250 Clause 10: 1980	40 W to 5000 W



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15	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Protection against access to live parts/ Protection against electric shock	IS 302-2-14 : 2009,IS 4250 Clause 8: 1980	Qualitative(1 V to 50 V,0 to 20 N)
16	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Provision for earthing	IS 302-2-14 : 2009,IS 4250 Clause 27: 1980	1 mohm to 0.1 ohm
17	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Resistance to rusting	IS 302-2-14 : 2009,IS 4250 Clause 31: 1980	Qualitative
18	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Screws and connections	IS 302-2-14 : 2009,IS 4250 Clause 28: 1980	Qualitative(0.2 Nm to 2.5 Nm)
19	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Stability and mechanical hazards	IS 302-2-14 : 2009,IS 4250 Clause 20: 1980	Qualitative(0 - 15 deg)
20	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Strength of assembly	IS 4250 Clause 37: 1980	Qualitative(25 kgf)
21	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Temperature rise/ Heating	IS 302-2-14 : 2009,IS 4250 Clause 11: 1980	Amb to 400 °C



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22	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Temperature withstand test for bowl	IS 4250 Clause 35: 1980	Qualitative
23	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Terminals for external conductors	IS 302-2-14 : 2009,IS 4250 Clause 26: 1980	Qualitative
24	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Test for controls	IS 4250 Clause 36: 1980	Qualitative(Upto 280 V AC, Upto 30 A)
25	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Transient Overvoltage	IS 4250 : 1980, IS 302-2-14 Clause 14: 2009	0.3 kV to 13 kV
26	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Radiation, toxicity and similar hazards	IS 302-2-14 : 2009,IS 4250 Clause 32: 1980	Qualitative
27	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Resistance to heat and fire	IS 302-2-14 : 2009,IS 4250 Clause 30: 1980	Amb to 200 °C
28	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Domestic Electric Food Mixers (Liquidizers & Grinders), Electric Kitchen Machines	Supply connection and external flexible cords	IS 302-2-14 : 2009,IS 4250 Clause 25: 1980	Qualitative(30 N to 100 N, 0.1 Nm to 0.35 Nm)



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29	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Abnormal operation	IS 302-2-201 : 2008, IS 368 Clause 19: 2014	Amb to 400 °C, 1 kV to 4 kV
30	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Classification	IS 302-2-201 : 2008, IS 368 Clause 6: 2014	Qualitative
31	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Clearances, Creepage distances and Solid Insulation	IS 302-2-201 : 2008, IS 368 Clause 29: 2014	Qualitative(0 to 150 mm)
32	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Components	IS 302-2-201 : 2008, IS 368 Clause 24: 2014	Qualitative
33	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Construction	IS 302-2-201 : 2008, IS 368 Clause 22: 2014	Qualitative
34	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Endurance	IS 302-2-201 : 2008, IS 368 Clause 18: 2014	100 W to 5000 W
35	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Internal wiring	IS 302-2-201 : 2008, IS 368 Clause 23: 2014	1 kV to 4 kV



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36	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Leakage current and Electric strength	IS 302-2-201 : 2008, IS 368 Clause 16: 2014	30 microA to 2 mA1 kV to 4 kV
37	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Leakage current and Electric strength at operating temperature	IS 302-2-201 : 2008, IS 368 Clause 13: 2014	30 microA to 2 mA, 1 kV to 4 kV
38	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Marking and Instructions	IS 302-2-201 : 2008, IS 368 Clause 7: 2014	Qualitative
39	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Mechanical Strength	IS 302-2-201 : 2008, IS 368 Clause 21: 2014	Qualitative(0.5 J)
40	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Moisture Resistance	IS 302-2-201 : 2008, IS 368 Clause 15: 2014	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)
41	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Operation under overload conditions of Appliances with Heating Elements	IS 302-2-201 : 2008, IS 368 2014 clause 12: 2014	Amb to 400 °C, 100 W to 5000 W
42	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Power Input and Current	IS 302-2-201 : 2008, IS 368 Clause 10: 2014	100 W to 5000 W



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43	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Protection against access to live parts/ Protection against electric shock	IS 302-2-201 : 2008, IS 368 Clause 8: 2014	Qualitative(1 V to 50 V,0 to 20 N)
44	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Provision for earthing	IS 302-2-201 : 2008, IS 368 Clause 27: 2014	1 mohm to 0.1ohm
45	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Radiation, toxicity and similar hazards	IS 302-2-201 : 2008, IS 368 Clause 32: 2014	Qualitative
46	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Resistance to heat and fire	IS 302-2-201 : 2008, IS 368 Clause 30: 2014	Amb to 200 °C
47	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Resistance to rusting	IS 302-2-201 : 2008, IS 368 Clause 31: 2014	Qualitative
48	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Screws and connections	IS 302-2-201 : 2008, IS 368 Clause 28: 2014	Qualitative(0.2 Nm to 2.5 Nm)
49	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Stability and mechanical hazards	IS 302-2-201 : 2008, IS 368 clause 20: 2014	Qualitative(0 to 15 degree)



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50	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Supply connection and external flexible cords	IS 302-2-201 : 2008, IS 368 Clause 25: 2014	Qualitative(30 N to 100 N, 0.1 Nm to 0.35 Nm)
51	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Temperature rise/ Heating	IS 302-2-201 : 2008, IS 368 Clause 11: 2014	Amb to 400 °C
52	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Terminals for external conductors	IS 302-2-201 : 2008, IS 368 Clause 26: 2014	Qualitative
53	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Immersion Water Heaters	Transient Overvoltage	IS 302-2-201 : 2008, IS 368 Clause 14: 2014	0.3 kV to 13 kV
54	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Abnormal operation	IS 8978 : 1992, IS 302- 2-35 Clause 19: 2011	Amb to 400 °C, 1 kV to 4 kV
55	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Classification	IS 302-2-35 : 2011, IS 8978 Clause 7: 1992	Qualitative
56	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Clearances, Creepage distances and Solid Insulation	IS 8978 : 1992, IS 302- 2-35 Clause 29: 2011	Qualitative(0 to 150 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
57	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Components	IS 8978 : 1992, IS 302- 2-35 Clause 24: 2011	Qualitative
58	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Construction	IS 8978 : 1992, IS 302- 2-35 Clause 22: 2011	Qualitative
59	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Endurance	IS 8978 Clause 12: 1992	Qualitative
60	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Finish	IS 8978 Clause 10: 1992	Qualitative
61	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Internal wiring	IS 8978 : 1992, IS 302- 2-35 Clause 23: 2011	1 kV to 4 kV
62	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Leakage current and Electric strength	IS 8978 : 1992, IS 302- 2-35 Clause 16: 2011	30 microA to 2 mA, 1 kV to 4 kV
63	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Leakage current and Electric strength at operating temperature	IS 8978 : 1992, IS 302- 2-35 Clause 13: 2011	30 microA to 2 mA, 1 kV to 4 kV



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64	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Marking and Instructions	IS 302-2-35 : 2011, IS 8978 Clause 7: 1992	Qualitative
65	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Mechanical Strength	IS 8978 : 1992, IS 302- 2-35 Clause 21: 2011	Qualitative(0.5 J)
66	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Moisture resistance	IS 8978 : 1992, IS 302- 2-35 Clause 15: 2011	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)
67	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Operation of Flow Switch	IS 8978 Clause 11: 1992	Qualitative(10000 times)
68	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Power Input and Current	IS 8978 : 1992, IS 302- 2-35 Clause 10: 2011	100 W to 5000 W
69	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Protection against access to live parts/ Protection against electric shock	IS 8978 : 1992, IS 302- 2-35 Clause 8: 2011	Qualitative(1 V to 50 V,0 to 20 N)
70	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Provision for earthing	IS 8978 : 1992, IS 302- 2-35 Clause 27: 2011	1 mohm to 0.1 ohm



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71	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Radiation, toxicity and similar hazards	IS 8978 : 1992, IS 302- 2-35 Clause 32: 2011	Qualitative
72	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Resistance to heat and fire	IS 8978 : 1992, IS 302- 2-35 Clause 30: 2011	Amb to 200 °C
73	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Resistance to rusting	IS 8978 : 1992, IS 302- 2-35 Clause 31: 2011	Qualitative
74	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Screws and connections	IS 8978 : 1992, IS 302- 2-35 Clause 28: 2011	Qualitative(0.2 Nm to 2.5 Nm)
75	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Stability and mechanical hazards	IS 8978 : 1992, IS 302- 2-35 Clause 20: 2011	Qualitative(0 to 15 degree)
76	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Supply connection and external flexible cords	IS 8978 : 1992, IS 302- 2-35 Clause 25: 2011	Qualitative(30 N to 100 N, 0.1 Nm to 0.35 Nm)
77	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Temperature rise/ Heating	IS 8978 : 1992, IS 302- 2-35 Clause 11: 2011	Amb to 400 °C



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78	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Transient Overvoltage	IS 8978 : 1992, IS 302- 2-35 Clause 14: 2011	0.3 kV to 13 kV
79	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Instantaneous Water Heater	Terminals for external conductors	IS 8978 : 1992, IS 302- 2-35 Clause 26: 2011	Qualitative
80	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron / Steam Iron	Classification	IS 302-2-3 : 2007, IS 366 Clause 7: 1991	Qualitative
81	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron / Steam Iron	Leakage current and Electric strength at operating temperature	IS 366 : 1991, IS 302- 2-3 Clause 13: 2007	30 microA to 2 mA, 1 kV to 4 kV
82	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron / Steam Iron	Marking and Instructions	IS 302-2-3 : 2007, IS 366 Clause 8: 1991	Qualitative
83	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron / Steam Iron	Protection against access to live parts/ Protection against electric shock	IS 366 : 1991, IS 302- 2-3 Clause 8: 2007	Qualitative(1 V to 50 V, 0 to 20 N)
84	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron / Steam Iron	Transient Overvoltage	IS 366 : 1991, IS 302- 2-3 Clause 14: 2007	0.3 kV to 13 kV



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85	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron / Steam Iron	Power Input and Current	IS 366 : 1991, IS 302- 2-3 Clause 10: 2007	100 W to 5000 W
86	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Abnormal operation	IS 366 : 1991, IS 302- 2-3 Clause 19: 2007	Amb to 400 °C, 1 kV to 4 kV
87	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Clearances, Creepage distances and Solid Insulation	IS 366 : 1991, IS 302- 2-3 Clause 29: 2007	Qualitative(0 to 150 mm)
88	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Components	IS 366 : 1991, IS 302- 2-3 Clause 24: 2007	Qualitative
89	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Construction	IS 366 : 1991, IS 302- 2-3 Clause 22: 2007	Qualitative
90	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Finish	IS 366 Clause 17: 1991	Qualitative
91	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Internal wiring	IS 366 : 1991, IS 302- 2-3 Clause 23: 2007	1 kV to 4 kV



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92	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Leakage current and Electric strength	IS 366 : 1991, IS 302- 2-3 Clause 16: 2007	30 microA to 2 mA, 1 kV to 4 kV
93	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of cyclic fluctuation of temperature	IS 366 Clause 14: 1991	Amb to 400 °C
94	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of heating up time	IS 366 Clause 10: 1991	Amb to 400 °C
95	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of initial overswing temperature and heating-up excess temperature	IS 366 Clause 13: 1991	Amb to 400 °C
96	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of sole plate temperature	IS 366 Clause 11: 1991	Amb to 400 °C
97	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of temperature distribution	IS 366 Clause 12: 1991	Amb to 400 °C
98	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of temperature drop under load	IS 366 Clause 15: 1991	Amb to 400 °C



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
99	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Measurement of thermostatic stability	IS 366 Clause 16: 1991	Amb to 400 °C
100	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Mechanical Strength	IS 366 : 1991, IS 302- 2-3 Clause 21: 2007	Qualitative(0.5 J)
101	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Moisture resistance	IS 366 : 1991, IS 302- 2-3 Clause 15: 2007	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)
102	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Provision for earthing	IS 366 : 1991, IS 302- 2-3 Clause 27: 2007	1 mohm to 0.1ohm
103	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Resistance to heat and fire	IS 366 : 1991, IS 302- 2-3 Clause 30: 2007	Amb to 200 °C
104	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Screws and connections	IS 366 : 1991, IS 302- 2-3 Clause 28: 2007	Qualitative(0.2 Nm to 2.5 Nm)
105	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Stability and mechanical hazards	IS 366 : 1991, IS 302- 2-3 Clause 20: 2007	Qualitative(0 to 15degree)



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106	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Supply connection and external flexible cords	IS 366 : 1991, IS 302- 2-3 Clause 25: 2007	Qualitative(30 N to 100 N,0.1 Nm to 0.35 Nm)
107	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Temperature rise / Heating	IS 366 : 1991, IS 302- 2-3 Clause 11: 2007	Amb to 400 °C
108	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Terminals for external conductors	IS 366 : 1991, IS 302- 2-3 Clause 26: 2007	Qualitative
109	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Radiation, toxicity and similar hazards	IS 366 : 1991, IS 302- 2-3 Clause 32: 2007	Qualitative
110	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron/ Steam Iron	Resistance to rusting	IS 366 : 1991, IS 302- 2-3 Clause 31: 2007	Qualitative
111	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Abnormal operation	IS 367 : 1993, IS 302- 2-15 Clause 19: 2009	Amb to 400 °C, 1 kV to 4 kV
112	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Classification	IS 302-2-15 : 2009, IS 367 Clause 7: 1993	Qualitative



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113	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Clearances, Creepage distances and Solid Insulation	IS 367 : 1993, IS 302- 2-15 Clause 29: 2009	Qualitative(0 – 150 mm)
114	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Components	IS 367 : 1993, IS 302- 2-15 Clause 24: 2009	Qualitative
115	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Construction	IS 367 : 1993, IS 302- 2-15 Clause 22: 2009	Qualitative
116	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Endurance	IS 367 Clause 19: 1993	1 kV to 4 kV
117	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Finish	IS 367 Clause 20: 1993	Qualitative
118	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Internal wiring	IS 367 : 1993, IS 302- 2-15 Clause 23: 2009	1 kV to 4 kV
119	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Leakage current and Electric strength	IS 367 : 1993, IS 302- 2-15 Clause 16: 2009	30 microA to 2 mA, 1 kV to 4 kV



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120	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Leakage current and Electric strength at operating temperature	IS 367 : 1993, IS 302-2-15 Clause 13: 2009	30 microA to 2 mA, 1 kV to 4 kV
121	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Marking and Instructions	IS 302-2-15 : 2009, IS 367 Clause 8: 1993	Qualitative
122	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Mass	IS 367 Clause 12: 1993	Qualitative(Up to 25 kg)
123	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Mechanical Strength	IS 367 : 1993, IS 302-2-15 Clause 21: 2009	Qualitative(0.5 J)
124	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Minimum quantity of water that can be boiled	IS 302-2-15 : 2009, IS 367 Clause 16: 1993	upto 1 hr, upto 1litre
125	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Moisture resistance	IS 367 : 1993, IS 302-2-15 Clause 15: 2009	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)
126	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Overall Dimension	IS 367 Clause 11 : 1993	Qualitative(0.01 mm to 300 mm)



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127	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Power Input and Current	IS 367 : 1993, IS 302-2-15 Clause 10: 2009	100 W to 5000 W
128	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Protection against access to live parts/ Protection against electric shock	IS 367 : 1993, IS 302-2-15 Clause 8: 2009	Qualitative(1 V to 50 V,0 to 20 N)
129	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Provision for earthing	IS 367 : 1993, IS 302-2-15 Clause 27: 2009	1 mohm to 0.1 ohm
130	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Radiation, toxicity and similar hazards	IS 367 : 1993, IS 302-2-15 Clause 32: 2009	Qualitative
131	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Resistance to heat and fire	IS 367 : 1993, IS 302-2-15 Clause 30: 2009	Amb to 200 °C
132	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Resistance to rusting	IS 367 : 1993, IS 302-2-15 Clause 31: 2009	Qualitative
133	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Screws and connections	IS 367 : 1993, IS 302-2-15 Clause 28: 2009	Qualitative(0.2 – 2.5 Nm)



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134	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Stability & Mechanical Hazards	IS 367 : 1993, IS 302-2-15 Clause 20: 2009	Qualitative(0 - 15°)
135	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Supply connection and external flexible cords	IS 367 : 1993, IS 302-2-15 Clause 25: 2009	Qualitative(30 N to 100 N, 0.1 Nm to 0.35 Nm)
136	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Temp. of supporting surface	IS 367 Clause 17: 1993	Qualitative(0.1 degC to 500 degC)
137	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Temperature rise/ Heating	IS 367 : 1993, IS 302-2-15 Clause 11: 2009	Amb to 400 °C
138	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Terminals for external conductors	IS 367 : 1993, IS 302-2-15 Clause 26: 2009	Qualitative
139	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Thermal Efficiency	IS 367 Clause 18: 1993	Qualitative(0.1 degC to 100 degC, 50 ml to 1000 ml)
140	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Time to boil one liter of water	IS 367 Clause 14: 1993	Qualitative(0.1 degC to 100 degC, Up to 1 Hr.)



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141	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Time to boil water capacity	IS 367 Clause 15: 1993	Qualitative(0.1 degC to 100 degC, Up to 1 Hr.)
142	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Transient Overvoltage	IS 367 : 1993, IS 302-2-15 Clause 14: 2009	0.3 kV to 13 kV
143	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Kettle, Jugs and appliances for heating liquids	Water Capacity	IS 367 Clause 13: 1993	Qualitative(0.01 litre to 1 litre)
144	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Abnormal operation	IS 369 : 1992, IS 302-2-30 Clause 19: 2007	Amb to 400 °C, 1 kV to 4 kV
145	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Classification	IS 302-2-30 2007, IS 369 Clause 7: 1992	Qualitative
146	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Clearances, Creepage distances and Solid Insulation	IS 369 : 1992, IS 302-2-30 Clause 29: 2007	Qualitative(0 to 150 mm)
147	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Components	IS 369 : 1992, IS 302-2-30 Clause 24: 2007	Qualitative



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148	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Construction	IS 369 : 1992, IS 302- 2-30 Clause 22: 2007	Qualitative
149	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Internal wiring	IS 369 : 1992, IS 302- 2-30 Clause 23: 2007	1 kV to 4 kV
150	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Leakage current and Electric strength	S 369 : 1992, IS 302-2- 30 Clause 16: 2007	30 microA to 2 mA, 1 kV to 4 kV
151	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Leakage current and Electric strength at operating temperature	IS 369 : 1992, IS 302- 2-30 Clause 13: 2007	30 microA to 2 mA, 1 kV to 4 kV
152	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Marking and Instructions	IS 302-2-30 2007, IS 369 Clause 8: 1992	Qualitative
153	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Mechanical Strength	IS 369 : 1992, IS 302- 2-30 Clause 21: 2007	Qualitative(0.5 J)
154	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Moisture resistance	S 369 : 1992, IS 302-2- 30 Clause 15: 2007	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)



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155	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Power Input and Current	IS 369 : 1992, IS 302- 2-30 Clause 10: 2007	100 W to 5000 W
156	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Protection against access to live parts/ Protection against electric shock	IS 369 : 1992, IS 302- 2-30 Clause 8: 2007	Qualitative(1 V to 50 V,0 to 20 N)
157	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Provision for earthing	IS 369 : 1992, IS 302- 2-30 Clause 27: 2007	1 mohm to 0.1 ohm
158	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Radiation, toxicity and similar hazards	IS 369 : 1992, IS 302- 2-30 Clause 32: 2007	Qualitative
159	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Resistance to heat and fire	IS 369 : 1992, IS 302- 2-30 Clause 30: 2007	Amb to 200 °C
160	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Resistance to rusting	IS 369 : 1992, IS 302- 2-30 Clause 31: 2007	Qualitative
161	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Screws and connections	IS 369 : 1992, IS 302- 2-30 Clause 28: 2007	Qualitative(0.2 Nm to 2.5 Nm)



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162	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Stability and mechanical hazards	IS 369 : 1992, IS 302- 2-30 Clause 20: 2007	Qualitative(0 to 15 degree)
163	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Supply connection and external flexible cords	IS 369 : 1992, IS 302- 2-30 Clause 25: 2007	Qualitative(30 N to 100 N, 0.1 Nm to 0.35 Nm)
164	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Temperature rise/ Heating	IS 369 : 1992, IS 302- 2-30 Clause 11: 2007	Amb to 400 °C
165	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Terminals for external conductors	IS 369 : 1992, IS 302- 2-30 Clause 26: 2007	Qualitative
166	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Dimensions	IS 369 Clause 10: 1992	Qualitative(0 to 3 m)
167	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Endurance test	IS 369 Clause 12: 1992	100 W to 5000 W
168	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Finish	IS 369 Clause 13: 1992	Qualitative



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169	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Temperature rise of surface on which appliance is placed or supported	IS 369 Clause 11: 1992	Qualitative(Amb to 400 °C)
170	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator & Room Heater	Transient Overvoltage	IS 369 : 1992, IS 302- 2-30 Clause 14: 2007	0.3 kV to 13 kV
171	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Abnormal operation	IS 1287 : 1993, IS 302- 2-9 Clause 19: 2009	Amb to 400 °C, 1 kV to 4 kV
172	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Classification	IS 302-2-9 : 2009, IS 1287 Clause 7: 1993	Qualitative
173	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Clearances, Creepage distances and Solid Insulation	IS 1287 : 1993, IS 302- 2-9 Clause 29: 2009	Qualitative(0 – 150 mm)
174	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Components	IS 1287 : 1993, IS 302- 2-9 Clause 24: 2009	Qualitative
175	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Finish	IS 1287 Clause 23: 1993	Qualitative



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176	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Force necessary to operate the bread carriage	IS 1287 Clause 15: 1993	Qualitative(30 N to 100 N)
177	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Functional Provisions	IS 1287 Clause 24: 1993	Qualitative
178	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Internal wiring	IS 1287 : 1993, IS 302- 2-9 Clause 23: 2009	1 kV to 4 kV
179	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Leakage current and Electric strength	IS 1287 : 1993, IS 302- 2-9 Clause 16: 2009	30 microA to 2 mA, 1 kV to 4 kV
180	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Leakage current and Electric strength at operating temperature	IS 1287 : 1993, IS 302- 2-9 Clause 13: 2009	30 microA to 2 mA, 1 kV to 4 kV
181	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Length of flexible cord	IS 1287 Clause 12: 1993	Qualitative(Up to 3 meter)
182	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Marking and Instructions	IS 302-2-9 : 2009, IS 1287 Clause 8: 1993	Qualitative



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183	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Mass of the appliances	Is 1287 Clause 13: 1993	Qualitative(Up to 25 kg)
184	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Mechanical Strength	IS 1287 : 1993, IS 302- 2-9 Clause 21: 2009	Qualitative(0.5 J)
185	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Moisture resistance	IS 1287 : 1993, IS 302- 2-9 Clause 15: 2009	Qualitative(25 % RH to 95 % RH,Amb to 150 °C)
186	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	No. and Dimension of the toasting chambers, toasting surfaces and heating elements	IS 1287 Clause 14: 1993	Qualitative(0.01 mm to 300 mm)
187	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Overall Dimension	IS 1287 Clause 11: 1993	Qualitative(0.01 mm to 300 mm)
188	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Power Input and Current	IS 1287 : 1993, IS 302- 2-9 Clause 10: 2009	100 W to 5000 W
189	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Preparation of bread for toaster	IS 1287 Clause 16: 1993	Qualitative(Up to 1000 mm)



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190	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Protection against access to live parts/ Protection against electric shock	IS 1287 : 1993, IS 302- 2-9 Clause 8: 2009	Qualitative(1 V to 50 V,0 to 20 N)
191	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Provision for earthing	IS 1287 : 1993, IS 302- 2-9 Clause 27: 2009	1 mohm to 0.1 ohm
192	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Radiation, toxicity and similar hazards	IS 1287 : 1993, IS 302- 2-9 Clause 32: 2009	Qualitative
193	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Resistance to heat and fire	IS 1287 : 1993, IS 302- 2-9 Clause 30: 2009	Amb to 200 °C
194	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Resistance to rusting	IS 1287 : 1993, IS 302- 2-9 Clause 31: 2009	Qualitative
195	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Screws and connections	IS 1287 : 1993, IS 302- 2-9 Clause 28: 2009	Qualitative(0.2 Nm to 2.5 Nm)
196	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Stability and mechanical hazards	IS 1287 : 1993, IS 302- 2-9 Clause 20: 2009	Qualitative(0 - 15 deg)



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197	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Supply connection and external flexible cords	IS 1287 : 1993, IS 302- 2-9 Clause 25: 2009	Qualitative(30 N to 100 N, 0.1 Nm to 0.35 Nm)
198	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Temperature rise/ Heating	IS 1287 : 1993, IS 302- 2-9 Clause 11: 2009	Amb to 400 °C
199	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Terminals for external conductors	IS 1287 : 1993, IS 302- 2-9 Clause 26: 2009	Qualitative
200	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Toasting Time	IS 1287 Clause 19: 1993	Qualitative(Up to 1 Hr)
201	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Transient Overvoltage	IS 1287 : 1993, IS 302- 2-9 Clause 14: 2009	0.3 kV to 13 kV
202	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toasters, Electric Grills and Roasters & similar Appliances	Construction	IS 1287 : 1993, IS 302- 2-9 Clause 22: 2009	Qualitative
203	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Accuracy	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC



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204	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Casting Material	IS 9281 (part III) Clause 3: 1981	Qualitative
205	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Concentric angular loading error at 1° inclination	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
206	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Concentric angular loading error at 3° inclination	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
207	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Creep at rated load after 30 minutes	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
208	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Creep recovery after 10 minutes	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
209	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Dimension, weight	IS 9281 (part III) Clause 3: 1981	Upto 60 kg, Upto 3 m



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210	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Drift in no load output (zero drift) after 1 hr. of warm-up	IS 9281 (part III) Clause 3: 1981	0.1 V to 30 V DC
211	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Eccentric loading error at 1 mm of eccentricity	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
212	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Eccentric loading error at 1 mm of eccentricity and 1° inclination	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
213	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Eccentric loading error at 1 mm of eccentricity and 3° inclination	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
214	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Hysteresis	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
215	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Input resistance/impedance	IS 9281 (part III) Clause 3: 1981	10 ohm to 10 Mohm



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216	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Input voltage/ current (max)	IS 9281 (part III) Clause 3: 1981	0.1 V to 30 V DC, Upto 3 A
217	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Instability of RO after warm-up period of 1 hr.	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
218	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Insulation resistance	IS 9281 (part III) Clause 3: 1981	Upto 2 Gohm at 50 V
219	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Manufacturer name & address	IS 9281 (part III) Clause 3: 1981	Qualitative
220	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Mode of Operation	IS 9281 (part III) Clause 3: 1981	Qualitative
221	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Mounting Details & outline drawing	IS 9281 (part III) Clause 3: 1981	Qualitative



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222	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	No load output	IS 9281 (part III) Clause 3: 1981	0.1 V to 30 V DC
223	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Non-linearity	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
224	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Non-repeatability of rated output	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
225	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Non-repeatability of zero output	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg,0.1 V to 30 V DC
226	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Output resistance/ impedance	IS 9281 (part III) Clause 3: 1981	10 ohm to 10 Mohm
227	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Overload ultimate	IS 9281 (part III) clause 3: 1981	160 kg



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228	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Performance Requirements	IS 9281 (part III) Clause 3: 1981	Qualitative
229	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Rated output voltage and Tolerance	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg, 0.1 V to 30 V DC
230	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Surface finish/protection/type sealing	IS 9281 (part III) Clause 3: 1981	Qualitative
231	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Temperature effect on no load output	IS 9281 (part III) Clause 3: 1981	0.1 V to 30 V DC
232	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Temperature effect on rated output	IS 9281 (part III) Clause 3: 1981	1 mg - 80 kg, 0.1 V to 30 V DC
233	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical Load Cells	Overload safe	IS 9281 (part III) Clause 3: 1981	120 kg



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234	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Accuracy	IS 9281 (part III) Clause 3: 1981	1 mg to 60 kg
235	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Dimensions	IS 9281 (part III) Clause 3: 1981	Upto 60 kg, Upto 3m
236	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Display	IS 9281 (part III) Clause 3: 1981	Qualitative
237	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Drift of no load output with temperature	IS 9281 (part III) Clause 3: 1981	1mg to 60 kg
238	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Environmental Condition	IS 9281 (part III) Clause 3: 1981	Qualitative
239	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Number of scale division	IS 9281 (part III) Clause 3: 1981	Qualitative



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240	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Operating Temperature	IS 9281 (part III) Clause 3: 1981	(-) 40°C to 180°C, 20% to 98%
241	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Operating Voltage & frequency	IS 9281 (part III) Clause 3: 1981	Qualitative
242	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Overload indication	IS 9281 (part III) Clause 3: 1981	Qualitative
243	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Recording	IS 9281 (part III) Clause 3: 1981	Qualitative
244	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Resolution	IS 9281 (part III) Clause 3: 1981	Qualitative
245	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Tare provision	IS 9281 (part III) Clause 3: 1981	Qualitative



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246	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Warm up periods	IS 9281 (part III) Clause 3: 1981	Qualitative
247	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Weight	IS 9281 (part III) Clause 3: 1981	Upto 60 kg, Upto 3m
248	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Drift of full scale output with time after 1h	IS 9281 (part III) Clause 3: 1981	1mg to 60 kg
249	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Drift of no load output with time after 1h	IS 9281 (part III) Clause 3: 1981	1mg to 60 kg
250	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Internal calibration	IS 9281 (part III) Clause 3: 1981	Qualitative
251	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Non linearity	IS 9281 (part III) Clause 3: 1981	1 mg to 60 kg



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252	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Rated load	IS 9281 (part III) Clause 3: 1981	Qualitative
253	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Response to full scale	IS 9281 (part III) Clause 3: 1981	Qualitative(1s to 1 hr.)
254	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electronic Weighing Systems	Tolerance on operating voltage	IS 9281 (part III) Clause 3: 1981	Qualitative
255	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Cold Test	IS 9000 (Part 2) Sec 1 to 4 : 1977	(-) 40 °C to ambient
256	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Damp Heat (Cyclic) Test	IS 9000 (Part 5) Sec 1 & 2: 1981	20 % to 95 %, 20 °C to 70 °C
257	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Damp Heat (Steady State) Test	IS 9000 (Part 4): 2008	20 % to 95 %, 20 °C to 70 °C
258	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Degree of Protection Provided by Enclosures (IP Code)	IS / IEC 60529: 2001	Qualitative(IP 1X, IP 2X, IP 3X, IP 4XDust - IP 5X, IP 6X.)



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259	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Degree of Protection Provided by Enclosures (IP Code)	IS / IEC 60529: 2001	Qualitative(Water- IPX1 & IPX2 – 0.5 - 5 mm/min IPX3 & IPX4 – 1 - 50 l/min IPX5 & IPX6 – 10 -125 l/min)
260	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Dry Heat Test	IS 9000 (Part 3) Sec 1 to 5: 1977	Ambient to 180 °C
261	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Shock Test	IS 9000 (Part 7) Sec 1: 2006	Qualitative(Up to 50 'g'2000 kgf (peak))
262	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	All Electrical Product Equipment and Sub assemblies	Vibration Test	IS 9000 (Part 8) : 1981	Qualitative(Frequency: 5 Hz to 2000 Hz, Amplitude: 0.2 mm to 35 mm (pk to pk), Acceleration: 1 'g' to 50 'g', 1000 kgf sine)
263	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Cold Test	IS 9000 (Part 2) Sec 1 to 4 : 1977	(-) 40 °C to ambient
264	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Damp Heat (Cyclic) Test	IS 9000 (Part 5) Sec 1 & 2: 1981	20 % to 95 % @ 20 °C to 70 °C
265	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Damp Heat (Steady State) Test	IS 9000 (Part 4) : 2008	20 % to 95 % @ 20 °C to 70 °C
266	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Degree of Protection Provided by Enclosures (IP Code)	IS / IEC 60529: 2001	Qualitative(IP 1X, IP 2X, IP 3X, IP 4XDust - IP 5X, IP 6X.)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
267	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Degree of Protection Provided by Enclosures (IP Code)	IS / IEC 60529: 2001	Qualitative(Water- IPX1 & IPX2 – 0.5 - 5 mm/min,IPX3 & IPX4 – 1 - 50 l/min, IPX5 & IPX6 – 10 -125 l/min)
268	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Dry Heat Test	IS 9000 (Part 3) Sec 1 to 5: 1977	Ambient to 180 °C
269	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Shock Test	IS 9000 (Part 7) Sec 1: 2006	Qualitative(Up to 50 'g'2000 kgf (peak))
270	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	All Electronic Products/ Components	Vibration Test	IS 9000 (Part 8) : 1981	Qualitative(Frequency: 5 Hz to 2000 Hz, Amplitude: 0.2 mm to 35 mm (pk to pk), Acceleration: 1 'g' to 50 'g', 1000 kgf sine)
271	ELECTRONICS-POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Marking And Instructions- Durability of Marking	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 4.7.16: 2014	Qualitative
272	ELECTRONICS-POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Abnormal Operation and Fault Conditions	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 8.3.1/ 8.3.2: 2014	1°C to 400 °C
273	ELECTRONICS-POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	AC And DC Power Isolation	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.4: 2014	Qualitative



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274	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Clearance, Creepage Distances and Distance Through Insulation	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.7 (RD IEC 60950-1 Cl 2.10.2, 2.10.3,2.10.4,2.10.3.9, 2.10.4.2, 2.10.5.8, 2.10.8.4): 2014	DCV: 0.1 mV to 1000 V,ACV: 10 mV to 750 V,0.02 mm to 200 mm, 0.001 kV to 12 kV, (1.2/50) μ s, 0.5 to 6.5 kV (10/700) μ s , Variable voltage source 175 V / 500 V,150 N \pm 10 N,1.0 \pm 0.1 N (Foil),0.01 kV to 5 kVAC,0.01 kV to 5 kVDC,Pin: 0.25 mm \pm 0.02 mm,80 degree to 85 degree (incl.),10 N \pm 0.5 N
275	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Electric Strength	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 8.2: 2014	0.01 kV to 5 kVAC,0.01 kV to 5 kVDC
276	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Over Current And Earth Fault Protection	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.5: 2014	Qualitative
277	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Protection Against Electric Shock And Energy Hazards	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.1.1, 5.1.2, 5.1.3, 5.1.4: 2014	0.5 N to 300N
278	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Protection of Personnel - Safety Interlocks	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.6: 2014	Qualitative
279	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Protective Earthing and Bonding	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.3: 2014	0 to 32 A,0.01 kV to 5 kV



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280	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Requirement of Auxiliary Circuits	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5: 2014	DCV: 0.1 mV to 1000 V,ACV: 10 mV to 750 V,0.01 A to 30 A, 0.1 kW to 10 kW
281	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA with Linear Load)	Power Interface	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 4.6: 2014	0.1 V to 350 VAC,0.01 A to 30 A,0.1 kW to 10 kW
282	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Battery Location	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.6.4, 7.6.7: 2014	0.01 kV to 5 kV,0.02 mm to 150 mm
283	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Connection To Power	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 6.2: 2014	Qualitative(30 N to 100 N,0.1 Nm to 0.35 Nm,1 count to 9999 counts,)
284	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Connection To Telecommunication Networks	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 9: 2014	0.001 kV to 12 kV (1.2/50) μ s, 0.5 to 6.5 kV (10/700) μ s
285	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Constructions Details	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.4: 2014	0.5 N to 300 N, 0.01 Nm to 0.60 Nm,1 $^{\circ}$ C to 400 $^{\circ}$ C,20 N, 5 mm Dia, 125 $^{\circ}$ C
286	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Enclosure	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.1: 2014	Qualitative
287	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	General Provision For Earth Leakage	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 8.1: 2014	0.1 microA to 20 mA
288	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Mechanical Strength	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.3: 2014	Qualitative(0.5 N to 300 N ,500 g, 50 mm dia, 1.3 m.0.1 degC to 100 degC)



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289	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Resistance To Fire	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.5: 2014	20 °C to 960 °C
290	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Stability	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.2: 2014	Qualitative(1degree to 20 degree0.5 N to 300 N)
291	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Temperature Rise	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.7: 2014	1°C to 400 °C,20 N, 5 mm Dia, 125°C
292	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Wiring Terminal For External Power Conductor	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 6.3: 2014	0.02 mm to 200 mm0.001 mm to 25 mm
293	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Invertors of Rating = 5 kVA (with Linear Load)	Wiring, Connections and Supply	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 6.1: 2014	Qualitative
294	ELECTRONICS- SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Antenna coaxial sockets mounted on the apparatus	IEC 60065 : 2014, IS 616 Clause 12.5: 2017	Qualitative(0.5 J0.5 N to 300 N)



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295	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Apparatus Containing Coin / Button cell Batteries -Stress Relief Test	IEC 60065 : 2014, IS 616 Clause 12.7.3.2: 2017	Qualitative(25 degC to 100 degC)
296	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Batteries	IEC 60065 : 2014, IS 616 Clause 14.11: 2017	Qualitative(DCV: 0.1 mV to 1000 V,ACV: 10 mV to 750 V,25 degC to 100 degC,)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
297	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Battery Replacement Tests	IEC 60065 : 2014, IS 616 Clause 12.7.3.3: 2017	Qualitative(0.1 Nm to 5 Nm, 0.02 mm to 6 mm)
298	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Clearances and Creepage distances	IEC 60065 : 2014, IS 616 Clause 13: 2017	0.02 mm to 200 mm



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
299	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Compliance	IEC 60065 : 2014, IS 616 Clause 12.7.4: 2017	Qualitative(0.5 N to 300 N)
300	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Constructural requirements- Hygroscopic materials	IEC 60065 : 2014, IS 616 Clause 8.3: 2017	Qualitative((-) 20°C to 80 °C10% to 95%)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
301	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Crush Test	IEC 60065 : 2014, IS 616 Clause 12.7.3.6: 2017	Qualitative(330 N \pm 5Nwith flat surface 102 mm x 250 mm)
302	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Determination of Hazardous Live Parts and Accessible parts	IEC 60065 : 2014, IS 616 Clause 9.1.1.2: 2017	Qualitative(DCV: 0.1 mV to 1000 V,ACV: 10 mV to 750 V,DC :1 microA to 10 A,AC: 30 microA to 10 A,0.1 microA to 20 mA)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
303	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Devices forming a part of the mains plug	IEC 60065 : 2014, IS 616 Clause 15.4: 2017	Qualitative(0.01 Nm to 0.60 Nm)
304	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Dielectric strength	IEC 60065 : 2014, IS 616 Clause 10.4: 2017	Qualitative(0.01 kV to 5 kVAC,0.01 kV to 5 kVDC)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
305	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Disconnection from the Mains and withdrawal of main plug	IEC 60065 : 2014, IS 616 Clause 8.18, 9.1.6: 2017	5 ns to 50 s
306	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Drawers	IEC 60065 : 2014, IS 616 Clause 12.4: 2017	Qualitative(0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
307	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Drop Test	IEC 60065 : 2014, IS 616 Clause 12.7.3.4: 2017	Qualitative
308	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	External forces, windows covers,Internal forces	IEC 60065 : 2014, IS 616 Clause 8.13, 8.15: 2017	Qualitative(0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
309	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Fault conditions tests- Electric Shock Hazard	IEC 60065 : 2014, IS 616 Clause 11.1: 2017	DCV: 0.1 mV to 1000 V,ACV: 10 mV to 750 V
310	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Fixing of actuating elements	IEC 60065 : 2014, IS 616 Clause 12.2: 2017	Qualitative(0.1 to 5 Nm,0.02 mm to 6 mm,0.5 N to 300 N)



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311	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Heating	IEC 60065 : 2014, IS 616 Clause 11.2: 2017	1 °C to 400 °C
312	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Heating under Normal Operating Conditions	IEC 60065 : 2014, IS 616 Clause 7.1: 2017	1 °C to 400 °C



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
313	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Humidity treatment	IEC 60065 : 2014, IS 616 Clause 10.3: 2017	Qualitative((-) 40°C to 180 °C10% to 95%)
314	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Impact Test	IEC 60065 : 2014, IS 616 Clause 12.7.3.5: 2017	Qualitative(500 g50 mm dia1.3 m)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
315	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Insulation resistance	IEC 60065 : 2014, IS 616 Clause 10.4: 2017	0.1 Mohm to 2 Gohm (50 V to 1 kV)
316	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Ionizing Radiation	IEC 60065 : 2014, IS 616 Clause 6.1: 2017	Qualitative(1 microR/h to 10000 microR/h)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
317	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Marking and instructions	IEC 60065 : 2014, IS 616 Clause 5.0: 2017	Qualitative(1 s to 60 s)
318	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Mechanical Strength - Drop test	IEC 60065 : 2014, IS 616 Clause 12.1.5: 2017	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
319	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Mechanical Strength –Impact test	IEC 60065 : 2014, IS 616 Clause 12.1.4: 2017	Qualitative(500 g50 mm dia1.3 m0.5 J)
320	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Mechanical strength of glass-Fragmentation Test	IEC 60065 : 2014, IS 616 Clause 19.6.2: 2017	Qualitative



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321	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Mechanical Strength –Stress Relief	IEC 60065 : 2014, IS 616 Clause 12.1.6: 2017	Qualitative(25 degC to 100 degC)
322	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Mechanical strength- Bump Test	IEC 60065 : 2014, IS 616 Clause 12.1.2: 2017	Qualitative(Drop Height : 5 cm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
323	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Mechanical Strength-Vibration Test	IEC 60065 : 2014, IS 616 Clause 12.1.3, 8.17 (b): 2017	Qualitative(Freq.: 5 to 2000 Hz,Amp.: 0.2 to 35 mm (pk to pk),Accl.: 1 'g' to 50 'g'1000 kgf sine)
324	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Non separable thin sheet material	IEC 60065 : 2014, IS 616 Clause 8.21: 2017	Qualitative(Upto 160 N,150 ± 10 N,1.0 ± 0.1 N (Foil),0.01 kV to 5 kVAC,0.01 kV to 5 kVDC)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
325	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Normal Operating Conditions	IEC 60065 : 2014, IS 616 Clause 4.2: 2017	0.1 V to 350 VAC, 0.01 A to 30 A, 1 W to 10 kW
326	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Physical securement of Telescoping or rod antennas	IEC 60065 : 2014, IS 616 Clause 12.6.2: 2017	Qualitative(0.1 Nm to 5 Nm,0.02 mm to 6 mm,0.5 N to 300 N,0.001 mm to 25 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
327	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Pink Noise	IEC 60065 : 2014, IS 616 Clause 4.1.6: 2017	Qualitative(20 Hz to 20 kHz)
328	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Protection against Electric shock- Accessibility	IEC 60065 : 2014, IS 616 Clause 9.1.1.3 , 9.2: 2017	Qualitative(0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
329	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Protection against Electric shock-Opening in Enclosures	IEC 60065 : 2014, IS 616 Clause 9.1.3: 2017	Qualitative(4 mm to 100 mm)
330	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Remote control devices held in hand - Drop Test	IEC 60065 : 2014, IS 616 Clause 12.3: 2017	Qualitative(500 mm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
331	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Resistance to external forces	IEC 60065 : 2014, IS 616 Clause 9.1.7: 2017	Qualitative(0.5 N to 300 N)
332	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Resistance to fire (Glow wire Test)	IEC 60065 : 2014, IS 616 Clause 20 Annex G: 2017	Qualitative(300 °C to 960 °C)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
333	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Resistance to fire(Needle Flame Test)	IEC 60065 : 2014, IS 616 Clause 20 Annex G: 2017	Qualitative(25 °C to 700 °C Upto 35 mm)
334	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Stability and mechanical hazards	IEC 60065 : 2014, IS 616 Clause 19.1, 19.2: 2017	Qualitative(1 deg to 360 deg, 1 deg to 15 deg, 0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
335	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Strain Relief	IEC 60065 : 2014, IS 616 Clause 16.5: 2017	Qualitative(30 N to 100 N,0.1 Nm to 0.35 Nm,0 to 150 mm,0 – 100 count)
336	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Surge Test	IEC 60065 : 2014, IS 616 Clause 10.2: 2017	Qualitative(1kV to 10 kV)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
337	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Temperature Measurements	IEC 60065 : 2014, IS 616 Clause 4.1.4: 2017	1 °C to 400 °C
338	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Terminals- Provision for Protective Earthing	IEC 60065 : 2014, IS 616 Clause 15.2: 2017	0.001 ohm to 1 ohm (25A)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
339	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Torque on Screw Terminals	IEC 60065 : 2014, IS 616 Clause 17.1: 2017	Qualitative(0.1 Nm to 5 Nm0.02 mm to 6 mm)
340	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Torque Test on Covers	IEC 60065 : 2014, IS 616 Clause 17.7: 2017	Qualitative(0.1 N to 10 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
341	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Transient voltages	IEC 60065 : 2014, IS 616 Clause 13.3.4, J.6: 2017	Qualitative(1 kV to 12 kV)
342	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Wall or ceiling mounting	IEC 60065 : 2014, IS 616 Clause 19.7: 2017	Qualitative(0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
343	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Heat resistance of insulating material	IEC 60065 : 2014, IS 616 Clause 7.2: 2017	Qualitative(upto 250 °C)
344	ELECTRONICS-SAFETY TESTING FACILITY	Electronics Audio, Video and Similar Electronic Appliances & Components(Electronic Games (Video); Plasma/ LCD/ LED Television; Optical Disc Players with built in amplifier; Amplifiers; Electronic Musical Systems; Set Top Box; Power Adaptors for Audio, Video and Similar Electronic Apparatus)	Protection against splashing water	IEC 60065 : 2014, IS/IEC 60529 : 2001, IS 616 Annexure A: 2017	Qualitative(Water-IPX1, IPX2, IPX3, IPX4, IPX5, IPX6)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
345	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Abnormal Operating and Fault Conditions	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 5.3: 2010	Qualitative(1 °C to 400 °C)



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346	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Abrasion Resistance Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.10.8.4: 2010	Qualitative(Pin: 0.25 mm \pm 0.02 mm,80 deg to 85 deg (incl),10 N \pm 0.5 N)



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347	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Adhesive for constructional purposes	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.6.5: 2010	Qualitative(-40 °C to 180 °C 20 % to 95 %)



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348	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Clearances, Creepage Distances and Distances Through Insulation	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.10.3 & 2.10.4: 2010	0.02 mm to 200 mm



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349	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Connection of TNV circuits to other circuits	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.3.4: 2010	Qualitative(5000 ohm +/- 2%)



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350	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Connection to Cable Distribution Systems – Impulse Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 7.4.3: 2010	Qualitative(0.5 kV to 6.5 kV)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
351	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Connection to Cable Distribution Systems – Voltage Surge Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 7.4.2: 2010	Qualitative(0.01 kV to 10 kV)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
352	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Connections To Mains Supply- Cord Anchorages and Strain Relief	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 3.2.6: 2010	Qualitative(30 N to 100 N0.1 Nm to 0.35 Nm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
353	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Connections To Mains Supply- cord guards	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 3.2.8: 2010	Qualitative(1 count to 9999 counts)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
354	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Design and Construction - Handles and manual controls	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.3.2: 2010	Qualitative(0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
355	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Determination of working voltage	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.10.2: 2010	DCV: 0.1 mV to 1000 VACV: 10 mV to 750 V



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
356	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Direct plug-in equipment	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.3.6: 2010	Qualitative(0.01 Nm to 0.60 Nm)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
357	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Discharge of Capacitors	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.1.1.7: 2010	5 ns to 50 s,2 mV/div to 10 V/div



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
358	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Electrical Insulation	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.9.2: 2010	- 20°C to 80 °C, 10 % to 95 %, 0.1 Mohm to 2 Gohm (50 V to 1 kV)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
359	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Energy Hazards	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.1.1.5: 2010	Qualitative(DCV: 0.1 mV to 1000V,ACV: 10 mV to 750V,DC :1 microA to 10 A,AC: 30 microA to 10 A,Upto 240 VA)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
360	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Ionizing Radiation	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.3.13.2: 2010	Qualitative(1 microR/h - 10000 microR/h)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
361	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Limited Current Circuits	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.4: 2010	0.1 V to 350 VAC,0.01 A to 30 A, 1 kW to 10 kW



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
362	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Limited current circuits, limit values	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.4.2: 2010	Qualitative(2000 ohm +/- 10%)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
363	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Limited Power Sources	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.5: 2010	DCV: 0.1 mV to 1000V,ACV: 10 mV to 750V,AC Power : 1 kW to 10 kW



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364	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Marking And Instructions	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 1.7: 2010	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
365	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Material Group and Comparative Tracking Index	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.10.4.2: 2010	Qualitative(Variable voltage source 175 V/ 500 V)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
366	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Measurement of transient levels	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.10.3.9: 2010	Qualitative(0.001 kV to 12 kV (1.2/50) μ s, 0.5 kV to 6.5 kV (10/700) μ s)



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367	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Mechanical Strength – Drop Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.2.6: 2010	Qualitative



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368	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Mechanical Strength – Stress Relief Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.2.7: 2010	Qualitative(0.1 degC to 100 degC)



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369	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Mechanical Strength -Impact Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.2.5: 2010	Qualitative(500 g50 mm dia1.3 m)



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370	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Mechanical Strength - Steady Force Test	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.2.2, 4.2.3, 4.2.4: 2010	Qualitative(0.5 N to 300 N)



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371	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Non separable thin sheet material- Annexure AA	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.10.5.8: 2010	Qualitative(150 N \pm 10 N, 1.0 N \pm 0.1 N (Foil), 0.01 kV to 5 kVAC, 0.01 kV to 5 kVDC)



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372	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Openings In Enclosures	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.6.1, 4.6.3, 4.6.4, 4.6.5: 2010	Qualitative(0.02 mm to 150 mm,-40 °C to 180 °C,20 % to 95 %)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
373	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Over Currents and Earth Fault Protection In Primary Circuits	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.7: 2010	Qualitative((Visual Inspection))



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
374	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Protection Against Hazardous Moving Parts	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.4: 2010	Qualitative(0.5 N to 300 N)



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375	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Protection against mechanical damage	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 3.2.7: 2010	Qualitative



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
376	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Protection from Hazards-Access to energized parts	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.1.1.1: 2010	Qualitative(0.5 N to 300 N)



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377	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Protection from Over Voltages	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 6.2.2.2: 2010	Qualitative(0.001 kV to 12 kV)



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378	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Protection from Overheating	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 6.3: 2010	1 °C to 400 °C



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
379	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Provisions for Earthing and Bonding	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.6.3.4: 2010	upto 2 ohm (32 A),0.001 mm to 25 mm,0.02 mm to 150 mm



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
380	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Resistance to abnormal heat	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.5.5: 2010	Qualitative(20 N5 mm Dia 125 °C)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
381	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Resistance to Fire(Glow wire Test)	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.7: 2010	Qualitative(20 °C to 960 °C)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
382	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Resistance to Fire(Needle Flame Test)	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.7: 2010	Qualitative(25 °C to 700 °C)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
383	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	SELV Circuits	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.2: 2010	DCV: 0.1 mV to 1000VACV: 10 mV to 750V



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
384	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Stability	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.1: 2010	Qualitative(1 deg to 20 deg0.5 N to 300 N)



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385	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Stability	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.1: 2010	Qualitative(Test tool 800 N with flat surface 12.5cm x 20 cm)



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386	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Stability of OperationAnnexure K.6	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 5.3.8: 2010	Qualitative(20 °C to 80 °C,10 % to 95 %,Freq.: 5 Hz to 2000 Hz,Amp.: 0.2 to 35 mm (pk to pk),Accl: 1 'g' to 50 'g'1000 kgf sine)



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387	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Test for operating voltages generated externally	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.3.5: 2010	0.1 V to 350 VAC, 0.01 A to 30 A, 1 kW to 10 kW



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
388	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Thermal Requirements	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.5: 2010	1°C to 400 °C



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389	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	TNV Circuits	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 2.3: 2010	DCV: 0.1 mV to 1000VACV: 10 mV to 750V



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390	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Touch Current and Protective Conductor Current	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 5.1: 2010	0.1 microA to 20 mA



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391	ELECTRONICS- SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Wiring, Connections and Supply	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 3.1: 2010	Qualitative



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392	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Components-Thermal Control, TransformerInterconnecting Cable	IEC 60950-1: 2005, IS 13252 (Part 1) Clause. 1.5.3, 1.5.4,1.5.5): 2010	Qualitative



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Validity 01/04/2019 to 31/03/2021 Last Amended on 29/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
393	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Electrical Strength	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 5.2: 2010	Qualitative(0.01 kV to 5 kVAC, 0.01 kV to 5 kVDC)



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name NATIONAL RESEARCH AND TECHNOLOGY CONSORTIUM (C-ACT),
DEPARTMENT OF INDUSTRIES COMPLEX, SECTOR-1, PARWANOO, SOLAN,
HIMACHAL PRADESH , INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5689 Page No. : 118 / 121

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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
394	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Power Interface-Input Current	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 1.6.2: 2010	0.1 V to 350 VAC,0.01 A to 30 A,1 kW to 10 kW



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
395	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Protection from Hazards in the Equipment	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 6.1: 2010	Qualitative(0.01 kV to 5 kVAC,0.01 kV to 5 kVDC,0.1 Mohm to 2 Gohm (50 V to 1 kV))



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
396	ELECTRONICS-SAFETY TESTING FACILITY	Information Technology Equipment Including Electrical Business Equipment(Laptop/ Notebook/ Tablets; Visual Display Units; Video Monitors; Printers; Plotters; Scanners; Wireless Keyboards; Telephone Answering Machines; Automatic Data Processing Machine; Power Adaptors for IT Equipment; Mobile Phones; Cash Registers; Point of Sale Terminals; Copying Machine/ Duplicators; Smart Card Readers; Passport Reader; Mail Processing Machines/ Postage Machines/ Franking Machines; Power Banks for use in Portable Applications)	Wall or ceiling mounted equipment	IEC 60950-1: 2005, IS 13252 (Part 1) Clause 4.2.10: 2010	Qualitative(0.5 N to 300 N)



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Site Facility					
1	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Marking And Instructions- Durability of Marking	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 4.7.16: 2014	Qualitative
2	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	AC And DC Power Isolation	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.4: 2014	Qualitative
3	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Over Current And Earth Fault Protection	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.5: 2014	Qualitative
4	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Protection Against Electric Shock And Energy Hazards	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.1.1, 5.1.2, 5.1.3, 5.1.4: 2014	0.5 N to 300N
5	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Protective Earthing and Bonding	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 5.3: 2014	0 to 32 A,0.01 kV to 5 kV
6	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA with Linear Load)	Power Interface	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 4.6: 2014	0.1 V to 350 VAC,0.01 A to 30 A,0.1 kW to 10 kW
7	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	General Provision For Earth Leakage	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 8.1: 2014	0.1 microA to 20 mA
8	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Temperature Rise	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 7.7: 2014	1°C to 400 °C,20 N, 5 mm Dia, 125°C
9	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS/ Inverters of Rating = 5 kVA (with Linear Load)	Wiring, Connections and Supply	IEC 62040-1 : 2008, IS 16242 (Part 1) Clause 6.1: 2014	Qualitative