



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	MARQUIS TECHNOLOGIES PRIVATE LIMITED, A-43, SECTOR 67, NOIDA, UTTAR PRADESH, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-11960	<b>Page No</b>	1 of 227
<b>Validity</b>	24/07/2023 to 23/07/2025	<b>Last Amended on</b>	22/06/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Testing				
1	ELECTRICAL- CELLS & BATTERIES	Electrically propelled road vehicles — Dimensions and designation of secondary lithium-ion cells	Cylindrical cells	IS 16827 Cl. 7.2
2	ELECTRICAL- CELLS & BATTERIES	Electrically propelled road vehicles — Dimensions and designation of secondary lithium-ion cells	Designation of cell	IS 16827 Cl. 5
3	ELECTRICAL- CELLS & BATTERIES	Electrically propelled road vehicles — Dimensions and designation of secondary lithium-ion cells	Pouch cells	IS 16827 Cl. 7.4
4	ELECTRICAL- CELLS & BATTERIES	Electrically propelled road vehicles — Dimensions and designation of secondary lithium-ion cells	Prismatic Cells	IS 16827 Cl. 7.3
5	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Abnormal Charging Test	UL 2054 Cl. No. 10
6	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Abusive Overcharge Test	UL 2054 Cl. No. 11
7	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	BATTERY ENCLOSURE TESTS	UL 2054 Cl. No. 18
8	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Crush	UL 2054 Cl. No. 14
9	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Drop Impact	UL 2054 Cl. No. 21
10	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Forced-Discharge Test	UL 2054 Cl. No. 12
11	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Heating	UL 2054 Cl. No. 23
12	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Impact	UL 2054 Cl. No. 15
13	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Limited Power Source Test	UL 2054 Cl. No. 13
14	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Mold Stress Relief Test	UL 2054 Cl. No. 20
15	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	N Steady Force Test	UL 2054 Cl. No. 19 250
16	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Shock	UL 2054 Cl. No. 16



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17	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Short-Circuit	UL 2054 Cl. No. 9
18	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Temperature Cycling Test	UL 2054 Cl. No. 24
19	ELECTRICAL- CELLS & BATTERIES	Household and Commercial Batteries	Vibration	UL 2054 Cl. No. 17
20	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Capacity (5 h Rate) Test	IS 14257 Cl. 9.3.4
21	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Charge Acceptance Test	IS 14257 Cl. 9.3.8
22	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Cold Cranking Performance Test (CCA)	IS 14257 Cl. 9.3.6
23	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	High Rate Discharge Test	IS 14257 Cl. 9.3.5
24	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Test for Dry-Charged Battery	IS 14257 Cl. 9.3.18
25	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Vibration Resistance Test	IS 14257 Cl. 9.3.15
26	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Abnormal Charging Test	UL 1642 Cl. No. 11
27	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Charge-discharge cycling	UL 1642 Cl.No. 7.2
28	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Crush Test	UL 1642 Cl. No. 13
29	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Discharge	UL 1642 Cl. No. 7.1
30	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Forced-Discharge Test	UL 1642 Cl. No. 12
31	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Heating Test	UL 1642 Cl. No. 17
32	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Impact Test	UL 1642 Cl. No. 14



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33	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Important Test Considerations	UL 1642 Cl. 8
34	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Low Pressure (Altitude Simulation) Test	UL 1642 Cl. No. 19
35	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Shock Test	UL 1642 Cl. No. 15
36	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Short-Circuit Test	UL 1642 Cl. No. 10
37	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Temperature Cycling Test	UL 1642 Cl. No. 18
38	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Temperature Measurements	UL 1642 Cl. 9
39	ELECTRICAL- CELLS & BATTERIES	Lithium Batteries	Vibration Test	UL 1642 Cl. No. 16
40	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	Altitude simulation	UN 38.3 Cl.38.3.4.1 Test T.1
41	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	External Short Circuit	UN 38.3 Cl.38.3.4.5 Test T.5
42	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	Forced Discharge	UN 38.3 Cl.38.3.4.8 Test T.8
43	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	Overcharge	UN 38.3 Cl.38.3.4.7 Test T.7
44	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	Shock	UN 38.3 Cl.38.3.4.4 Test T.4
45	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	Thermal test	UN 38.3 Cl.38.3.4.2 Test T.2
46	ELECTRICAL- CELLS & BATTERIES	Manual of Tests and Criteria	Vibration	UN 38.3 Cl.38.3.4.3 Test T.3
47	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Excessive temperature rise	Clause 6.2.2 IS 6303 PART 4 /IEC 60086-4
48	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	predischage	Clause 6.1.5 IS 6303 PART 4 /IEC 60086-4





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49	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	short circuit	Clause 6.2.1 IS 6303 PART 4 /IEC 60086-4
50	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Free fall	Clause 6.5.6 IS 6303 PART 4 /IEC 60086-4 (Test J )
51	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Impact	Clause 6.5.2 IS 6303 PART 4 /IEC 60086-4 (Test F )
52	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Abnormal Charging	Clause 6.5.5 IS 6303 PART 4 /IEC 60086-4 (Test I )
53	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Altitude	IS 6303 PART 4 /IEC 60086-4 (Test A )
54	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	External Short Circuit	Clause 6.5.1 IS 6303 PART 4 /IEC 60086-4 (Test E )
55	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Forced Discharge	Clause 6.5.4 IS 6303 PART 4 /IEC 60086-4 (Test H )
56	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Incorrect installation	Clause 6.5.8 IS 6303 PART 4 /IEC 60086-4 (Test L )
57	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Over discharge	Clause 6.5.9 IS 6303 PART 4 /IEC 60086-4 ( Test M)
58	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Shock	Clause 6.4.4 IS 6303 PART 4 /IEC 60086-4 (Test D )
59	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Thermal abuse	Clause 6.5.7 IS 6303 PART 4 /IEC 60086-4 (Test K )
60	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Thermal Cycling	Clause 6.4.2 IS 6303 PART 4 /IEC 60086-4 (Test B )
61	ELECTRICAL- CELLS & BATTERIES	Primary Batteries: Part 4 Safety of Lithium Batteries	Vibration	Clause 6.4.3 IS 6303 PART 4 /IEC 60086-4 (Test C )
62	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Vibration, shock and bump test	IEC 60571 (Cl. No.12.2.12.)
63	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Cold start test	IEC 60571 (Cl. No.12.2.4)
64	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Damp heat test, cyclic	IEC 60571 (Cl. No.12.2.)



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65	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Dry heat test	IEC 60571 (Cl. No.12.2.5)
66	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Equipment stress screening	IEC 60571 (Cl. No12.2.14.)
67	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Insulation test	IEC 60571 (Cl. No12.2.10.)
68	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Low temperature storage test	IEC 60571 (Cl. No12.2.15.)
69	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Performance test	IEC 60571 (Cl. No.12.2.3)
70	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Salt mist test	IEC 60571 (Cl. No12.2.11.)
71	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Supply overvoltage	IEC 60571 (Cl. No12.2.7 .)
72	ELECTRICAL- CELLS & BATTERIES	Railway applications - Electronic equipment used on rolling stock	Visual inspection	IEC 60571 (Cl. No. 12.2.2)
73	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 3: Prismatic and cylindrical lithium secondary cells, and batteries made from them	Charging procedure for test purposes	IS 16047 -3 Cl. no. 7.2
74	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Small cell and battery safety information	Cl.8.1 of IEC 62133-2
75	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Design recommendation	Cl.5.6.2 of IEC 62133-2
76	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Crush(cells)	Cl.7.3.5 of IEC 62133-2
77	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Mechanical protection for cells and components of batteries	Cl.5.6.3 of IEC 62133-2
78	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Over-charging of battery	Cl.7.3.6 of IEC 62133-2
79	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Mechanical test(batteries)	Cl.7.3.8 of IEC 62133-2





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80	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Insulation and wiring	Cl.5.2 of IEC 62133-2
81	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Intended use	Cl.7.2 of IEC 62133-2
82	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	General safety considerations	Cl.5 of IEC 62133-2
83	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Venting	Cl.5.3 of IEC 62133-2
84	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	External short circuit(cell)	Cl.7.3.1 of IEC 62133-2
85	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Type test and sample size	Cl.6 of IEC 62133-2
86	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Packaging	Cl.10 of IEC 62133-2
87	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Quality plan	Cl.5.7 of IEC 62133-2
88	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Temperature, voltage and current management	Cl.5.4 of IEC 62133-2
89	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Forced discharge(cells)	Cl.7.3.7 of IEC 62133-2
90	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Design evaluation-forced internal short-circuit(cells)	Cl.7.3.9 of IEC 62133-2
91	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Thermal abuse(cells)	Cl.7.3.4 of IEC 62133-2
92	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Reasonably foreseeable misuse	Cl.7.3 of IEC 62133-2
93	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Other information	Cl.9.4 of IEC 62133-2
94	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Terminal contacts	Cl.5.5 of IEC 62133-2
95	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Specific requirements and tests	Cl.7 of IEC 62133-2



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96	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	External short circuit(battery)	Cl.7.3.2 of IEC 62133-2
97	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Information for safety	Cl.8 of IEC 62133-2
98	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Vibration	Cl.7.3.8.1 of IEC 62133-2
99	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Mechanical shock	Cl.7.3.8.2 of IEC 62133-2
100	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (lithium systems)	Charging procedure for test purpose	Cl.7.1 of IEC 62133-2
101	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Marking	Cl.9 of IEC 62133-2
102	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Free fall	Cl.7.3.3 of IEC 62133-2
103	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Parameter measurement tolerances	Cl.4 of IEC 62133-2
104	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Assembly of cells into batteries	Cl.5.6 of IS 16046-2
105	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Battery marking	Cl.9.2 of IS 16046-2
106	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Battery safety components	Cl.5.8 of IEC 62133-2
107	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Battery safety components	Cl.5.8 of IS 16046-2
108	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Case stress at high ambient temperature (batteries)	Cl.7.2.2 of IS 16046-2
109	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Caution for ingestion of small cells and batteries	Cl.9.3 of IEC 62133-2
110	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Caution for ingestion of small cells and batteries	Cl.9.3 of IS 16046-2
111	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Cell marking	Cl.9.1 of IEC 62133-2





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112	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Cell marking	Cl.9.1 of IS 16046-2
113	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Charging procedure for test purpose	Cl.7.1 of IS 16046-2
114	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Continuous low-rate charging at constant voltage(cells)	Cl.7.2.1 of IEC 62133-2
115	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Continuous low-rate charging at constant voltage(cells)	Cl.7.2.1 of IS 16046-2
116	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Crush(cells)	Cl.7.3.5 of IS 16046-2
117	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Design evaluation-forced internal short-circuit(cells)	Cl.7.3.9 of IS 16046-2
118	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Design recommendation	Cl.5.6.2 of IS 16046-2
119	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	External short circuit (battery)	Cl.7.3.2 of IS 16046-2
120	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	External short circuit (cell)	Cl.7.3.1 of IS 16046-2
121	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Forced discharge(cells)	Cl.7.3.7 of IS 16046-2
122	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Free fall	Cl.7.3.3 of IS 16046-2
123	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	General safety considerations	Cl.5 of IS 16046-2
124	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Information for safety	Cl.8 of IS 16046-2
125	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Insulation and wiring	Cl.5.2 of IS 16046-2
126	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Intended use	Cl.7.2 of IS 16046-2
127	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Marking	Cl.9 of IS 16046-2





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128	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Mechanical protection for cells and components of batteries	Cl.5.6.3 of IS 16046-2
129	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Mechanical shock	Cl.7.3.8.2 of IS 16046-2
130	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Mechanical test(batteries)	Cl.7.3.8 of IS 16046-2
131	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Other information	Cl.9.4 of IS 16046-2
132	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Over-charging of battery	Cl.7.3.6 of IS 16046-2
133	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Packaging	Cl.10 of IS 16046-2
134	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Parameter measurement tolerances	Cl.4 of IS 16046-2
135	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Quality plan	Cl.5.7 of IS 16046-2
136	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Reasonably foreseeable misuse	Cl.7.3 of IS 16046-2
137	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Small cell and battery safety information	Cl.8.2 of IS 16046-2
138	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Specific requirements and tests	Cl.7 of IS 16046-2
139	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Temperature, voltage and current management	Cl.5.4 of IS 16046-2
140	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Terminal contacts	Cl.5.5 of IS 16046-2
141	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Thermal abuse(cells)	Cl.7.3.4 of IS 16046-2
142	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Type test and sample size	Cl.6 of IS 16046-2
143	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Venting	Cl.5.3 of IS 16046-2



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144	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Lithium systems)	Vibration	Cl.7.3.8.1 of IS 16046-2
145	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Reasonably foreseeable misuse	Cl.7.3 of IEC 62133-1
146	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Venting	Cl.5.3 of IEC 62133-1
147	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Specific requirements and tests	Cl.7 of IEC 62133-1
148	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Assembly of cells into batteries	Cl.5.6 of IEC 62133-2
149	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Charging procedure for test purpose	Cl.7.1 of IEC 62133-1
150	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Quality plan	Cl.5.7 of IEC 62133-1
151	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Type test and sample size	Cl.6 of IEC 62133-1
152	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Temperature, voltage and current management	Cl.5.4 of IEC 62133-1
153	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	External short circuit	Cl.7.3.2 of IEC 62133-1
154	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Other information	Cl.9.4 of IEC 62133-1
155	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	vibration	Cl.7.2.2 of IEC 62133-1
156	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Thermal abuse	Cl.7.3.5 of IEC 62133-1
157	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Information for safety	Cl.8 of IEC 62133-1
158	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Terminal contacts	Cl.5.5 of IEC 62133-1
159	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Small cell and battery safety information	Cl.8.1 of IEC 62133-1





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160	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Mechanical shock(crash hazard)	Cl.7.3.4 of IEC 62133-1
161	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Incorrect installation(cells)	Cl.7.3.1 of IEC 62133-1
162	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Crushing of cells	Cl.7.3.6 of IEC 62133-1
163	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Case stress at high ambient temprature(batteries)	Cl.7.2.2 of IEC 62133-2
164	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Low Pressure(cells)	Cl.7.3.7 of IEC 62133-1
165	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Battery marking	Cl.9.2 of IEC 62133-2
166	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Free fall	Cl.7.3.3 of IEC 62133-1
167	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Assembly of cells into batteries	Cl.5.6 of IS 16046-1
168	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Assembly of cells into batteries	Cl.5.6 of IEC 62133-1
169	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Battery marking	Cl.9.2 of IS 16046-1
170	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Battery marking	Cl.9.2 of IEC 62133-1
171	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Case stress at high ambient temperature (batteries)	Cl.7.2.3 of IS 16046-1
172	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Case stress at high ambient temprature(batteries)	Cl.7.2.3 of IEC 62133-1
173	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Caution for ingestion of small cells and batteries	Cl.9.3 of IS 16046-1
174	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Caution for ingestion of small cells and batteries	Cl.9.3 of IEC 62133-1



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175	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Cell marking	Cl.9.1 of IS 16046-1
176	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Cell marking	Cl.9.1 of IEC 62133-1
177	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Charging procedure for test purposes	Cl.7.1 of IS 16046-1
178	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Continuous low-rate charging (cells)	Cl.7.2.1 of IS 16046-1
179	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Continuous low-rate charging(cells)	Cl.7.2.1 of IEC 62133-1
180	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Crushing of cells	Cl.7.3.6 of IS 16046-1
181	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	External short circuit	Cl.7.3.2 of IS 16046-1
182	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Forced discharge (cells)	Cl.7.3.9 of IS 16046-1
183	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Forced discharge(cells)	Cl.7.3.9 of IEC 62133-1
184	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Free fall	Cl.7.3.3 of IS 16046-1
185	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	General safety considerations	Cl.5 of IEC 62133-1
186	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	General safety considerations	Cl.5 of IS 16046-1
187	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Incorrect installation (cells)	Cl.7.3.1 of IS 16046-1
188	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Information for safety	Cl.8 of IS 16046-1
189	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Insulation and wiring	Cl.5.2 of IEC 62133-1
190	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Insulation and wiring	Cl.5.2 of IS 16046-1





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191	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Intended use	Cl.7.2 of IS 16046-1
192	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Intened use	Cl.7.2 of IEC 62133-1
193	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Low pressure (cells)	Cl.7.3.7 of IS 16046-1
194	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Marking	Cl.9 of IS 16046-1
195	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Marking	Cl.9 of IEC 62133-1
196	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Mechanical shock (crash hazard)	Cl.7.3.4 of IS 16046-1
197	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Other information	Cl.9.4 of IS 16046-1
198	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Overcharge	Cl.7.3.8 of IEC 62133-1
199	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Overcharge	Cl.7.3.8 of IS 16046-1
200	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Packaging	Cl.10 of IS 16046-1
201	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Packaging	Cl.10 of IEC 62133-1
202	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Parameter measurement tolerances	Cl.4 of IEC 62133-1
203	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Parameter measurement tolerances	Cl.4 of IS 16046-1
204	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Quality plan	Cl.5.7 of IS 16046-1
205	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Reasonably foreseeable misuse	Cl.7.3 of IS 16046-1
206	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Small cell and battery safety information	Cl.8.2 of IS 16046-1



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207	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Specific requirements and tests	Cl.7 of IS 16046-1
208	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Temperature cycling	Cl.7.2.4 of IS 16046-1
209	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Temperature, Cycling	Cl.7.2.4 of IEC 62133-1
210	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Temperature, voltage and current management	Cl.5.4 of IS 16046-1
211	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Terminal contacts	Cl.5.5 of IS 16046-1
212	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Thermal abuse (cells)	Cl.7.3.5 of IS 16046-1
213	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Type test and sample size	Cl.6 of IS 16046-1
214	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Venting	Cl.5.3 of IS 16046-1
215	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes (Nickel systems)	Vibration	Cl.7.2.2 of IS 16046-1
216	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	forced discharge Test ( cell or cell block)	Clause 7.2.6 IEC 62619
217	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	Overcharge test ( cell or cell block)	Clause 7.2.5 IEC 62619
218	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	propagation test (battery system)	Clause 7.3.3 IEC 62619
219	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	Thermal abuse test (cell or cell block)	Clause 7.2.4 IEC 62619





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220	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	charging procedure for test purposes	clause 7.1 IEC 62619
221	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	Drop test ( cell or cell block, and battery system)	Clause 7.2.3 IEC 62619
222	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Secondary Lithium Cells and Batteries, for Use in Industrial Applications	Impact Test (cell or cell block)	Clause 7.2.1 IEC 62619
223	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Charging procedure for test purposes	IS 16822 C I. No. 6.2
224	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Discharge performance at low temperature	IS 16822 C I. No. 6.3.2
225	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Endurance in cycles	IS 16822 C I. No. 6.6.1
226	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Endurance in storage at constant voltage (permanent charge life)	IS 16822 C I. No. 6.6.2
227	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Measurement of the internal a.c. resistance	IS 16822 C I. No. 6.5.2
228	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Charge (capacity) retention and recovery	IS 16822 C I. No. 6.4



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229	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Discharge performance at +25 °C	IS 16822 C I. No. 6.3
230	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	High rate permissible current	IS 16822 C I. No. 6.3.3
231	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Measurement of the internal a.c. resistance	IS 16822 C I. No. 6.5.2
232	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes Secondary Lithium Cells and Batteries for Use in Industrial Applications	Measurement of the internal d.c. resistance	IS 16822 C I. No. 6.5.3
233	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	"Button cells or batteries storage, small prismatic cells or batteries storage, cylindrical cells or batteries storage"	Clause 7.9 IS 16048-1/ IEC 61951-1
234	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Charge (capacity) retention	Clause 7.4 IS 16048-1/ IEC 61951-1
235	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Charge acceptance at +55 °C for LT, MT or HT cylindrical cells	Clause 7.10 IS 16048-1/ IEC 61951-1
236	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Charging procedure for test purposes	Clause 7.2 IS 16048-1/ IEC 61951-1





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237	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Discharge performance	Clause 7.3 IS 16048-1/ IEC 61951-1
238	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Endurance	Clause 7.5 IS 16048-1/ IEC 61951-1
239	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Marking	Clause 5.3 IS 16048-1/ IEC 61951-1
240	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	over charge	Clause 7.7 IS 16048-1/ IEC 61951-1
241	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Safety device operation	Clause 7.8 IS 16048-1/ IEC 61951-1
242	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Trickle charge acceptance for JT cylindrical cells	clause 7.11 IS 16048-1/ IEC 61951-1
243	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 1: NICKEL-CADMIUM	Dimensions	Clause 6 IS 16048-1/ IEC 61951-1



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244	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Charge (capacity) retention	Clause 7.4 IS 16048-2/IEC 61951-2
245	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Charge acceptance at +55 oc for L T, MT or HT cylindrical cells	clause 7.11 IS 16048-2/IEC 61951-2
246	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Charging procedure for Test purposes	Clause 7.2 IS 16048-2/IEC 61951-2
247	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Discharge performance	Clause 7.3 IS 16048-2/IEC 61951-2
248	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Endurance	Clause 7.5 IS 16048-2/IEC 61951-2
249	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Marking	Clause 5.3 IS 16048-2/IEC 61951-2
250	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	over charge	clause 7.7 IS 16048-2/IEC 61951-2





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251	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Safety device operation	clause 7.8 IS 16048-2/IEC 61951-2
252	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Storage	clause 7.10 IS 16048-2/IEC 61951-2
253	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Surface temperature limitation device operation (for S cell only)	clause 7.9 IS 16048-2/IEC 61951-2
254	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Dimension	Clause 6 IS 16048-2/ IEC 61951-2
255	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Internal resistance	Clause 7.13 IS 16048-2/ IEC 61951-2
256	ELECTRICAL- CELLS & BATTERIES	SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS PART 2: NICKEL-METAL HYDRIDE	Trickle charge acceptance for JT cylindrical cells	clause 7.12 IS 16048-2/IEC 61951-2
257	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Charge (capacity) recovery after long term storage	IS 16047 (Part3) Cl. No. 7.5



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258	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Charge (capacity) retention and recovery	IS 16047 (Part3) Cl. No. 7.4
259	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Discharge performance at -20 °C	IS 16047 (Part3) Cl. No. 7.3.2
260	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Discharge performance at 20 °C (rated capacity)	IS 16047 (Part3) Cl. No. 7.3.1
261	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Discharge performance at 20 °C (rated capacity)	IS 16047 (Part3) Cl. No. 7.3.1, IS 16047 (Part3):2018
262	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Endurance in cycles at a rate of 0,2 It A	IS 16047 (Part3) Cl. No. 7.6.2
263	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Endurance in cycles at a rate of 0,5 It A (accelerated test procedure)	IS 16047 (Part3) Cl. No. 7.6.3
264	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	High rate discharge performance at 20 °C	IS 16047 (Part3) Cl. No. 7.3.3





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265	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Measurement of the internal AC resistance	, IS 16047 (Part3) Cl. No. 7.7.2
266	ELECTRICAL- CELLS & BATTERIES	Secondary Cells And Batteries Containing Alkaline Or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries For Portable Applications - Prismatic and cylindrical lithium secondary cells , and batteries made from them	Measurement of the internal DC resistance	IS 16047 (Part3) Cl. No. 7.7.3
267	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Capacity Check	IS 16270 (Cl. No. 8.4.3)
268	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Capacity Test	IS 16270 (Cl. No. 8.1)
269	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Phase B: Shallow Cycling at High State of Charge	IS 16270 (Cl. No. 8.4.3)
270	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Water Consumption of Flooded Battery Types and Cells with Partial Gas Recombination	IS 16270 (Cl. No. 8.4.5)
271	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Charge Retention Test	IS 16270 (Cl. No. 8.3)
272	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	End of Test Condition	IS 16270 (Cl. No. 8.4.4)
273	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Phase A: Shallow Cycling at Low State of Charge	IS 16270 (Cl. No. 8.4.2)
274	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Application	Sulphation Test (Applicable for Lead Acid	IS 16270 (Cl. No. 8.5)
275	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium - Ion Cells For the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	external short circuit	Clause 6.4.1 IEC 62660-3
276	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium - Ion Cells For the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	forced discharge	Clause 6.4.3 IEC 62660-3



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277	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium - Ion Cells For the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	High Temperature Endurance	Clause 6.3.1 IEC 62660-3
278	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium - Ion Cells For the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	Mechanical shock	Clause 6.2.1 IEC 62660-3
279	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium - Ion Cells For the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	over charge	Clause 6.4.2 IEC 62660-3
280	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium - Ion Cells For the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	temperature cycling	Clause 6.3.2 IEC 62660-3
281	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	cycling temperature	Clause 6.3.2 IEC 62660-2
282	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	External short circuit	Clause 6.4.1 IEC 62660-2
283	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	forced discharge	Clause 6.4.3 IEC 62660-2
284	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	Meachnical shock	Clause 6.2.2 IEC 62660-2
285	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	overcharge	Clause 6.4.2 IEC 62660-2
286	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	Thermal test	Clause 6.3.1 IEC 62660-2
287	ELECTRICAL- CELLS & BATTERIES	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	Vibration Test	Clause 6.2.1 IEC 62660-2
288	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Alternative Rates of Test Discharges	IS 1651 C I. No. 12.6





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289	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Ampere-Hour and Watt-Hour Efficiency Tests	IS 1651 C I. No. 12.9
290	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Loss of Capacity on Storage	IS 1651 C I. No. 12.7
291	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Short Circuit Current and Internal Resistance Test	IS 1651 C I. No. 12.13
292	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Test for Capacity	IS 1651 C I. No. 12.5
293	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Test for Voltage During Discharge	IS 1651 C I. No. 12.10
294	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Test of Suitability of Floating Battery Operation	IS 1651 C I. No. 12.12
295	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Verification of Constructional Requirements	1651 C I. No. 12.2
296	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Verification of Dimensions	IS 1651 C I. No. 12.4
297	ELECTRICAL- CELLS & BATTERIES	STATIONARY CELLS AND BATTERIES, LEAD-ACID TYPE ( WITH TUBULAR POSITIVE PLATES ) — SPECIFICATION ( Fourth Revision )	Verification of Marking and Packing	IS 1651 C I. No. 12.3
298	ELECTRICAL- CELLS & BATTERIES	STATIONARY LEAD-ACID BATTERIES ( WITH TUBULAR POSITIVE PLATES ) IN MONOBLOC CONTAINER — SPECIFICATION	Capacity and Dimensions	IS 13369 Cl. No.7.1
299	ELECTRICAL- CELLS & BATTERIES	STATIONARY LEAD-ACID BATTERIES ( WITH TUBULAR POSITIVE PLATES ) IN MONOBLOC CONTAINER — SPECIFICATION	Verification of Constructional Requirements	IS 13369 Cl. No.11.2
300	ELECTRICAL- CELLS & BATTERIES	STATIONARY LEAD-ACID BATTERIES ( WITH TUBULAR POSITIVE PLATES ) IN MONOBLOC CONTAINER — SPECIFICATION	Verification of Dimensions	IS 13369 Cl. No.11.4



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301	ELECTRICAL- CELLS & BATTERIES	STATIONARY LEAD-ACID BATTERIES ( WITH TUBULAR POSITIVE PLATES ) IN MONOBLOC CONTAINER — SPECIFICATION	Verification of Marking and Packing	IS 13369 Cl. No.11.3
302	ELECTRICAL- CELLS & BATTERIES	STATIONARY LEAD-ACID BATTERIES (WITH TUBULAR POSITIVE PLATES) IN MONOBLOC CONTAINER — SPECIFICATION	Test for Capacity	IS 13369 Cl. 11.5
303	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Float service with daily discharges	IEC 60896-21 (Cl. No. 6.13)
304	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Recharge behaviour	IEC 60896-21 (Cl. No. 6.14)
305	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Thermal runaway sensitivity	IEC 60896-21 (Cl. No. 6.18)
306	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Abusive over-discharge	IEC 60896-21 (Cl. No. 6.17)
307	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	at elevated internal pressures and temperatures	IEC 60896-21 (Cl. No. 6.20)
308	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Charge retention during storage	IEC 60896-21 (Cl. No. 6.12)
309	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Content and durability of required markings	IEC 60896-21 (Cl. No. 6.6)
310	ELECTRICAL- CELLS & BATTERIES	stationary lead-acid batteries - Valve regulated types	Discharge capacity	IEC 60896-21 (Cl. No. 6.11)
311	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	High current tolerance	IEC 60896-21 (Cl. No. 6.2)
312	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Impact of a stress temperature of 55 °C or 60 °C	IEC 60896-21 (Cl. No. 6.16)
313	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Intercell connector performance	IEC 60896-21 (Cl. No. 6.10)
314	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Low temperature sensitivity	IEC 60896-21 (Cl. No. 6.19)
315	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Material identification	IEC 60896-21 (Cl. No. 6.7)





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316	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Service life at an operating temperature of 40 °C	(Cl. No. 6.15)IEC 60896-21 (Cl. No. 6.15)
317	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Short-circuit current and d.c. internal resistance	IEC 60896-21 (Cl. No. 6.3)
318	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Valve regulated types	Stability against mechanical abuse of units during installation	IEC 60896-21 (Cl. No. 6.21)
319	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries -Vented types	Charge retention test	IEC 60896-11 (Cl. No. 18)
320	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries -Vented types	Endurance in discharge - charge cycles	IEC 60896-11 (Cl. No. 16)
321	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries -Vented types	Capacity test	IEC 60896-11 (Cl. No. 14)
322	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries -Vented types	Endurance in overcharged	IEC 60896-11 (Cl. No. 17)
323	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries -Vented types	Short-circuit current and internal resistance determination	IEC 60896-11 (Cl. No. 19)
324	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries -Vented types	Test of suitability for floating battery operation	IEC 60896-11 (Cl. No. 15)
325	ELECTRICAL- CELLS & BATTERIES	STATIONARY VALVE REGULATED LEAD ACID BATTERIES — SPECIFICATION	Test for Retention of Charge	IS 15549 Cl. 12.6
326	ELECTRICAL- CELLS & BATTERIES	STATIONARY VALVE REGULATED LEAD ACID BATTERIES — SPECIFICATION	Watt Hour Efficiency	IS 15549 Cl. 12.5
327	ELECTRICAL- CELLS & BATTERIES	STATIONARY VALVE REGULATED LEAD ACID BATTERIES	Test for C 10 Capficity	IS 15549 Cl. 12.1
328	ELECTRICAL- CELLS & BATTERIES	STATIONARY VALVE REGULATED LEAD ACID BATTERIES	Ampere Hour Efficiency	IS 15549 Cl. No. 12.4
329	ELECTRICAL- CELLS & BATTERIES	STATIONARY VALVE REGULATED LEAD ACID BATTERIES	Capacity Test at Other Discharge Rates	IS 15549 Cl. No. 12.3
330	ELECTRICAL- CELLS & BATTERIES	STATIONARY VALVE REGULATED LEAD ACID BATTERIES	Test for Cl Capacity	IS 15549 Cl. No. 12.2



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331	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Abnormal operation and fault conditions	Clause No. 8.3 of IS 16242 (part 1)
332	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	AC and D.C. power isolation	Clause No. 5.4 of IS 16242 (part 1)
333	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Backfeed protections	Clause No. 5.1.4 of IEC 62040-1 (Withdrawn Standard)
334	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Backfeed protections	Clause No. 5.1.4 of IS 16242 (part 1)
335	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Battery	Clause No. 4.7.20 of IEC 62040-1
336	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Battery	Clause No. 4.7.20 of IS 16242 (part 1)
337	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Charging voltage	Clause No. 7.6.8 of IS 16242 (part 1)
338	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Charging voltage	Clause No. 7.6.8 of IEC 62040-1 (Withdrawn Standard)
339	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Clearance, creepage distances and distance through insulation	Clause No. 5.7 of IEC 62040-1 (Withdrawn Standard)
340	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Clearance, creepage distances and distance through insulation	Clause No. 5.7 of IS 16242 (part 1)
341	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Connection to power	Clause No. 6.2 of IS 16242 (part 1)
342	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Connection to power	Clause No. 6.2 of IEC 62040-1 (Withdrawn Standard)





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343	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Connection to telecommunication networks	Clause No. 9 of IS 16242 (part 1)
344	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Connection to telecommunication networks	Clause No. 9 of IEC 62040-1 (Withdrawn Standard)
345	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Dimensions and ratings of busbars and insulated conductors	Clause No. 6.1.2 of IEC 62040-1 (Withdrawn Standard)
346	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Durability of markings	Clause No. 4.7.16 of IEC 62040-1 (Withdrawn Standard)
347	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Durability of markings	Clause No. 4.7.16 of IS 16242 (part 1)
348	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Electric strength	Clause No. 8.2 of IEC 62040-1 (Withdrawn Standard)
349	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Electric strength	Clause No. 8.2 of IS 16242 (part 1)
350	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Enclosure	Clause No. 7.1 of IEC 62040-1 (Withdrawn Standard)
351	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Equipment movement	Clause No. 7.4.4 of IS 16242 (part 1)
352	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Equipment movement	Clause No. 7.4.4 of IEC 62040-1 (Withdrawn Standard)
353	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	External signalling circuits	Clause No. 5.2.4 of IS 16242 (part 1)
354	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	External signalling circuits	Clause No. 5.2.4 of IEC 62040-1 (Withdrawn Standard)



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355	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Gas concentration	Clause No. 7.4.3 of IEC 62040-1 (Withdrawn Standard)
356	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Gas concentration	Clause No. 7.4.3 of IS 16242 (part 1)
357	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	General provision for earth leakage	Clause No. 8.1 of IS 16242 (part 1)
358	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	General provision for earth leakage	Clause No. 8.1 of IEC 62040-1 (Withdrawn Standard)
359	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	High leakage current (mA)	Clause No. 4.7.13 of IEC 62040-1 (Withdrawn Standard)
360	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	High leakage current (mA)	Clause No. 4.7.13 of IS 16242 (part 1)
361	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Limited current circuits	Clause No. 5.2.3 of IS 16242 (part 1)
362	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Limited current circuits	Clause No. 5.2.3 of IEC 62040-1 (Withdrawn Standard)
363	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Load-induced change of reference potential	Annex I.4 of IEC 62040-1 (Withdrawn Standard)
364	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Marking and instructions	Clause No. 4.7 of IS 16242 (part 1)
365	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Marking and instructions	Clause No. 4.7 of IEC 62040-1 (Withdrawn Standard)
366	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Mechanical strength	Clause No. 7.3 of IS 16242 (part 1)





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367	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Mechanical strength	Clause No. 7.3 of IEC 62040-1 (Withdrawn Standard)
368	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Openings	Clause No. 7.4.2 of IS 16242 (part 1)
369	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Openings	Clause No. 7.4.2 of IEC 62040-1 (Withdrawn Standard)
370	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Overcurrent and earth fault protection	Clause No. 5.5 of IS 16242 (part 1)
371	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Overcurrent and earth fault protection	Clause No. 5.5 of IEC 62040-1 (Withdrawn Standard)
372	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Parts on doors	Clause No. 5.6.2.4 of IEC 62040-1 (Withdrawn Standard)
373	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Parts on doors	Clause No. 5.6.2.4 of IS 16242 (part 1)
374	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Power interface	Clause No. 4.6 of IEC 62040-1 (Withdrawn Standard)
375	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection for UPS intended to be used in operator access area	Clause No. 5.1.1 of IS 16242 (part 1)
376	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection for UPS intended to be used in operator access area	Clause No. 5.1.1 of IEC 62040-1 (Withdrawn Standard)
377	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection for UPS intended to be used in restricted access areas	Clause No. 5.1.3 of IS 16242 (part 1)
378	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection for UPS intended to be used in restricted access areas	Clause No. 5.1.3 of IEC 62040-1 (Withdrawn Standard)



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379	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection for UPS intended to be used in service access areas	Clause No. 5.1.2 of IEC 62040-1 (Withdrawn Standard)
380	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection for UPS intended to be used in service access areas	Clause No. 5.1.2 of IS 16242 (part 1)
381	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection of personnel - Safety interlocks	Clause No. 5.6 of IEC 62040-1 (Withdrawn Standard)
382	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protection of personnel - Safety interlocks	Clause No. 5.6 of IS 16242 (part 1)
383	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protective earthing	Clause No. 5.3.2 of IS 16242 (part 1)
384	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protective earthing	Clause No. 5.3.2 of IEC 62040-1 (Withdrawn Standard)
385	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protective earthing and bonding	Clause No. 5.3 of IS 16242 (part 1)
386	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Protective earthing and bonding	Clause No. 5.3 of IEC 62040-1 (Withdrawn Standard)
387	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Resistance to fire	Clause No. 7.5 of IEC 62040-1 (Withdrawn Standard)
388	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Resistance to fire	Clause No. 7.5 of IS 16242 (part 1)
389	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Safety extra low voltage circuits - SELV	Clause No. 5.2.1 of IS 16242 (part 1)
390	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Safety extra low voltage circuits - SELV	Clause No. 5.2.1, of IEC 62040-1 (Withdrawn Standard)





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391	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Simulation of faults	Clause No. 8.3.2 of IEC 62040-1 (Withdrawn Standard)
392	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Simulation of faults	Clause No. 8.3.2 of IS 16242 (part 1)
393	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Stability	Clause No. 7.2 of IS 16242 (part 1)
394	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Stability	Clause No. 7.2 of IEC 62040-1 (Withdrawn Standard)
395	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Telephone network voltage circuits - TNV	Clause No. 5.2.2 of IEC 62040-1 (Withdrawn Standard)
396	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Telephone network voltage circuits - TNV	Clause No. 5.2.2 of IS 16242 (part 1)
397	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Temperature rise	Clause No. 7.7 of IEC 62040-1 (Withdrawn Standard)
398	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Temperature rise	Clause No. 7.7 of IS 16242 (part 1)
399	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Ventilation	Clause No. 7.6.7 of IS 16242 (part 1)
400	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Ventilation	Clause No. 7.6.7 of IEC 62040-1 (Withdrawn Standard)
401	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Wiring	Clause No. 7.6.5 of IEC 62040-1 (Withdrawn Standard)
402	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Wiring	Clause No. 7.6.5 of IS 16242 (part 1)



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403	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Wiring, connections and supply	Clause No. 6 of IS 16242 (part 1)
404	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Uninterruptible Power System (1ph up to 10 KV)	Wiring, connections and supply	Clause No. 6 of IEC 62040-1 (Withdrawn Standard)
405	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Drawers	Clause No. 12.4 of IS 616
406	ELECTRONICS- DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Drop test	Clause No. 12.7.3.4 of IS 616





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407	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Electric shock hazard	Clause No. 11.1 of IS 616
408	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Accessible parts	Clause No. 7.1.2 of IEC 60065



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409	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Accessible parts	Clause No. 7.1.2 of IS 616
410	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Antenna coaxial sockets mounted on the apparatus	Clause No. 12.5 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
411	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Antenna coaxial sockets mounted on the apparatus	Clause No. 12.5 of IS 616
412	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Battery replacement test	Clause No. 12.7.3.3 of IEC 60065



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	MARQUIS TECHNOLOGIES PRIVATE LIMITED, A-43, SECTOR 67, NOIDA, UTTAR PRADESH, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
413	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Battery replacement test	Clause No. 12.7.3.3 of IS 616
414	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Bump test	Clause No. 12.1.2 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
415	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Bump test	Clause No. 12.1.2 of IS 616
416	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Clearance in circuits conductively connected to the mains	Clause No.13.3.2 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
417	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Clearances in circuits conductively connected to the mains	Clause No.13.3.2 of IEC 60065
418	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Clearances in circuits not conductively connected to the mains	Clause No.13.3.3 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
419	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Clearances in circuits not conductively connected to the mains	Clause No.13.3.3 of IS 616
420	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Constructional requirement with regard to protection against shock	Clause No. 8 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
421	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Constructional requirement with regard to protection against shock	Clause No. 8 of IS 616
422	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Creepage Distance	Clause No.13.4 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
423	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Creepage distances	Clause No.13.4 of IEC 60065
424	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Crush test	Clause No. 12.7.3.6 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
425	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Crush Test	Clause No. 12.7.3.6 of IEC 60065
426	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Crush test	Clause No. 12.7.3.6 of IS 616



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
427	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Crush Test	Clause No. 12.7.3.6 of IS 616
428	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Determination of accessible parts	Clause No. 9.1.1.3 of IEC 60065





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
429	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Determination of accessible parts	Clause No. 9.1.1.3 of IS 616
430	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Determination of hazardous live parts	Clause No. 9.1.1.2 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
431	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Determination of hazardous live parts	Clause No. 9.1.1.2 of IS 616
432	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Determination of Working voltage	Clause No.13.2 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
433	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Determination of working voltage	Clause No.13.2 of IS 616
434	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Device forming a part of mains plug	Cl.15.4 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
435	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Device forming a part of mains plug	Cl.15.4 of IEC 60065
436	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Device forming a part of mains plug	Cl.15.4 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
437	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Drawers	Clause No. 12.4 of IEC 60065
438	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Drop test	Clause No. 12.1.5 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
439	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Drop test	Clause No. 12.1.5 of IS 616
440	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Drop test	Clause No. 12.7.3.4 of IEC 60065





# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
441	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Electric shock hazard	Clause No. 11.1 of IEC 60065
442	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Electrical components	Cl.20.2.2 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
443	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Electrical components	Cl.20.2.2 of IS 616
444	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Electrical connections and mechanical fixing	Cl.17.1 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
445	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Electrical connections and mechanical fixing	Cl.17.1 of IS 616
446	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Enclosed and sealed parts	Clause No.13.7 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
447	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Enclosed and sealed parts	Clause No.13.7 of IS 616
448	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	External flexible cord	Cl.16.2 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
449	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Fire enclosure	Cl.20.3 of IEC 60065
450	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Fire enclosure	Cl.20.3 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
451	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Fixing of actuating elements	Clause No. 12.2 of IEC 60065
452	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Fixing of actuating elements	Clause No. 12.2 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
453	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Heat resistance of insulating material	Clause No. 7.2 of IEC 60065
454	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Heat resistance of insulating material	Clause No. 7.2 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
455	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Humidity treatment	Clause No. 10.3 of IEC 60065
456	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Humidity treatment	Clause No. 10.3 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
457	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Identification and supply ratings	Clause No. 5.2 of IEC 60065
458	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Identification and supply ratings	Clause No. 5.2 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
459	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Impact test	Clause No. 12.1.4 of IEC 60065
460	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Impact test	Clause No. 12.1.4 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
461	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Impact test	Clause No. 12.7.3.5 of IEC 60065
462	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Impact test	Clause No. 12.7.3.5 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
463	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Insulation resistance and dielectric strength	Clause No. 10.4 of IEC 60065
464	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Insulation resistance and dielectric strength	Clause No. 10.4 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
465	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Internal wiring	Cl.20.2.3 of IEC 60065
466	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Internal wiring	Cl.20.2.3 of IS 616:



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
467	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Jointed insulation	Clause No.13.6 of IEC 60065
468	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Jointed insulation	Clause No.13.6 of IS 616



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
469	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Measurement of temperature rises	Clause No. 11.2.2 of IEC 60065
470	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Measurement of temperature rises	Clause No. 11.2.2 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
471	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Measurement of transient voltages	Clause No.13.3.4 of IEC 60065
472	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Measurement of transient voltages	Clause No.13.3.4 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
473	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Mechanical strength of glass	Cl.19.6 of IEC 60065
474	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Mechanical strength of glass	Cl.19.6.1 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
475	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Mechanical strength of glass	Cl.19.6.2 of IS 616
476	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Openings of the enclosure	Clause No. 9.1.3 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
477	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Openings of the enclosure	Clause No. 9.1.3 of IS 616
478	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Parts acting as a support or a mechanical barrier	Clause No. 7.1.4 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
479	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Parts acting as a support or a mechanical barrier	Clause No. 7.1.4 of IS 616
480	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Parts, other than windings, providing electrical insulation	Clause No. 7.1.3 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
481	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Parts, other than windings, providing electrical insulation	Clause No. 7.1.3 of IEC 60065
482	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Physical securement	Clause No. 12.6.2 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
483	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Physical securement	Clause No. 12.6.2 of IS 616
484	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Pre-set controls	Clause No. 9.1.5 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
485	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Pre-set controls	Clause No. 9.1.5 of IS 616
486	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Printed board	Clause No.13.5 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
487	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Printed boards	CI.20.2.4 of IEC 60065
488	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Printed boards	CI.20.2.4 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
489	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Printed boards	Clause No. 11.2.7 of IEC 60065
490	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Printed boards	Clause No. 11.2.7 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
491	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Printed boards	Clause No.13.5 of IEC 60065
492	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Provision for protective earthing	Cl.15.2 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
493	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Provision for protective earthing	Cl.15.2 of IS 616
494	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Remote control devices held in hand	Clause No. 12.3 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
495	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Remote control devices held in hand	Clause No. 12.3 of IEC 60065
496	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Resistance to external forces	Clause No. 9.1.7 of IS 616



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
497	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Resistance to external forces	Clause No. 9.1.7 of IEC 60065
498	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Shafts of operating knobs, handles, levers and the like	Clause No. 9.1.2 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
499	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Shafts of operating knobs, handles, levers and the like	Clause No. 9.1.2 of IEC 60065
500	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Stability requirements	Cl.19.1 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
501	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Stability requirements	Cl.19.1 of IS 616
502	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Stress relief test	Clause No. 12.1.6 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
503	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Stress relief test	Clause No. 12.1.6 of IEC 60065
504	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Stress relief test	Clause No. 12.7.3.2 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
505	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Stress relief test	Clause No. 12.7.3.2 of IEC 60065
506	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Surge test	Clause No. 10.2 of IS 616





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507	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Surge test	Clause No. 10.2 of IEC 60065
508	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Terminals for external flexible cords and for permanent connection to mains supply.	Cl.15.3 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
509	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Terminals	Clause No. 9.1.4 of IS 616
510	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Terminals	Clause No. 9.1.4 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
511	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Terminals for external flexible cords and for permanent connection to mains supply.	Cl.15.3 of IEC 60065
512	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Test at 10° to the horizontal	Cl.19.2 of IEC 60065





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
513	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Test at 10° to the horizontal	Cl.19.2 of IS 616
514	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Test at 10° to the horizontal	Cl.19.3 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
515	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Test at 10° to the horizontal	Cl.19.3 of IS 616
516	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Test at 10° to the horizontal	Cl.19.4 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
517	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Test at 10° to the horizontal	Cl.19.4 of IS 616
518	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Vibration test	Clause No. 12.1.3 of IS 616





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
519	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Vibration test	Clause No. 12.1.3 of IEC 60065
520	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Wall or ceiling mounting means	Cl.19.7.2 of IS 616



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
521	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Windings	Clause No. 11.2.6 of IS 616
522	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Windings	Clause No. 11.2.6 of IEC 60065



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
523	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Windings	Clause No. 7.1.5 of IS 616
524	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Withdrawal of mains plug	Clause No. 9.1.6 of IS 616





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525	ELECTRONICS-DOMESTIC ELECTRONIC APPLIANCES & ACCESSORIES	Amplifiers with input power 2000W and Above, Electronic games, electronic musical system with input power 200W and above, optical disc players with built in amplifiers of input power 200W, Plasma/LCD/LED television of screen size 32"; and above, power adapters for audio, video & similar electronic apparatus, Plasma/LCD/LED television of screen size upto 32, Wireless headphone and earphone, Electronic musical system with input power below 200W, Television other than plasma/LCD/LED TVs, wireless microphone, Video camera, Webcam, Smart speaker(with and without display), Bluetooth speakers	Withdrawal of mains plug	Clause No. 9.1.6 of IEC 60065
526	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Audio, Video and Related Equipment	Standby power mode	IEC 62301, 2nd edition Cl.5.3.1"
527	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Audio, Video and Related Equipment	Luminance testing	IEC 62087 Ed-3 ,Cl.11.4.8, (Withdrawn Standard)
528	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Audio, Video and Related Equipment	Power on mode	IEC 62087 Ed.3, Cl.11.6 (Withdrawn Standard)
529	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Laptop/ Notebook Computers	PLong-idle	BEE Schedule - 14
530	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Laptop/ Notebook Computers	Poff	BEE Schedule - 14



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531	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Laptop/ Notebook Computers	PShort-idle	BEE Schedule - 14
532	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Laptop/ Notebook Computers	Psleep	BEE Schedule - 14
533	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multi Function Devices)	Active mode	Clause 3.8 of IEC 62301
534	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multi Function Devices)	. Off mode	Clause 3.5 of IEC 62301
535	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multi Function Devices)	Ready state	Clause 3.8 of IEC 62301
536	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multi Function Devices)	Sleep mode	IEC 62301
537	ELECTRONICS-ENERGY EFFICIENCY OF DOMESTIC ELECTRONIC APPLIANCES	Office Equipment (Printers, Scanners, Copiers, Fax Machines and Multi Function Devices)	Standby	Clause 3.6 of IEC 62301
538	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Impact Test, vertical Impact drop, shock, bounce, hammer test	IS 9000 (Part 7/Sec 1 )



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539	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Cyclic damp heat Test	BSEN 50155 Clause-13.4.8, BS EN 50155
540	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Dry heat Test	BSEN 50155 Clause- 1 3.4.5.4, BS EN 50155
541	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Low Temperature	BSEN 50155 Clause- 13.4.4, BS EN 50155
542	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Salt Mist Test	BSEN 50155 Clause-13.4.13, BS EN 50155
543	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Enclosure Protection Test (IP 1,2,3,4,5,6,7,8)	BSEN 50155 Clause- 1 3.4.1 0.5, BS EN 50155
544	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Insulation Test	BSEN 50155 Clause- 1 3.4.7.2, BS EN 50155
545	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Rapid Temperature Variation Test	BSEN 50155 Clause- 13.4.12, BS EN 50155
546	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Shock Test and vibration	BSEN 50155 Clause- 13.4.10
547	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Railway applications - Rolling stock - Electronic equipment"	Shock Test and vibration	BSEN 50155 Clause- 13.4.11, BS EN 50155
548	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	"Vibration testing methods for automobile parts"	Vibration tester	JIS D 1601 Cl. No. 4, JIS D 1601
549	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	BASIC ENVIRONMENTAL TESTING PROCEDURES FOR ELECTRONIC ANDELECTRICAL ITEMS	SALT MIST TEST	IS 9000 (part 11) Clause No. 7.1, IS 9000 (part 11): 1983
550	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP 1,2,3,4,5,6,7,8)	Test for second characteristic numeral 1 with the drip box	CI 14.2.1 of IEC 60529





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551	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP 7,8)	Test for second characteristic numeral 2 with the drip box	CI 14.2.2 of IEC 60529
552	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP 9)	Test for second characteristic numeral 9 by high pressure and temperature water jetting	CI 14.2.9 of IEC 60529
553	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical and electronics equipment	Salt spray test	ASTM B117 Cl .no 10
554	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	DC RESISTANCE	MIL-STD-202H Test 303
555	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	DIELECTRIC WITHSTANDING VOLTAGE	MIL-STD-202H Test 301
556	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	Immersion	MIL-STD-202H Test 104
557	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	INSULATION RESISTANCE	MIL-STD-202H Test 302
558	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	LIFE (AT ELEVATED AMBIENT TEMPERATURE) METHOD 108	MIL-STD-202H
559	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	MOISTURE RESISTANCE	MIL-STD-202H test 106
560	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	RANDOM VIBRATION	MIL-STD-202H Test 214
561	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	SALT ATMOSPHERE (CORROSION)	MIL-STD-202H Test 102



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562	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	TEMPERATURE CYCLING	MIL-STD-202H Test 103
563	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	Vibration	MIL-STD-202 Test 201
564	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ELECTRONIC AND ELECTRICAL COMPONENT PARTS	VIBRATION, HIGH FREQUENCY	MIL-STD-202 Test 204
565	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	General Heavy-Duty Truck Electrical Environment	SAE J1455 Clause 4.13
566	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Dust and Sand	SAE J1455 Clause 4.7
567	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Fungus	SAE J1455 Clause 4.6
568	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Humidity	SAE J1455 Clause 4.2
569	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Mechanical Shock	SAE J1455 Clause 4.11
570	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Mechanical Vibration	SAE J1455 Clause 4.10
571	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Salt Spray Atmosphere	SAE J1455 Clause 4.3
572	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Temperature Cycle Test	SAE J1455 Clause 4.1.3.1
573	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Thermal Cycling	SAE J1455 Clause 4.1.15



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574	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Thermal Shock Test	SAE J1455 Clause 4.1.3.2
575	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic Equipment Design in Heavy-Duty Vehicle Applications	Thermal Stress	SAE J1455 Clause 4.1.3.3
576	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Sand & dust test (1meter cube)	IS 9000 (Part 12 )
577	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Shock Test	IEC 61373
578	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Change of temperature	ETSI EN 300 019-2-4
579	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Cold Test, Low Temperature (Cold Cycle), Low Temperature	IS 60068-2-1
580	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Damp heat test	Test No. 3 of QM 333 (45-95% RH)
581	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Vibration test	IS 9000 (Part 8)
582	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Composite temperature /humidity cyclic test	IS 60068-2-38
583	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Drop, topple and fall test	Test no. 13 & 26 of JSS 55555,
584	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	High temperature test (Dry Heat Cycle)	IEC 60068-2-2
585	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Damp Heat Cyclic, Tropical Exposure (Damp Heat Cyclic)	ETSI EN 300 019,





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586	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Damp heat cyclic, tropical exposure (Damp Heat Cyclic)	IEC 60068-2-30
587	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Dry heat/High temperature	IEC 60068-2-2
588	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 1st characteristic numeral IP4X	CI 13.2 of IEC 60529
589	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 1st characteristic numeral IP5X	CI 13.4 of IEC 60529
590	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 1st characteristic numeral IP6X	CI 13.4 of IEC 60529
591	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 2nd characteristic numeral IPX3	IEC 60529
592	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 2nd characteristic numeral IPX4	IEC 60529
593	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 2nd characteristic numeral IPX6	IEC 60529
594	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 2nd characteristic numeral IPX7	IEC 60529
595	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 2nd characteristic numeral IPX8	IEC 60529
596	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 1st characteristic numeral IP1X	CI 13.2 of IEC 60529
597	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress protection, 1st characteristic numeral IP3X	CI 13.2 of IEC 60529



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598	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 1st characteristic numeral IP2X	CI 13.2 of IEC 60529
599	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Ingress Protection, 2nd characteristic numeral IPX5	IEC 60529
600	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Sine vibration , Random vibration , Shock vibration, combination of sine and random	IS 9000(part-8)
601	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronics products	Temperature cycling	IS 60068-2-38
602	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Practices for Electronic Equipment Design in Heavy-Duty Vehicle Applications	ENVIRONMENTAL FACTORS AND TEST METHODS	SAE J1455 Clause 4
603	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	"Composite Temperature/Humidity Cyclic Test"	JSS 55555 Test Number 22 of JSS 55555
604	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	TROPICAL EXPOSURE	JSS 55555 Test Number 27 of JSS 55555
605	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	CORROSION (SALT/SALT FOG)	JSS 55555 TEST NUMBER 9 & 16
606	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	DAMP HEAT	JSS 55555,TEST NUMBER 10
607	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	Dust	JSS 55555,Test Number 14 of JSS 55555
608	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	High Temperature	JSS 55555 Test Number 17 JSS 55555



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609	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	LOW TEMPERATURE	JSS 55555 Test Number 20 JSS 55555
610	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	"Immersion Test"	jss 55555 Test Number 19
611	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	Fine mist test	JSS 55555 Test Number 16 of JSS 55555
612	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	ENVIRONMENTAL TEST METHOD FOR ELECTRONIC AND ELECTRICAL EQUIPMENT	VIBRATION	JSS 55555 Test Number 28 of JSS 55555
613	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	"High temperature Test (Dry Heat Cycle)"	QM-333 Test no. 2 Section 3 of SD:QM-333 Issue: March 2010
614	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Corrosion-Salt	QM-333 Test no. 9 Section 3 of SD:QM-333 Issue: March 2010
615	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Damp heat (Steady State)	QM-333 Test no. 5 Section 3 of SD:QM-333 Issue: March 2010
616	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Drop Test	QM-333 Test no. 10 Section 3 of SD:QM-333 Issue: March 2010
617	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Dust Test	QM-333 Test no. 15 Section 3 of SD:QM-333 Issue: March 2010
618	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Fall test	QM-333 Test no. 12 Section 3 of SD:QM-333 Issue: March 2010
619	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	GUNFIRE SHOCK	MIL-STD-810H METHOD 519.8
620	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Rapid Temperature Cycle Test	QM-333 Test no. 4 Section 3 of SD:QM-333 Issue: March 2010





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621	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Topple Test	QM-333 Test no. 11 Section 3 of SD:QM-333 Issue: March 2010
622	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Tropical Exposure Test (Damp Heat Cycle)	QM-333 Test no. 3 Section 3 of SD:QM-333 Issue: March 2010
623	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Vibration Test	QM-333 Test no. 6 Section 3 of SD:QM-333 Issue: March 2010
624	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Water Immersion	QM-333 Test no. 8 Section 3 of SD:QM-333 Issue: March 2010
625	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Low Pressure (Altitude)	MIL-STD-810H METHOD 500.6
626	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Humidity	MIL-STD-810H Method 507.6
627	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	Low temperature Test (Cold Cycle)	QM-333 Test no. 1 Section 3 of SD:QM-333 Issue: March 2010
628	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	LOW TEMPERATURE	MIL-STD-810H METHOD 502.7
629	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	SALT FOG / CORROSIVE ENVIRONMENTS	MIL-STD-810H METHOD 509.8
630	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	SAND AND DUST	MIL-STD-810H Method 510.7
631	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	SHOCK	MIL-STD-810H METHOD 516.8
632	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental Testing of Telecommunication Equipment	VIBRATION	MIL-STD-810H METHOD 514.8



# National Accreditation Board for Testing and Calibration Laboratories

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<b>Laboratory Name :</b>	MARQUIS TECHNOLOGIES PRIVATE LIMITED, A-43, SECTOR 67, NOIDA, UTTAR PRADESH, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-11960	<b>Page No</b>	102 of 227
<b>Validity</b>	24/07/2023 to 23/07/2025	<b>Last Amended on</b>	22/06/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
633	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Environmental testing-Damp heat, steady state	Damp Heat	IEC 60068-2-78 IEC 60068-2-78 : 2012
634	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Normal power supply voltage test	JASO D001 Cl. N. 5.1
635	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Heat cycle test	JASO D001 Cl. N. 5.16
636	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	High temperature maintain test	JASO D001 Cl. N. 5.14
637	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	High temperature operation test	JASO D001 Cl. N. 5.15
638	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Low temperature maintain test	JASO D001 Cl. N. 5.12
639	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Low temperature operation test	JASO D001 Cl. N. 5.13
640	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Temperature and humidity cycle test	JASO D001 Cl. N. 5.18
641	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Temperature characteristic test	JASO D001 Cl. N. 5.11
642	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Test for power supply voltage upon engine starting	JASO D001 Cl. N. 5.2
643	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Vibration test	JASO D001 Cl. N.5.23
644	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	General rules of environmental testing methods for automotive electronic equipment	Constant high humidity test	JASO D001 Cl. N.5.19



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645	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I – ENVIRONMENTAL AND TYPE II – INTERNALLY EXCITED)	Vibration tests	MIL-STD-167-1A Clause 5.1.2.4
646	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	LOW TEMPERATURE	JSS 0256-01 Test 2
647	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Temperature	EN 50125-3 Cl.no.4.3
648	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Temperature	EN 50125-1 Cl no.4.3
649	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	COROSION ( SALT )	JSS 0256-01 Test 12
650	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	DROP	JSS 0256-01 Test 20
651	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	HIGH TEMPERATURE	JSS 0256-01 Test 1
652	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Humidity	EN 50125-1 Cl.no.4.4
653	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Humidity test	EN 50125-3 Cl.no.4.4
654	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Rain	EN 50125-1 Cl.no.4.6
655	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Rain	EN 50125-3 Cl.no.4.6
656	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	shock	EN 50125-3 Cl.no.4.13.2





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657	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	SHOCK TEST	JSS 0256-01 Test 18
658	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	TROPICAL EXPOSURE	JSS 0256-01 Test 4
659	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	VIBRATION	JSS 0256-01 Test 15
660	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Environmental conditions for equipment - Part 1: Rolling stock and on-board equipment	Vibrations	EN 50125-3 Cl.no.4.13.1
661	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	RAILWAY APPLICATIONS - ROLLING STOCK EQUIPMENT - SHOCK AND VIBRATION TESTS	Functional random vibration test conditions	IEC 61373 Cl. 8
662	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Railway applications - Rolling stock equipment - Shock and vibration tests	Order of testing	IEC 61373
663	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	RAILWAY APPLICATIONS - ROLLING STOCK EQUIPMENT - SHOCK AND VIBRATION TESTS	Shock testing conditions	IEC 61373 Cl. 10
664	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	RAILWAY APPLICATIONS - ROLLING STOCK EQUIPMENT - SHOCK AND VIBRATION TESTS	Simulated long-life testing at increased random vibration levels	IEC 61373 Cl. 9
665	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test I — Passenger car, engine Sinusoidal vibration"	ISO 16750-3 Clause 4.1.2.1.2.2
666	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test II — Passenger car, gearbox Random vibration"	ISO 16750-3 Clause 4.1.2.2.2.3
667	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test X — Passenger car, fuel rail (gasoline engine with GDI-system) Random vibration"	ISO 16750-3 Clause 4.1.2.10.2.3



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668	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Free fall	ISO 16750-3 Clause 4.3
669	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Sinusoidal vibration	ISO 16750-3 Clause 4.1.2.1.2.2
670	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Test IX — Commercial vehicle, unsprung masses	ISO 16750-3 Clause 4.1.2.9
671	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Test V — Passenger car, unsprung masses (wheel, wheel suspension)	ISO 16750-3 Clause 4.1.2.5
672	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test I — Passenger car, engine Random vibration"	ISO 16750-3 Clause 4.1.2.1.2.3
673	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test II — Passenger car, gearbox Sinusoidal vibration"	ISO 16750-3 Clause 4.1.2.2.2.2
674	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test IV — Passenger car, sprung masses (vehicle body) "	ISO 16750-3 Clause 4.1.2.4
675	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test VI — Commercial vehicle, engine, gearbox Random vibration"	ISO 16750-3 Clause 4.1.2.6.2.3
676	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test X — Passenger car, fuel rail (gasoline engine with GDI-system) Sinusoidal vibration"	ISO 16750-3 Clause 4.1.2.10.2.2
677	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test XI — Passenger car, solid intake manifold Sinusoidal vibration"	ISO 16750-3 Clause 4.1.2.11.2.2
678	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	"Test VI — Commercial vehicle, engine, gearbox Sinusoidal vibration"	ISO 16750-3 Clause 4.1.2.6.2.2



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679	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Mechanical shock	ISO 16750-3 Clause 4.2
680	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Test VII — Commercial vehicle, sprung masses	ISO 16750-3 Clause 4.1.2.7
681	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Road vehicles — Environmental conditions and testing for electrical and electronic equipment	Test XII — Passenger car, exhaust pipe	ISO 16750-3 Clause 4.1.2.12
682	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Mandrel test	Annex AA of IS 13252 + A1 + A2
683	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	"Normal load conditions for some types of electrical business equipment"	Annex L, IEC 60950-1





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684	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	"Requirements for the mounting means of rack-mounted equipment"	Annex DD, IEC 60950-1
685	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	"Requirements for the mounting means of rack-mounted equipment"	Annex DD, IS 13252 + A1 + A2
686	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Abnormal operating and fault conditions	Clause No. 5.3 of IEC 60950-1



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687	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Abrasion resistance test	Clause No. 2.10.8.4 of IEC 60950-1 +A1 +A2
688	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	AC power distribution systems	Clause No. 1.6.1 of IEC 60950-1 + A1 + A2
689	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	AC power supply cords	Clause No. 3.2.5.1 of IEC 60950-1 +A1 +A2



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690	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Access to ELV wiring	Clause No. 2.1.1.3 of IEC 60950-1 + A1 + A2
691	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Access to ELV wiring	Clause No. 2.1.1.3 of IS 13252
692	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Access to energized parts	Clause No. 2.1.1.1 of IEC 60950-1 + A1 + A2





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693	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Access to energized parts	Clause No. 2.1.1.1 of IS 13252
694	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Access to hazardous voltage circuit wiring	Clause No. 2.1.1.4 of IEC 60950-1 + A1 + A2
695	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Access to hazardous voltage circuit wiring	Clause No. 2.1.1.4 of IS 13252



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696	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Additional insulation in wound components	Clause No. 2.10.5.14 of IEC 60950-1 +A1 +A2
697	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Adhesives for constructional purposes	Clause No. 4.6.5 of IEC 60950-1
698	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Adhesives for constructional purposes	Clause No. 4.6.5 of IS 13252



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699	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Adjustable controls	Clause No. 4.3.3 of IEC 60950-1 +A1 +A2
700	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Adjustable controls	Clause No. 4.3.3 of IS 13252
701	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	After the tests	Clause No. 5.3.9.2 of IS 13252





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<b>Validity</b>	24/07/2023 to 23/07/2025		

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
702	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Alternative method for determining minimum clearances	Annex G, IEC 60950-1
703	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Alternative method for determining minimum clearances	Annex G, IS 13252 + A1 + A2
704	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Appliance inlets	Clause No. 3.2.4 of IEC 60950-1 +A1 +A2



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
705	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Audio amplifiers in information technology equipment	Clause No. 2.1.1.9 of IEC 60950-1 + A1 + A2
706	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Audio amplifiers in information technology equipment	Clause No. 2.1.1.9 of IS 13252
707	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Audio amplifiers in ITE	Clause No. 5.3.6 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
708	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Audio amplifiers in ITE	Clause No. 5.3.6 of IS 13252
709	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Batteries	Clause No. 4.3.8 of IEC 60950-1 +A1 +A2
710	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Batteries	Clause No. 4.3.8 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
711	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Battery compartments	Clause No. 2.1.1.2 of IEC 60950-1 + A1 + A2
712	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Battery compartments	Clause No. 2.1.1.2 of IS 13252
713	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Beads and ceramic insulators	Clause No. 3.1.5 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
714	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Clearances in primary circuits	Clause No. 2.10.3.3 of IEC 60950-1 +A1 +A2
715	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Clearances in secondary circuits	Clause No. 2.10.3.4 of IEC 60950-1 +A1 +A2
716	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Clearances, Creepage and distance through insulation	Clause No. 2.10 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
717	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Conditions for a fire enclosure	Clause No. 4.7.2 of IEC 60950-1
718	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Conditions for a fire enclosure	Clause No. 4.7.2 of IS 13252
719	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Connection of SELV circuits to other circuits	Clause No. 2.2.4 of IEC 60950-1 + A1 + A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
720	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Connection of SELV circuits to other circuits	Clause No. 2.2.4 of IS 13252
721	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Connection to cable distribution systems	Clause No. 7 of IEC 60950-1
722	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Construction of printed boards	Clause No. 2.10.6 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
723	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Constructional design measures	Clause No. 4.6.4.1 of IEC 60950-1
724	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Constructional design measures	Clause No. 4.6.4.1 of IS 13252
725	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Containers for liquids or gases	Clause No. 4.3.11 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
726	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Containers for liquids or gases	Clause No. 4.3.11 of IS 13252
727	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Cord anchorages and strain relief	Clause No. 3.2.6 of IEC 60950-1 +A1 +A2
728	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Cord guards	Clause No. 3.2.8 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
729	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Creepage distances	Clause No. 2.10.4 of IEC 60950-1 +A1 +A2
730	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Criteria for telephone ringing signals	Annex M, IEC 60950-1
731	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Criteria for telephone ringing signals	Annex M, IS 13252 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
732	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Determination of working voltage	Clause No. 2.10.2 of IEC 60950-1 +A1 +A2
733	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Direct plug-in equipment	Clause No. 4.3.6 of IEC 60950-1 +A1 +A2
734	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Direct plug-in equipment	Clause No. 4.3.6 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
735	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Discharge of capacitors in equipment	Clause No. 2.1.1.7 of IEC 60950-1 + A1 + A2
736	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Discharge of capacitors in equipment	Clause No. 2.1.1.7 of IS 13252
737	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Disconnect devices	Clause No. 1.7.2.2 of IEC 60950-1 + A1 + A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
738	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Disconnect devices	Clause No. 1.7.2.2 of IS 13252
739	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Doors or covers in fire enclosures	Clause No. 4.6.3 of IEC 60950-1 +A1 +A2
740	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Doors or covers in fire enclosures	Clause No. 4.6.3 of IS 13252



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
741	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Drop test	Clause No. 4.2.6 of IEC 60950-1 +A1 +A2
742	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Drop test	Clause No. 4.2.6 of IS 13252
743	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Durability	Clause No. 1.7.11 of IEC 60950-1 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
744	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Durability	Clause No. 1.7.11 of IS 13252
745	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Dust, powders, liquids and gases	Clause No. 4.3.10 of IEC 60950-1 +A1 +A2
746	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Dust, powders, liquids and gases	Clause No. 4.3.10 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
747	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength	Clause No. 2.10.8.3 of IEC 60950-1 +A1 +A2
748	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength	Clause No. 2.8.7.4 of IEC 60950-1 +A1 +A2
749	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength	Clause No. 5.2 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
750	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric Strength	Clause No. 5.3.9.2 of IEC 60950-1
751	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength	Clause No. 6.2.2 of IEC 60950-1
752	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric Strength - Test Procedure	Clause No. 5.2.2 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
753	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric Strength - Test Procedure	Clause No. 5.2.2 of IS 13252
754	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength - Test procedure	Clause No. 6.2.2 of IS 13252
755	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength test	Clause No. 2.8.7.4 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
756	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electrical Insulation	Clause No. 2.9 of IEC 60950-1 +A1 +A2 (93±3 % RH)
757	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electrical Insulation	Clause No. 2.9 of IS 13252 (93±3 % RH)
758	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Enclosed and sealed parts	Clause No. 2.10.12 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
759	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Energy hazards	Clause No. 2.1.1.5 of IEC 60950-1 + A1 + A2
760	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Energy hazards	Clause No. 2.1.1.5 of IS 13252
761	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Energy hazards - d.c. mains supply	Clause No. 2.1.1.8 of IEC 60950-1 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
762	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Energy hazards - d.c. mains supply	Clause No. 2.1.1.8 of IS 13252
763	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Evaluation measures for larger openings	Clause No. 4.6.4.2 of IEC 60950-1
764	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Evaluation measures for larger openings	Clause No. 4.6.4.2 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
765	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Fuse identification	Clause No. 1.7.6 of IEC 60950-1 + A1 + A2
766	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Fuse identification	Clause No. 1.7.6 of IS 13252
767	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Guidance on protection against ingress of water	Annex T, IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
768	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Guidance on protection against ingress of water	Annex T, IS 13252 + A1 + A2
769	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Handles and manual controls	Clause No. 4.3.2 of IEC 60950-1 +A1 +A2
770	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Handles and manual controls	Clause No. 4.3.2 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
771	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Household and home/office document/media shredders	Annex EE, IEC 60950-1
772	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Household and home/office document/media shredders	Annex EE, IS 13252 + A1 + A2
773	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Humidity conditioning	Clause No. 2.9.2 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
774	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Humidity conditioning	Clause No. 2.9.2 of IS 13252
775	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Identification markings	Clause No. 1.7.1.2 of IEC 60950-1 + A1 + A2
776	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Identification markings	Clause No. 1.7.1.2 of IS 13252



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
777	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Impact test	Clause No. 4.2.5 of IEC 60950-1 +A1 +A2
778	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Impact test	Clause No. 4.2.5 of IS 13252
779	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Impulse test	Clause No. 7.4.3 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
780	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Impulse test	Clause No. 7.4.3 of IS 13252
781	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Inadvertent reactivation	Clause No. 2.8.3 of IEC 60950-1 +A1 +A2
782	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Inadvertent reactivation	Clause No. 2.8.3 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
783	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Input current	Clause No. 1.6.2 of IEC 60950-1 + A1 + A2
784	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Input current	Clause No. 1.6.2 of IS 13252
785	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Insulated winding wires for use without interleaved insulation	Annex U, IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
786	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Insulated winding wires for use without interleaved insulation	Annex U, IS 13252 + A1 + A2
787	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Insulation in wound components	Clause No. 2.10.5.11 of IEC 60950-1 +A1 +A2
788	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limit values	Clause No. 2.4.2 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
789	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limit values	Clause No. 2.4.2 of IS 13252
790	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limitation of the touch current to a telecommunication network or to a cable distribution system	Clause No. 5.1.8.1 of IEC 60950-1
791	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limitation of the touch current to a telecommunication network or to a cable distribution system	Clause No. 5.1.8.1 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
792	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limited Current Circuits	Clause No. 2.4 of IEC 60950-1 +A1 +A2
793	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limited Current Circuits	Clause No. 2.4 of IS 13252
794	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limited Power Sources	Clause No. 2.5 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
795	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limited Power Sources	Clause No. 2.5 of IS 13252
796	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limits	Clause No. 2.3.1 of IEC 60950-1 +A1 +A2
797	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Limits	Clause No. 2.3.1 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
798	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Mandrel test	Annex AA, IEC 60950-1
799	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Mandrel test	Annex AA, IS 13252 + A1 + A2
800	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Manual controls	Clause No. 2.1.1.6 of IEC 60950-1 + A1 + A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
801	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Manual controls	Clause No. 2.1.1.6 of IS 13252
802	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Markings and instructions	Clause No. 1.7 of IEC 60950-1 + A1 + A2
803	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Markings and instructions	Clause No. 1.7 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
804	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Markings using figures	Clause No. 1.7.8.4 of IEC 60950-1 + A1 + A2
805	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Markings using figures	Clause No. 1.7.8.4 of IS 13252
806	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Material group and comparative tracking index : CTI tests	Clause No. 2.10.4.2 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
807	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Materials for fire enclosures	Clause No. 4.7.3.2 of IEC 60950-1
808	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Materials for fire enclosures	Clause No. 4.7.3.2 of IS 13252
809	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Measurement of clearances and creepage distances	Annex F, IEC 60950-1





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
810	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Measurement of clearances and creepage distances	Annex F, IS 13252 + A1 + A2
811	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Measurement of transient voltages	Clause No. 2.10.3.9 of IEC 60950-1 +A1 +A2
812	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Measuring instruments for touch current tests	Annex D, IEC 60950-1



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	MARQUIS TECHNOLOGIES PRIVATE LIMITED, A-43, SECTOR 67, NOIDA, UTTAR PRADESH, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
813	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Measuring instruments for touch current tests	Annex D, IS 13252 + A1 + A2
814	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Mechanical Strength	Clause No. 4.2 of IEC 60950-1 +A1 +A2
815	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Mechanical strength	Clause No. 4.2 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
816	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Minimum creepage distances	Clause No. 2.10.4.3 of IEC 60950-1 +A1 +A2
817	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Moving parts	Clause No. 2.8.5 of IEC 60950-1 +A1 +A2
818	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Moving parts	Clause No. 2.8.5 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
819	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Neutral conductor	Clause No. 1.6.4 of IEC 60950-1 + A1 + A2
820	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Neutral conductor	Clause No. 1.6.4 of IS 13252
821	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Non-separable thin sheet material	Clause No. 2.10.5.8 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
822	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Normal load conditions for some types of electrical business equipment	Annex L, IS 13252 + A1 + A2
823	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Opening in Enclosures	Clause No. 4.6 of IEC 60950-1 +A1 +A2
824	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Opening in enclosures	Clause No. 4.6 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
825	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Operator access with a tool	Clause No. 1.7.2.5 of IEC 60950-1 + A1 + A2
826	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Operator access with a tool	Clause No. 1.7.2.5 of IS 13252
827	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Overcurrent and earth fault protection in primary circuits	Clause No. 2.7 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
828	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Overcurrent and earth fault protection in primary circuits	Clause No. 2.7 of IS 13252
829	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Overcurrent protective devices	Clause No. 1.7.2.3 of IEC 60950-1 + A1 + A2
830	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Overcurrent protective devices	Clause No. 1.7.2.3 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
831	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Peak working voltage	Clause No. 2.10.2.3 of IEC 60950-1 +A1 +A2
832	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power Interface	Clause No. 1.6 of IEC 60950-1 + A1 + A2
833	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power interface	Clause No. 1.6 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
834	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power outlets on the equipment	Clause No. 1.7.5 of IEC 60950-1 + A1 + A2
835	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power rating and identification markings	Clause No. 1.7.1 of IEC 60950-1 + A1 + A2
836	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power rating and identification markings	Clause No. 1.7.1 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
837	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power rating markings	Clause No. 1.7.1.1 of IEC 60950-1 + A1 + A2
838	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power rating markings	Clause No. 1.7.1.1 of IS 13252
839	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power supply cords	Clause No. 3.2.5 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
840	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Properties of insulating materials	Clause No. 2.9.1 of IEC 60950-1 +A1 +A2
841	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Properties of insulating materials	Clause No. 2.9.1 of IS 13252
842	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection against hazardous moving parts	Clause No. 4.4 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
843	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection against hazardous moving parts	Clause No. 4.4 of IS 13252
844	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection from Electric shock & Energy hazard)	Clause No. 2.1 of IEC 60950-1 + A1 + A2
845	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection from Electric shock & Energy hazard)	Clause No. 2.1 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
846	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection from hazardous voltages	Clause No. 6.1.1 of IEC 60950-1
847	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection from hazardous voltages	Clause No. 6.1.1 of IS 13252
848	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection in operator access areas	Clause No. 2.1.1 of IEC 60950-1 + A1 + A2



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	MARQUIS TECHNOLOGIES PRIVATE LIMITED, A-43, SECTOR 67, NOIDA, UTTAR PRADESH, INDIA		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
849	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection in operator access areas	Clause No. 2.1.1 of IS 13252
850	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection in restricted access locations	Clause No. 2.1.3 of IEC 60950-1 + A1 + A2
851	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection in restricted access locations	Clause No. 2.1.3 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
852	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection in service access areas	Clause No. 2.1.2 of IEC 60950-1 + A1 + A2
853	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection in service access areas	Clause No. 2.1.2 of IS 13252
854	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection requirements	Clause No. 2.8.2 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
855	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protection requirements	Clause No. 2.8.2 of IS 13252
856	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protective earthing and bonding terminals	Clause No. 1.7.7.1 of IEC 60950-1 + A1 + A2
857	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protective earthing and bonding terminals	Clause No. 1.7.7.1 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
858	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protective earthing and bonding terminals	Clause No. 2.6.4.2 of IEC 60950-1 +A1 +A2
859	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protective earthing and bonding terminals	Clause No. 2.6.4.2 of IS 13252
860	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protective earthing and protective bonding conductors	Clause No. 2.6.3 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
861	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Protective earthing and protective bonding conductors	Clause No. 2.6.3 of IS 13252
862	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Provisions for earthing and bonding	Clause No. 2.6.1 of IEC 60950-1 +A1 +A2
863	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Reduced values for functional insulation	Clause No. 2.10.1.3 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
864	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Reducing the risk of ignition and spread of flame	Clause No. 4.7.1 of IEC 60950-1
865	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Reducing the risk of ignition and spread of flame	Clause No. 4.7.1 of IS 13252
866	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Redundant multiple connections to an a.c. mains supply	Clause No. 5.1.2.2 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
867	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Reliance on telecommunication network or cable distribution system	Clause No. 2.6.5.8 of IEC 60950-1 +A1 +A2
868	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Reliance on telecommunication network or cable distribution system	Clause No. 2.6.5.8 of IS 13252
869	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Removable parts	Clause No. 1.7.12 of IEC 60950-1 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
870	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Removable parts	Clause No. 1.7.12 of IS 13252
871	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Replaceable batteries	Clause No. 1.7.13 of IEC 60950-1 + A1 + A2
872	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Replaceable batteries	Clause No. 1.7.13 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
873	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Resistance of earthing conductors and their terminations	Clause No. 2.6.3.4 of IEC 60950-1 +A1 +A2
874	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Resistance to abnormal heat	Clause No. 4.5.5 of IEC 60950-1 +A1 +A2
875	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Resistance to abnormal heat	Clause No. 4.5.5 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
876	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	RMS working voltage	Clause No. 2.10.2.2 of IEC 60950-1 +A1 +A2
877	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Safety instructions and marking	Clause No. 1.7.2 of IEC 60950-1 + A1 + A2
878	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Safety instructions and marking	Clause No. 1.7.2 of IS 13252



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879	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Safety interlocks	Clause No. 2.8 of IEC 60950-1 +A1 +A2
880	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Safety interlocks	Clause No. 2.8 of IS 13252
881	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Screws for electrical contact pressure	Clause No. 3.1.6 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
882	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Screws for protective bonding	Clause No. 2.6.5.7 of IEC 60950-1 +A1 +A2
883	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Screws for protective bonding	Clause No. 2.6.5.7 of IS 13252
884	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Securing of parts	Clause No. 4.3.4 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
885	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Securing of parts	Clause No. 4.3.4 of IS 13252
886	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Self-tapping and spaced thread screws	Clause No. 3.1.8 of IEC 60950-1 +A1 +A2
887	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	SELV Circuits	Clause No. 2.2 of IEC 60950-1 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
888	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	SELV Circuits	Clause No. 2.2 of IS 13252
889	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separable thin sheet material	Clause No. 2.10.5.7 of IEC 60950-1 +A1 +A2
890	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation distances for contact gaps and their related circuits	Clause No. 2.8.7.1 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
891	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation distances for contact gaps and their related circuits	Clause No. 2.8.7.1 of IS 13252
892	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation from hazardous voltages	Clause No. 2.9.4 of IEC 60950-1 +A1 +A2
893	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation of the protective earthing conductor from protective bonding conductors	Clause No. 2.6.4.3 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
894	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation of the protective earthing conductor from protective bonding conductors	Clause No. 2.6.4.3 of IS 13252
895	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation of the telecommunication network from earth*	Clause No. 6.1.2 of IEC 60950-1
896	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation of TNV circuits from other circuits and from accessible parts	Clause No. 2.3.2 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
897	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation of TNV circuits from other circuits and from accessible parts	Clause No. 2.3.2 of IS 13252
898	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Short duty cycles	Clause No. 1.7.3 of IEC 60950-1 + A1 + A2
899	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Short duty cycles	Clause No. 1.7.3 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
900	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Short-circuit backup protection	Clause No. 2.7.3 of IS 13252
901	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Short-circuit backup protection	Clause No. 2.7.3 of IEC 60950-1 +A1 +A2
902	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Simulation of faults	Clause No. 5.3.7 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
903	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Simulation of faults	Clause No. 5.3.7 of IEC 60950-1
904	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Simultaneous multiple connections to an a.c. mains supply	Clause No. 5.1.2.3 of IEC 60950-1
905	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Simultaneous multiple connections to an a.c. mains supply	Clause No. 5.1.2.3 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
906	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Simultaneous multiple connections to the supply	Clause No. 5.1.7.2 of IEC 60950-1
907	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Simultaneous multiple connections to the supply	Clause No. 5.1.7.2 of IS 13252
908	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Single connection to an a.c. mains supply	Clause No. 5.1.2.1 of IEC 60950-1





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
909	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Single connection to an a.c. mains supply	Clause No. 5.1.2.1 of IS 13252
910	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Size of protective bonding conductors	Clause No. 2.6.3.3 of IEC 60950-1 +A1 +A2
911	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Size of protective bonding conductors	Clause No. 2.6.3.3 of IS 13252



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912	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Size of protective earthing conductors	Clause No. 2.6.3.2 of IEC 60950-1 +A1 +A2
913	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Size of protective earthing conductors	Clause No. 2.6.3.2 of IS 13252
914	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Sleeving on wiring	Clause No. 3.1.10 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
915	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Solid insulation	Clause No. 2.10.5 of IEC 60950-1 +A1 +A2
916	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Stability	Clause No. 4.1 of IEC 60950-1 +A1 +A2
917	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Stability	Clause No. 4.1 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
918	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady force test, 10 N	Clause No. 4.2.2 of IEC 60950-1 +A1 +A2
919	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady force test, 10 N	Clause No. 4.2.2 of IS 13252
920	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady force test, 250 N	Clause No. 4.2.4 of IEC 60950-1 +A1 +A2



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
921	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady force test, 250 N	Clause No. 4.2.4 of IS 13252
922	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady force test, 30 N	Clause No. 4.2.3 of IS 13252
923	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady force test, 30 N	Clause No. 4.2.3 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
924	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady-state test	Clause No. 6.2.2.2 of IEC 60950-1
925	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Steady-state test	Clause No. 6.2.2.2 of IS 13252
926	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Stranded wire	Clause No. 3.3.8 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
927	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Stress relief test	Clause No. 4.2.7 of IEC 60950-1 +A1 +A2
928	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Stress relief test	Clause No. 4.2.7 of IS 13252
929	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Summation of touch currents from telecommunication networks	Clause No. 5.1.8.2 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
930	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Summation of touch currents from telecommunication networks	Clause No. 5.1.8.2 of IS 13252
931	ELECTRONICS- IT EQUIPMENT	printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Supply voltage adjustment	Clause No. 1.7.4 of IEC 60950-1 + A1 + A2
932	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Supply voltage adjustment	Clause No. 1.7.4 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
933	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Supply wiring space	Clause No. 3.2.9 of IEC 60950-1 +A1 +A2
934	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Switches as disconnect devices	Clause No. 3.4.8 of IEC 60950-1 +A1 +A2
935	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Switches in flexible cords	Clause No. 3.4.5 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
936	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Temperature limits for materials	Clause No. 4.5.3 of IS 13252
937	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Temperature limits for materials	Clause No. 4.5.3 of IEC 60950-1 +A1 +A2
938	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Temperature tests	Clause No. 4.5.2 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
939	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Temperature tests	Clause No. 4.5.2 of IEC 60950-1 +A1 +A2
940	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Terminals	Clause No. 2.6.4 of IEC 60950-1 +A1 +A2
941	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Terminals	Clause No. 2.6.4 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
942	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Terminals for a.c. mains supply conductors	Clause No. 1.7.7.2 of IEC 60950-1 + A1 + A2
943	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Terminals for a.c. mains supply conductors	Clause No. 1.7.7.2 of IS 13252
944	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Terminals for d.c. mains supply conductors	Clause No. 1.7.7.3 of IEC 60950-1 + A1 + A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
945	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Terminals for d.c. mains supply conductors	Clause No. 1.7.7.3 of IS 13252
946	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Termination of conductors	Clause No. 3.1.9 of IEC 60950-1 +A1 +A2
947	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Test for operating voltages generated externally	Clause No. 2.3.5 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
948	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Test for operating voltages generated externally	Clause No. 2.3.5 of IS 13252
949	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Test for Pollution Degree 1 environment and insulating compound	Clause No. 2.10.10 of IEC 60950-1 +A1 +A2
950	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Tests for resistance to heat and fire	Annex A, IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
951	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Tests for resistance to heat and fire	Annex A, IS 13252 + A1 + A2
952	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermal conditioning	Clause No. 2.10.8.2 of IEC 60950-1 +A1 +A2
953	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermal cycling	Clause No. 2.10.9





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
954	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermal Requirements	Clause No. 4.5 of IEC 60950-1 +A1 +A2
955	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermostats and other regulating devices	Clause No. 1.7.10 of IEC 60950-1 + A1 + A2
956	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thin sheet material – alternative test procedure	Clause No. 2.10.5.10 of IEC 60950-1 +A1 +A2



# National Accreditation Board for Testing and Calibration Laboratories

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
957	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thin sheet material - General	Clause No. 2.10.5.6 of IEC 60950-1 +A1 +A2
958	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thin sheet material - standard test procedure	Clause No. 2.10.5.9 of IEC 60950-1 +A1 +A2
959	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	TNV Circuits	Clause No. 2.3 of IEC 60950-1 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
960	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	TNV Circuits	Clause No. 2.3 of IS 13252
961	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Top and side openings	Clause No. 4.6.1 of IEC 60950-1 +A1 +A2
962	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Top and side openings	Clause No. 4.6.1 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
963	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Touch current and protective conductor current - Test measurements	Clause No. 5.1.6 of IS 13252
964	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Touch current and protective conductor current - Test measurements	Clause No. 5.1.6 of IEC 60950-1
965	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Touch current and protective conductor current - Test procedure	Clause No. 5.1.5 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
966	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Touch current and protective conductor current - Test procedure	Clause No. 5.1.5 of IS 13252
967	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Transients from a.c. mains supply	Clause No. 2.10.3.6 of IEC 60950-1 +A1 +A2
968	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Transients from d.c. mains supply :	Clause No. 2.10.3.7 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
969	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Transients from telecommunication networks and cable distribution systems	Clause No. 2.10.3.8 of IEC 60950-1 +A1 +A2
970	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Types of interconnection circuits	Clause No. 3.5.2 of IEC 60950-1 +A1 +A2
971	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Types of interconnection circuits	Clause No. 3.5.2 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
972	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Unattended equipment	Clause No. 5.3.8 of IEC 60950-1
973	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Unattended equipment	Clause No. 5.3.8 of IS 13252
974	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Uncoated printed boards	Clause No. 2.10.6.1 of IEC 60950-1 +A1 +A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
975	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Use of graphical symbols	Clause No. 1.7.1.3 of IEC 60950-1 + A1 + A2
976	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Use of graphical symbols	Clause No. 1.7.1.3 of IS 13252
977	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Use of metalized parts	Clause No. 4.6.4.3 of IEC 60950-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
978	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Use of metalized parts	Clause No. 4.6.4.3 of IS 13252
979	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltage limit of hand-held equipment	Clause No. 1.6.3 of IEC 60950-1 + A1 + A2
980	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltage limit of hand-held equipment	Clause No. 1.6.3 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
981	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltage surge test	Clause No. 7.4.2 of IEC 60950-1
982	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltage surge test	Clause No. 7.4.2 of IS 13252
983	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltages under fault conditions	Clause No. 2.2.3 of IEC 60950-1 + A1 + A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
984	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltages under fault conditions	Clause No. 2.2.3 of IS 13252
985	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltages under normal conditions	Clause No. 2.2.2 of IEC 60950-1 + A1 + A2
986	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Voltages under normal conditions	Clause No. 2.2.2 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
987	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wall or ceiling mounted equipment; force(N)	Clause No. 4.2.10 of IEC 60950-1 +A1 +A2
988	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wall or ceiling mounted equipment; force(N)	Clause No. 4.2.10 of IS 13252
989	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Warning to service personnel	Clause No. 2.7.6 of IEC 60950-1 +A1 +A2





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
990	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Warning to service personnel	Clause No. 2.7.6 of IS 13252
991	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wiring terminal design	Clause No. 3.3.6 of IEC 60950-1 +A1 +A2
992	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wiring Terminal for connection of external conductors	Clause No. 3.3 of IEC 60950-1 +A1 +A2



# National Accreditation Board for Testing and Calibration Laboratories

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<b>Validity</b>	24/07/2023 to 23/07/2025		

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
993	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wiring terminals	Clause No. 1.7.7 of IEC 60950-1 + A1 + A2
994	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wiring terminals	Clause No. 1.7.7 of IS 13252
995	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Abrasion resistance test	Clause No. 2.10.8.4 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
996	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	AC power supply cords	Clause No. 3.2.5.1 to IS 13252
997	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Additional insulation in wound components	Clause No. 2.10.5.14 of IS 13252
998	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Appliance inlets	Clause No. 3.2.4 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
999	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Beads and ceramic insulators	Clause No. 3.1.5 of IS 13252
1000	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Clearances in primary circuits	Clause No. 2.10.3.3 to IS 13252
1001	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Clearances in secondary circuits	Clause No. 2.10.3.4 to IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1002	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Clearances, creepage and distance through insulation	Clause No. 2.10 of IS 13252
1003	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Construction of printed boards	Clause No. 2.10.6 of IS 13252
1004	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Cord anchorages and strain relief	Clause No. 3.2.6 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1005	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Cord guards	Clause No. 3.2.8 to IS 13252
1006	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Creepage distances	Clause No. 2.10.4 of IS 13252
1007	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Determination of working voltage	Clause No. 2.10.2 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1008	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Electric strength test	Clause No. 2.10.8.3 of IS 13252
1009	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Enclosed and sealed parts	Clause No. 2.10.12 of IS 13252
1010	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Insulation in wound components	Clause No. 2.10.5.11 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1011	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Material group and comparative tracking index : CTI tests	Clause No. 2.10.4.2 of IS 13252
1012	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Measurement of transient voltages	Clause No. 2.10.3.9 of IS 13252
1013	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Minimum creepage distances	Clause No. 2.10.4.3 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1014	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Non-separable thin sheet material	Clause No. 2.10.5.8 of IS 13252
1015	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Peak working voltage	Clause No. 2.10.2.3 to IS 13252
1016	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power outlets on the equipment	Clause No. 1.7.5 of IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1017	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Power supply cords	Clause No. 3.2.5 of IS 13252
1018	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Reduced values for functional insulation	Clause No. 2.10.1.3 to IS 13252
1019	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Resistance of earthing conductors and their terminations	Clause No. 2.6.3.4 to IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1020	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	RMS working voltage	Clause No. 2.10.2.2 of IS 13252
1021	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Screws for electrical contact pressure	Clause No. 3.1.6 of IS 13252
1022	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Self-tapping and spaced thread screws	Clause No. 3.1.8 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1023	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separable thin sheet material	Clause No. 2.10.5.7 to IS 13252
1024	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Separation from hazardous voltages	Clause No. 2.9.4 of IS 13252
1025	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Sleeving on wiring	Clause No. 3.1.10 to IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1026	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Solid insulation	Clause No. 2.10.5 of IS 13252
1027	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Stranded wire	Clause No. 3.3.8 to IS 13252
1028	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Supply wiring space	Clause No. 3.2.9 of IS 13252



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

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<b>Accreditation Standard</b>	ISO/IEC 17025:2017	<b>Last Amended on</b>	22/06/2024
<b>Certificate Number</b>	TC-11960		
<b>Validity</b>	24/07/2023 to 23/07/2025		

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1029	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Switches as disconnect devices	Clause No. 3.4.8 of IS 13252
1030	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Switches in flexible cords	Clause No. 3.4.5 of IS 13252
1031	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Termination of conductors	Clause No. 3.1.9 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1032	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Test for Pollution Degree 1 environment and insulating compound	Clause No. 2.10.10 of IS 13252
1033	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermal conditioning	Clause No. 2.10.8.2 of IS 13252
1034	ELECTRONICS- IT EQUIPMENT	printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermal cycling	Clause No. 2.10.9 to IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1035	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thermostats and other regulating devices	Clause No. 1.7.10 of IS 13252
1036	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thin sheet material – alternative test procedure	Clause No. 2.10.5.10 to IS 13252
1037	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thin sheet material – General	Clause No. 2.10.5.6 to IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1038	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Thin sheet material - standard test procedure	Clause No. 2.10.5.9 of IS 13252
1039	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Transients from a.c. mains supply	Clause No. 2.10.3.6 of IS 13252
1040	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Transients from d.c. mains supply	Clause No. 2.10.3.7 of IS 13252



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1041	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Transients from telecommunication networks and cable distribution systems	Clause No. 2.10.3.8 of IS 13252
1042	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Uncoated printed boards	Clause No. 2.10.6.1 of IS 13252
1043	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wiring terminal design	Clause No. 3.3.6 to IS 13252





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1044	ELECTRONICS- IT EQUIPMENT	Printer, smart watch, cctv camera, CCTV recorder, wireless keyboard, VDU, power adapter ,mobile , telephone answering machine, projectors, all in one computer, bar code scanner, iris scanner, power bank, ADPM , set top box, server, laptop, notebook, tablet, plotters, scanner, smart card reader, passport reader, point of sale terminal, mail processing machine/ postage machine/franking machine, Optical finger print scanner, USB driven bar code reader and other electronics , telecommunication and information products	Wiring Terminal for connection of external conductors	Clause No. 3.3 of IS 13252