



Scope of Accreditation for Testing

As per ISO/IEC 17025

CAB Name : International Center Testing Lab
Address : D-219, Sector 10, Noida- 201301, U.P.
Certificate No. : T-0050

Page No. 1 of 64
Issue date : 18.04.2026
Validity : 17.04.2030

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
Discipline: Electronics Group: Environmental Test Facility					
1	Electrical & Electronics items	Degree of Ingress protection (IP1X)	Qualitative Rigid Sphere 50mm	IS/IEC 60529	Permanent
2	Electrical & Electronics items	Degree of Ingress protection (IP2X)	Qualitative Rigid Sphere 12.5mm	IS/IEC 60529	Permanent
3	Electrical & Electronics items	Degree of Ingress protection (IP3X)	Qualitative Rigid Sphere 2.5mm	IS/IEC 60529	Permanent
4	Electrical & Electronics items	Degree of Ingress protection (IP4X)	Qualitative Rigid Sphere 1mm	IS/IEC 60529	Permanent
5	Electrical & Electronics items	Degree of Ingress protection (IP5X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	IS/IEC 60529	Permanent
6	Electrical & Electronics items	Degree of Ingress protection (IP6X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	IS/IEC 60529	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
7	Electrical & Electronics items	Degree of Ingress protection (IPX1)	Qualitative Water flow rate 1mm/min	IS/IEC 60529	Permanent
8	Electrical & Electronics items	Degree of Ingress protection (IPX2)	Qualitative Water flow rate 3mm/min	IS/IEC 60529	Permanent
9	Electrical & Electronics items	Degree of Ingress protection (IPX3)	Qualitative Oscillating tube dia. 1600mm and rotating angle 60°, 120°.	IS/IEC 60529	Permanent
10	Electrical & Electronics items	Degree of Ingress protection (IPX4)	Qualitative Oscillating tube dia. 1600mm and rotating angle 180°, 360°.	IS/IEC 60529	Permanent
11	Electrical & Electronics items	Degree of Ingress protection (IPX5)	Qualitative Jet Nozzle Dia. 6.3 mm	IS/IEC 60529	Permanent
12	Electrical & Electronics items	Degree of Ingress protection (IPX6)	Qualitative Jet Nozzle Dia. 12.5 mm	IS/IEC 60529	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
13	Electrical & Electronics items	Degree of Ingress protection (IPX7)	Qualitative Water tank with height 1 m	IS/IEC 60529	Permanent
14	Electrical & Electronics items	Degree of Ingress protection (IPX8)	Qualitative Water tank with height 1 m	IS/IEC 60529	Permanent
15	Electrical & Electronics items	Degree of Ingress protection (IP1X)	Qualitative Rigid Sphere 50mm	ISO 20653	Permanent
16	Electrical & Electronics items	Degree of Ingress protection (IP2X)	Qualitative Rigid Sphere 12.5mm	ISO 20653	Permanent
17	Electrical & Electronics items	Degree of Ingress protection (IP3X)	Qualitative Rigid Sphere 2.5mm	ISO 20653	Permanent
18	Electrical & Electronics items	Degree of Ingress protection (IP4X)	Qualitative Rigid Sphere 1mm	ISO 20653	Permanent
19	Electrical & Electronics items	Degree of Ingress protection (IP5X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	ISO 20653	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
20	Electrical & Electronics items	Degree of Ingress protection (IP6X)	Qualitative Dust Chamber Size (L:1m, W:1.5m, and H: 1m)	ISO 20653	Permanent
21	Electrical & Electronics items	Degree of Ingress protection (IPX1)	Qualitative Water flow rate 1mm/min	ISO 20653	Permanent
22	Electrical & Electronics items	Degree of Ingress protection (IPX2)	Qualitative Water flow rate 3mm/min	ISO 20653	Permanent
23	Electrical & Electronics items	Degree of Ingress protection (IPX3)	Qualitative Oscillating tube dia. 1600mm and rotating angle 60 °, 120 °.	ISO 20653	Permanent
24	Electrical & Electronics items	Degree of Ingress protection (IPX4)	Qualitative Oscillating tube dia. 1600mm and rotating angle 180 °, 360 °.	ISO 20653	Permanent
25	Electrical & Electronics items	Degree of Ingress protection (IPX5)	Qualitative Jet Nozzle Dia. 6.3 mm	ISO 20653	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
26	Electrical & Electronics items	Degree of Ingress protection (IPX6)	Qualitative Jet Nozzle Dia. 12.5 mm	ISO 20653	Permanent
27	Electrical & Electronics items	Degree of Ingress protection (IPX7)	Qualitative Water tank with height 1 m	ISO 20653	Permanent
28	Electrical & Electronics items	Degree of Ingress protection (IPX8)	Qualitative Water tank with height 1 m	ISO 20653	Permanent
29	Procedure for basic climatic and durability tests	Dry Heat Test	Qualitative Amb to 250°C	IS 10236 – 1	Permanent
30	Procedure for basic climatic and durability tests	Cold Test	Qualitative -40°C to 150°C	IS 10236 – 1	Permanent
31	Procedure for basic climatic and durability tests	Damp heat test	Qualitative Amb to 250°C	IS 10236 – 1	Permanent
32	Procedure for basic climatic and durability tests	Damp heat cyclic test	Qualitative -40°C to 150°C	IS 10236 – 1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
33	Procedure for basic climatic and durability tests	Thermal shock test (Rapid change of temperature)	Qualitative -40°C to 150°C	IS 10236 – 1	Permanent
34	Procedure for basic climatic and durability tests	Bump test	Qualitative 100g	IS 10236 – 1	Permanent
35	Procedure for basic climatic and durability tests	Vibration test	Qualitative 2 to 3000Hz	IS 10236 – 1	Permanent
36	Procedure for basic climatic and durability tests	Shock test	Qualitative	IS 10236 – 1	Permanent
Discipline: Electronics Group: IT Equipment's					
37	IT PRODUCTS	Components	Qualitative	(Cl.1.5) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
38	IT PRODUCTS	Power Interface	1V-300 V	(Cl.1.6) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
39	IT PRODUCTS	Marking & Instructions	Qualitative	(Cl.1.7) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
40	IT PRODUCTS	Protection From Electric Shock and Energy Hazards	Qualitative	(Cl.2.1) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
41	IT PRODUCTS	SELV Circuits	1V-300V	(Cl.2.2) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 +A1 + A2	Permanent
42	IT PRODUCTS	TNV Circuits	Qualitative	(Cl.2.3) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
43	IT PRODUCTS	Limited current circuits	Qualitative	(Cl.2.4) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
44	IT PRODUCTS	Limited Power sources	1V-300V	(Cl.2.5) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
45	IT PRODUCTS	Provisions for earthing and bonding	0.01V-99.9 V	(Cl.2.6) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
46	IT PRODUCTS	Over current and earth fault	Qualitative	(Cl.2.7) IS 13252 (Part 1) + A1+ A2 /	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		Protection in Primary Circuits		IEC/EN 60950-1 + A1 + A2	
47	IT PRODUCTS	Safety Interlocks	Qualitative	(Cl.2.8) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
48	IT PRODUCTS	Electrical Insulation	Qualitative	(Cl.2.9) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
49	IT PRODUCTS	Clearances, Creepage distances and distances through insulation	0.01mm to 150 mm	(Cl.2.10) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
50	IT PRODUCTS	wiring, connections and supply	Qualitative	(Cl.3.1) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
51	IT PRODUCTS	connection to main supply	Qualitative	(Cl.3.2) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
52	IT PRODUCTS	wiring terminals for connection of external conductors	Qualitative	(Cl.3.3) IS 13252 (Part 1) + A1+ A2 /	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
				IEC/EN 60950-1 + A1 + A2	
53	IT PRODUCTS	Disconnection For the Main Supply	Qualitative	(Cl.3.4) IS 13252 (Part 1) + A1+ A2/ IEC/EN 60950-1 + A1 + A2	Permanent
54	IT PRODUCTS	Interconnection Of Equipment	Qualitative	(Cl.3.5) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
55	IT PRODUCTS	Stability, Mechanical strength	Qualitative	(Cl.4.1, Cl.4.2) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950- 1 + A1 + A2	Permanent
56	IT PRODUCTS	Design and construction	Qualitative	(Cl.4.3) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
57	IT PRODUCTS	Protection against hazardous moving parts	Qualitative	(Cl.4.4) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
58	IT PRODUCTS	Thermal Requirements	1°C to 600 °C	(Cl.4.5) IS 13252 (Part 1) + A1+ A2 /	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
				IEC/EN 60950-1 + A1 + A2: 202413	
59	IT PRODUCTS	Openings In Enclosures	0.01 to 150 mm	(Cl.4.6) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
60	IT PRODUCTS	Resistance To Fire	0.01-150mm	(Cl.4.7) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 +A1 + A2	Permanent
61	IT PRODUCTS	Electrical requirements and simulated Abnormal Conditions (Cl.5),	Qualitative	(Cl.5) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
62	IT PRODUCTS	Electric Strength	Qualitative	(Cl.5.2) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
63	IT PRODUCTS	Abnormal Operating and Fault Conditions	Qualitative	(Cl.5.3) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
64	IT PRODUCTS	Protection of telecommunication network service persons, and users	Qualitative	(Cl.6.1) IS 13252 (Part 1) + A1+ A2 /	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		of other equipment connected to the network, from hazards in the equipment		IEC/EN 60950-1 + A1 + A2	
65	IT PRODUCTS	Protection of equipment users from over voltages on telecommunication networks	Qualitative	(Cl.6.2) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
66	IT PRODUCTS	Protection of the telecommunication wiring system from overheating	Qualitative	(Cl.6.3) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 +A1 + A2	Permanent
67	IT PRODUCTS	Connection to cable distribution systems	Qualitative	(Cl.7) IS 13252 (Part 1) + A1+ A2 / IEC/EN 60950-1 + A1 + A2	Permanent
Discipline: Electronics Group: Audio, Video and Similar Electronic Apparatus					
68		Electric Shock Hazard under Normal Operating Conditions	Qualitative	Cl. 9 IS 616/ IEC 60065	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
69	Audio, Video and Similar Electronic Apparatus: (Amplifiers with input power 2000W and above, Electronic games (Video), Plasma/LCD/LED TV of screen size 32" & above, Electronic musical system with input power 200W and above, Optical disc player with built in amplifiers of input power 200W and above, Power adopters for audio, video & similar electronic apparatus, Plasma/ LCD/LED TV of screen size up to 32", Wireless headphone and earphone, Electronic Musical System with input power below 200W, Television other than	Constructional requirements with regard to the protection against electric shock	Qualitative	Cl. 8 IS 616/ IEC 60065	Permanent
70		Clearance and Creepage Distance	0.01mm to 150 mm	Cl. 13 IS 616/ IEC 60065	Permanent
71		Electrical Connections & Mechanical Fixings	Qualitative	Cl. 17 IS 616/ IEC 60065	Permanent
72		External Flexible Cords	Qualitative	Cl. 16 IS 616/ IEC 60065	Permanent
73		Fault conditions	Qualitative	Cl. 11 IS 616/ IEC 60065	Permanent
74		Hazardous Radiations	Qualitative	Cl. 6 IS 616/ IEC 60065	Permanent
75		Heating under Normal Operating Conditions	1°C to 600 °C	Cl. 7 IS 616/ IEC 60065	Permanent
76		insulation requirements (surge test, humidity treatment, insulation resistance and	Qualitative	Cl. 10 IS 616/ IEC 60065	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	plasma/LCD/LED/ TVs, Wireless microphone, Video camera, Webcam (Finished product), Smart speaker (with and without display), Bluetooth speakers) and other equipment.	dielectric strength test)			
77		marking and instructions	Qualitative	Cl. 5 IS 616/ IEC 60065	Permanent
78		Mechanical Strength	Qualitative	Cl. 12 IS 616/ IEC 60065	Permanent
79		Mechanical Strength of Picture Tubes and Protection against the Effects of Implosion	Qualitative	Cl. 18 IS 616/ IEC 60065	Permanent
80		Power consumption (General Test Conditions)	1Vto 300V	Cl. 4 IS 616/ IEC 60065	Permanent
81		Resistance to Fire	0.01mm to 150 mm	Cl. 20 IS 616/ IEC 60065	Permanent
82		Stability and Mechanical Hazards	Qualitative	Cl. 19 IS 616/ IEC 60065	Permanent
83		Surge Test	Qualitative	Cl. 10.2 IS 616/ IEC 60065/ IEC 61000-4- 5/ IEC 62305, IEC 61643-11	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
84		Terminals	0.01mm to 150 mm	Cl. 15 IS 616/ IEC 60065	Permanent
85		Verification of Declaration/Rating/ Documents (General requirements)	Qualitative	Cl. 3 IS 616/ IEC 60065	Permanent
86		Verification of Declaration/Rating/ Documents of components	Qualitative	Cl. 14 IS 616/ IEC 60065	Permanent
87	Audio / Video, Information and Communication Technology Equipment	Markings and instructions	Qualitative	Cl. 4.1.5, IS/IEC 62368-1	Permanent
88	Audio / Video, Information and Communication Technology Equipment	Accessibility to electrical energy sources and safeguards	Qualitative	Cl. 5.3.2, IS/IEC 62368-1	Permanent
89	Audio / Video, Information and Communication Technology Equipment	Antenna terminal insulation	Qualitative	Cl. 5.4.5, IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
90	Audio / Video, Information and Communication Technology Equipment	Ball pressure	1-150mm	5.4.1.10.3, IS/IEC 62368-1	Permanent
91	Audio / Video, Information and Communication Technology Equipment	Capacitor discharge	Qualitative	Cl. 5.5.2.2, IS/IEC 62368-1	Permanent
92	Audio / Video, Information and Communication Technology Equipment	Cart stand or carrier loading	Qualitative	Cl. 8.10.3, IS/IEC 62368-1	Permanent
93	Audio / Video, Information and Communication Technology Equipment	Clearance	0-150mm	Cl. 5.4.2, IS/IEC 62368-1	Permanent
94	Audio / Video, Information and Communication Technology Equipment	Creepage distances	0-150mm	Cl. 5.4.3, IS/IEC 62368-1	Permanent
95	Audio / Video, Information and Communication	Criteria for telephone ringing	Qualitative	Annex H, IS/IEC 62368- 1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Technology Equipment	signals (TNV circuit test)			
96	Audio / Video, Information and Communication Technology Equipment	Drop	Qualitative	Annex T.7, IS/IEC 62368- 1	Permanent
97	Audio / Video, Information and Communication Technology Equipment	Durability, Legibility and Permanence of Markings	Qualitative	Annex F.3.9, IS/IEC 62368- 1	Permanent
98	Audio / Video, Information and Communication Technology Equipment	Electric strength	Qualitative	Cl. 5.4.9, IS/IEC 62368-1	Permanent
99	Audio / Video, Information and Communication Technology Equipment	Enclosure impact	Qualitative	Annex T.6 & T.9, IS/IEC 62368-1	Permanent
100	Audio / Video, Information and Communication Technology Equipment	Equipment For Direct Insertion into Mains Socket- Outlets	Qualitative	Cl. 4.7, IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
101	Audio / Video, Information and Communication Technology Equipment	Equipment mounted to a wall or ceiling	Qualitative	Cl. 8.7, IS/IEC 62368-1	Permanent
102	Audio / Video, Information and Communication Technology Equipment	Fixing Conductor	Qualitative	Cl. 4.6, IS/IEC 62368-1	Permanent
103	Audio / Video, Information and Communication Technology Equipment	Handle strength	Qualitative	Cl. 8.8, IS/IEC 62368-1	Permanent
104	Audio / Video, Information and Communication Technology Equipment	Horizontal force	Qualitative	Cl. 8.6.5, IS/IEC 62368-1	Permanent
105	Audio / Video, Information and Communication Technology Equipment	Humidity conditioning	Qualitative	Cl. 5.4.8, IS/IEC 62368-1	Permanent
106	Audio / Video, Information and Communication	Impulse	Qualitative	Cl. 5.4.10.2.2, IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Technology Equipment				
107	Audio / Video, Information and Communication Technology Equipment	Input Test	1-5000W	Annex B.2.5, IS/IEC 62368-1	Permanent
108	Audio / Video, Information and Communication Technology Equipment	limited power source	Qualitative	Annex Q.1, IS/IEC 62368- 1	Permanent
109	Audio / Video, Information and Communication Technology Equipment	Mains Supply Cords (Cord Anchorage)	Qualitative	Annex G.7, IS/IEC 62368- 1	Permanent
110	Audio / Video, Information and Communication Technology Equipment	Maximum Operating Temperature (Temperature Measurement)	0.1°C -600°C	Cl. 5.4.1.4, IS/IEC 62368-1	Permanent
111	Audio / Video, Information and Communication Technology Equipment	Power Source Circuit Classification	Qualitative	Cl. 6.2.2, IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
112	Audio / Video, Information and Communication Technology Equipment	Prospective touch voltage, touch current and protective conductor current	Qualitative	Cl. 5.7, IS/IEC 62368-1	Permanent
113	Audio / Video, Information and Communication Technology Equipment	Resistance of the Protective Bonding System (Earth bond)	0.01V99.9V, 0.01A50A	Cl. 5.6.6, IS/IEC 62368-1	Permanent
114	Audio / Video, Information and Communication Technology Equipment	RMS working voltage/Peak working voltage (working voltage)	1V-600V	Cl. 5.4.1.8.2 & 5.4.1.8.3, IS/IEC 62368-1	Permanent
115	Audio / Video, Information and Communication Technology Equipment	Simulated abnormal operating conditions / Simulated single fault conditions	Qualitative	Annex B.3, IS/IEC 62368- 1	Permanent
116	Audio / Video, Information and Communication Technology Equipment	Static stability	Qualitative	Cl. 8.6.2, IS/IEC 62368-1	Permanent
117	Audio / Video, Information and Communication	Steady force	Qualitative	Annex T.2, T.3, T.4 & T.5, IS/IEC 62368-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Technology Equipment				
118	Audio / Video, Information and Communication Technology Equipment	Stress relief	0.1°C to 600 °C	Annex T.8, IS/IEC 62368- 1	Permanent
119	Digital Television Receiver for Satellite Broadcast Transmission	Decompression and decoding of SDTV video	Qualitative	Clause 4.1, Table - 1, i) b) of IS 18112+A1	Permanent
120	Digital Television Receiver for Satellite Broadcast Transmission	Decompression and decoding of HDTV video	Qualitative	Clause 4.1, Table - 1, i) c) of IS 18112+A1	Permanent
121	Digital Television Receiver for Satellite Broadcast Transmission	Decompression and decoding of HDTV video	Qualitative	Clause 4.1, Table - 1, i) d) of IS 18112+A1	Permanent
122	Digital Television Receiver for Satellite Broadcast Transmission	Active Format descriptors	Qualitative	Clause 4.1, Table - 1, i) e) of IS 18112+A1	Permanent
123	Digital Television Receiver for Satellite Broadcast Transmission	Captioning and Subtitling	Qualitative	Clause 4.1, Table - 1, i) f) of IS 18112+A1	Permanent
124	Digital Television Receiver for Satellite Broadcast Transmission	Teletext	Qualitative	Clause 4.1, Table - 1, i) g) of IS 18112+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
125	Digital Television Receiver for Satellite Broadcast Transmission	Multi-language support	Qualitative	Clause 4.1, Table - 1, i) h) of IS 18112+A1	Permanent
126	Digital Television Receiver for Satellite Broadcast Transmission	DTV receiver mixed Audio Description	Qualitative	Clause 4.1, Table - 1, i) j) of IS 18112+A1	Permanent
127	Digital Television Receiver for Satellite Broadcast Transmission	Broadcast mixed audio description	Qualitative	Clause 4.1, Table - 1, i) k) of IS 18112+A1	Permanent
128	Digital Television Receiver for Satellite Broadcast Transmission	Service demultiplexing	Qualitative	Clause 4.1, Table - 1, i) m) of IS 18112+A1	Permanent
129	Digital Television Receiver for Satellite Broadcast Transmission	Data services	Qualitative	Clause 4.1, Table - 1, i) n) of IS 18112+A1	Permanent
130	Digital Television Receiver for Satellite Broadcast Transmission	OSD	Qualitative	Clause 4.1, Table - 1, i) p) of IS 18112+A1	Permanent
131	Digital Television Receiver for Satellite Broadcast Transmission	DTV character set	Qualitative	Clause 4.1, Table - 1, i) q) of IS 18112+A1	Permanent
132	Digital Television Receiver for Satellite Broadcast Transmission	Electronic Service Guide (ESG) 'Now/Next'	Qualitative	Clause 4.1, Table - 1, i) r) of IS 18112+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
133	Digital Television Receiver for Satellite Broadcast Transmission	Time	Qualitative	Clause 4.1, Table - 1, i) s) of IS 18112+A1	Permanent
134	Digital Television Receiver for Satellite Broadcast Transmission	Digital TV output	Qualitative	Clause 4.1, Table - 1, i) t) of IS 18112+A1	Permanent
135	Digital Television Receiver for Satellite Broadcast Transmission	Frequency	40Hz to 65Hz/1Hz	Clause 4.1, Table - 2, i) b) of IS 18112+A1	Permanent
136	Digital Television Receiver for Satellite Broadcast Transmission	Input voltage range	50 Vac to 400 Vac /0.1Vac	Clause 4.1, Table - 2, i) a) of IS 18112+A1	Permanent
137	Digital Television Receiver for Satellite Broadcast Transmission	Demodulation and FEC decoding	Qualitative	Clause 4.1, Table - 1, ii) a) of IS 18112+A1	Permanent
138	Digital Television Receiver for Satellite Broadcast Transmission	DTV Receiver Installation	Qualitative	Clause 4.1, Table - 1, ii) b) of IS 18112+A1	Permanent
139	Digital Television Receiver for Satellite Broadcast Transmission	RF input impedance	1 ohm to 75 Ohm	Clause 4.1, Table - 2, iii) c) of IS 18112+A1	Permanent
140	Digital Television Receiver for Satellite Broadcast Transmission	Services available	Qualitative	Clause 4.1, Table - 1, ii) d) of IS 18112+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
141	Digital Television Receiver for Satellite Broadcast Transmission	Selection via Service List	Qualitative	Clause 4.1, Table - 1, ii) e) of IS 18112+A1	Permanent
142	Digital Television Receiver for Satellite Broadcast Transmission	Selection via Numeric Entry	Qualitative	Clause 4.1, Table - 1, ii) f) of IS 18112+A1	Permanent
143	Digital Television Receiver for Satellite Broadcast Transmission	Favourite Channel list	Qualitative	Clause 4.1, Table - 1, ii) g) of IS 18112+A1	Permanent
144	Digital Television Receiver for Satellite Broadcast Transmission	Hidden Services	Qualitative	Clause 4.1, Table - 1, ii) h) of IS 18112+A1	Permanent
145	Digital Television Receiver for Satellite Broadcast Transmission	Input Frequency Range	Qualitative	Clause 4.1, Table - 2, iii) b) of IS 18112+A1	Permanent
146	Digital Television Receiver for Satellite Broadcast Transmission	Logical Channel Number for Satellite services		Clause 4.1, Table - 1, ii) j) of IS 18112+A1	Permanent
147	Digital Television Receiver for Satellite Broadcast Transmission	RF input signal	-65dBm to 25 dBm	Clause 4.1, Table - 1, ii) k) of IS 18112+A1	Permanent
148	Digital Television Receiver for Satellite Broadcast Transmission	LNB supply current	1mA to 10A	Clause 4.1, Table - 1, ii) m) of IS 18112+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
149	Digital Television Receiver for Satellite Broadcast Transmission	LNB supply voltage	1V dc to 60Vdc	Clause 4.1, Table - 1, ii) n) of IS 18112+A1	Permanent
150	Digital Television Receiver for Satellite Broadcast Transmission	LNB Control	Qualitative	Clause 4.1, Table - 1, ii) p) of IS 18112+A1	Permanent
151	Digital Television Receiver for Satellite Broadcast Transmission	Modulation/Demodulation parameters for DVB-S & DVB-S2 standard	Qualitative	Clause 4.1, Table - 1, ii) q) of IS 18112+A1	Permanent
152	Digital Television Receiver for Satellite Broadcast Transmission	Input level per carrier	Qualitative	Clause 4.4, Table - 2, iii) a) of IS 18112+A1	Permanent
153	Digital Television Receiver for Satellite Broadcast Transmission	RF input impedance	0.1 Ohm to 75 Ohm	Clause 4.4, Table - 2, iv) c) of IS 18112+A1	Permanent
154	Digital Television Receiver for Satellite Broadcast Transmission	Input frequency range	950 MHz to 2150MHz	Clause 4.4, Table - 2, iv) b) of IS 18112+A1	Permanent
155	Digital Television Receiver for Satellite Broadcast Transmission	Input level per carrier	Qualitative	Clause 4.4, Table - 2, iv) a) of IS 18112+A1	Permanent
156	Digital Television Receiver for Satellite Broadcast Transmission	Symbol rate	Qualitative	Clause 4.4, Table - 2, v) of IS 18112+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
157	Digital Television Receiver for Satellite Broadcast Transmission	RF Input Return loss	0.1dB to 20dBm	Clause 4.4, Table - 2, vi) of IS 18112+A1	Permanent
158	Digital Television Receiver for Satellite Broadcast Transmission	DisEqC	Qualitative	Clause 4.4, Table - 2, Vii) of IS 18112+A1	Permanent
159	Digital Television Receiver for Satellite Broadcast Transmission	Operating ambient Temperature Range	Qualitative (-10 Deg C to 100 Deg C)	Clause 4.4, Table - 2, Viii) of IS 18112+A1	Permanent
160	Digital Television Receiver for Satellite Broadcast Transmission	Operating humidity range	Qualitative (Up to 96 % Rh)	Clause 4.4, Table - 2, IX) of IS 18112+A1	Permanent
161	Digital Television Receiver for Satellite Broadcast Transmission	Interfaces, Connectors	Qualitative	Clause 4.1, Table - 1, iii) a) of IS 18112+A1	Permanent
162	Digital Television Receiver for Satellite Broadcast Transmission	Automatic software upgrade mechanism	Qualitative	Clause 4.1, Table - 1, iv) of IS 18112+A1	Permanent
163	Digital Television Receiver for Satellite Broadcast Transmission	Remote Control	Qualitative	Clause 4.1, Table - 1, v) of IS 18112+A1	Permanent
164	Digital Television Receiver for Satellite Broadcast Transmission	Easy to use and simple documentation	Qualitative	Clause 4.1, Table - 1, v) b) of IS 18112+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
165	Digital Television Receiver for Satellite Broadcast Transmission	Support package	Qualitative	Clause 3.1, Table-1, v) c) of IS 18112+A1	Permanent
166	Desktop, Laptop, Computer Notebook, Computer, GPU, Computer Display, Discrete graphic processing unit, integrated Graphics, External power supply, internal	Power measurement-off Mode-sleep mode-idle state, active state, typical energy consumption	Qualitative	IEC 62301 BEE Schedule 14	Permanent
167	Desktop, Laptop, Computer Notebook, Computer, GPU, Computer Display, Discrete graphic processing unit, integrated Graphics, External power supply, internal	Standby mode power consumption	Qualitative	IEC 62301 BEE Schedule 14	Permanent
168	Desktop, Laptop, Computer/Notebook Computer external power adaptor	Standby mode power consumption	Qualitative	IEC 62301 BEE Schedule 14	Permanent
169	Desktop, Laptop, Computer/Notebook	Standby mode power consumption	Qualitative	IEC 62301 BEE Schedule 14	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Computer external power adaptor				
170	Office Equipment (printer, scanners, copies, Fax machine and Multifunction Devices)	Power measurement in on mode, off mode, sleep mode, typical energy consumption	Qualitative	CI3.8,3.5 IEC62301 BEE Schedule 14	Permanent
171	Office Equipment (printer, scanners, copies, Fax machine and Multifunction Devices)	Standby Mode power consumption	Qualitative	CI3.6 IEC 62301 BEE Schedule 14	Permanent
172	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	Luminance area calculation	Qualitative	cl.6.5, IEC 62087-1, cl.6.5 IEC 62087-3, SCHEDULE 26 & SCHEDULE 11	Permanent
173	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	Luminance, AEC calculation	Qualitative	CL.5 of BEE SCHEDULE 11 & CL.4 of BEE SCHEDULE 26, CL.5.1.7, IEC 62087-3	Permanent
174	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	LUMINANCE	Qualitative	CL.5 of BEE SCHEDULE 11 & CL.4 of BEE SCHEDULE 26,	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
				CL.6.5, IEC 62087-3	
175	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	Measurement of power consumption in, partial on mode	Qualitative	CL.5 of BEE SCHEDULE 11 & CL.4 of BEE SCHEDULE 26, CL.6.6, IEC 62087-3	Permanent
176	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	Measurement of power consumption in off mode	Qualitative	CL.5 of BEE SCHEDULE 11 & CL.4 of BEE SCHEDULE 26, CL.6.7, IEC 62087-3	Permanent
177	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	On mode power consumption	Qualitative	CL. 6.4, IEC 62087-3, BEE SCHEDULE 11, BEE SCHEDULE 26	Permanent
178	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	On mode power consumption	Qualitative	CL.5 of BEE SCHEDULE 11 & CL.4 of BEE SCHEDULE 26, CL.6.4, IEC 62087-3	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
179	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	Standby mode power consumption, standby passive mode	Qualitative	CL.5 of BEE SCHEDULE 11 & CL.4 of BEE SCHEDULE 26, CL.5.3, IEC 62301	Permanent
180	LED Display, LED TV, ULTRA HIGH-DEFINITION TV	Standby mode power consumption, standby active low mode	Qualitative	CL.5 of BEE SCHEDULE 11& CL.4 of BEE SCHEDULE 26, CL.5.3, IEC 62301	Permanent
181	AC to DC, DC to DC EXTERNAL POWER ADAPTOR	Energy efficiency	Qualitative	IEC 62301	Permanent
182	Clothes washing machines for household use – Method for measuring the performance	Measurements to determine rinsing performance	Qualitative	IEC 60456 (CI.No.8.5, CI.No.9.4) & Section 4.2.2 of BEE Schedule 12	Permanent
183	Clothes washing machines for household use – Method for measuring the performance	Measurements to determine washing performance	Qualitative	IEC 60456 (CI. No. 8.3, CI.No.9.2) & Section 4.2.1 of BEE Schedule 12	Permanent
184	Clothes washing machines for household use – Method for	Measurements to determine washing performance	Qualitative	IEC 60456 (CI. No.8.3, CI.No.9.2) &	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	measuring the performance			Section 4.2.1 of BEE Schedule 12	
185	Clothes washing machines for household use – Method for measuring the performance	Measurements to determine water and energy consumption and programme time	Qualitative	IEC 60456 (Cl.No.8.6, Cl. No. 9.5) & Section 4.2.3 of BEE Schedule 12	Permanent
186	Clothes washing machines for household use – Method for measuring the performance	Measurements to determine water and energy consumption and programme time	Qualitative	IEC 60456 (Cl.No.8.6, Cl. No. 9.5) &Section 4.2.3 of BEE Schedule 12	Permanent
187	Clothes washing machines for household use – Method for measuring the performance	Measurements to determine water and energy consumption and programme time	Qualitative	IEC 60456 (Cl.No.8.6, Cl. No. 9.5) & Section 4.2.3 of BEE Schedule 12	Permanent
188	Clothes washing machines for household use – Method for measuring the performance	Measurements to determine water extraction performance	Qualitative	IEC 60456 (Cl. No.8.4, Cl. No.9.3) & Section 4.2.4 of BEE Schedule 12	Permanent
189	Clothes washing machines for household use – Method for	Measurements to determine water extraction performance	Qualitative	IEC 60456 (Cl. No.8.4, Cl. No.9.3) & Section 4.2.4 of BEE Schedule 12	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	measuring the performance				
Discipline: Electrical Group: Cells and Batteries					
190	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	General safety Considerations	Qualitative	CI.5.0, 5.1, IS 16046-1 / IEC 62133-1	Permanent
191	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Insulation & wiring	Qualitative: 0.1 MΩ to 999 MΩ	CI.5.2, IS 16046-1 / IEC 62133-1	Permanent
192	Secondary cells and batteries containing alkaline or other non-	Venting	Qualitative	CI.5.3, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)				
193	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Temperature, voltage and current measurement	Qualitative	Cl.5.4, IS 16046-1 / IEC 62133-1	Permanent
194	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable	Specific requirements and tests	Qualitative	Cl.7.0, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	applications (Nickel Systems)				
195	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Charging procedure for testing purposes	Qualitative: 3V to 120V, 0.6 to 480A	CI.7.1, IS 16046-1 / IEC 62133-1	Permanent
196	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Charging procedure for testing purposes	Qualitative Amb to 250°C, -40°C to 80 °C	CI.7.1, IS 16046-1 / IEC 62133-1	Permanent
197	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for	Continuous Low-Rate Charge (Cells)	Qualitative: 1.5V to 80V, 0.03A to 48A	CI.7.2.1, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)				
198	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Vibration	Qualitative: 2Hz to 3000Hz	Cl.7.2.2, IS 16046-1 / IEC 62133-1	Permanent
199	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Case Stress at high Ambient Temperature (Batteries)	Qualitative: 0.1°C to 250°C, 0.01Sec to 3600 Sec	Cl.7.2.3, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
200	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Temperature cycling	Qualitative: -40°C to 80 °C	Cl.7.2.4, IS 16046-1 / IEC 62133-1	Permanent
201	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Reasonably foreseeable misuse	Qualitative	Cl.7.3, IS 16046-1 / IEC 62133-1	Permanent
202	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	Incorrect Installation (Cell)	Qualitative: 0.1V to 65 V	Cl.7.3.1, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	them for use in portable applications (Nickel Systems)				
203	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	External short circuit	0.1°C to 200°C	CI.7.3.2, IS 16046-1 / IEC 62133-1	Permanent
204	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	External short circuit	Qualitative: 80mΩ, 0.1V to 100V	CI.7.3.2, IS 16046-1 / IEC 62133-1	Permanent
205	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	Free fall	Qualitative: 1 mm to 1000 mm	CI.7.3.3, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)				
206	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Mechanical shock (Crash hazard)	Qualitative	Cl.7.3.4, IS 16046-1 / IEC 62133-1	Permanent
207	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Thermal abuse (Cell)	Qualitative: 0 to 150 °C	Cl.7.3.5, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
208	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Crushing of cells	Qualitative: 0.01 to 20 k N, 0.01 to 100 V	CI.7.3.6, IS 16046-1 / IEC 62133-1	Permanent
209	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Low pressure (Cell)	Qualitative: 100 kPa to 7 kPa, 20°C to 60 °C	CI.7.3.7, IS 16046-1 / IEC 62133-1	Permanent
210	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	Overcharge	Amb to 250°C	CI.7.3.8, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	them for use in portable applications (Nickel Systems)				
211	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Forced discharge (Cell)	Qualitative :1 V to 6V, 0.375A to 1200 A	CI.7.3.9, IS 16046-1 / IEC 62133-1	Permanent
212	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Information for safety	Qualitative	CI.8.0, 8.1, IS 16046-1 / IEC 62133-1	Permanent
213	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	PROVIDING INFORMATION ABOUT	Qualitative	CI.8.2, IS 16046-1 / IEC 62133-	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	INGESTION HAZARDS			
214	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Marking	Qualitative	CI.9.0, IS 16046-1 / IEC 62133-1	Permanent
215	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Cell marking	Qualitative	CI.9.1, IS 16046-1 / IEC 62133-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
216	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Battery marking	Qualitative	CI.9.2, IS 16046-1 / IEC 62133-1	Permanent
217	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Nickel Systems)	Packaging	Qualitative	CI.10.0, IS 16046-1 / IEC 62133-1	Permanent
218	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	General safety Considerations	Qualitative	CI.5.0, 5.1, IS 16046-2 / IEC 62133-2	Permanent



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	them for use in portable applications (Lithium Systems)				
219	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Insulation & wiring	Qualitative :0.1 MΩ to 999 MΩ	Cl.5.2, IS 16046-2 / IEC 62133-2	Permanent
220	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Venting	Qualitative	Cl.5.3, IS 16046-2 / IEC 62133-2	Permanent
221	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	Temperature, voltage and current measurement	Qualitative	Cl.5.4, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)				
222	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Terminal contacts	Qualitative	CI.5.5, IS 16046-2 / IEC 62133-2	Permanent
223	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Assembly of cells into batteries	Qualitative	CI.5.6, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
224	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Quality plan	Qualitative	CI.5.7, IS 16046-2 / IEC 62133-2	Permanent
225	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Battery safety Components	Qualitative	CI.5.8, IS 16046-2 / IEC 62133-2	Permanent
226	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	Type test and sample size	Qualitative	CI.6.0, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	them for use in portable applications (Lithium Systems)				
227	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Specific requirement and tests	Qualitative	Cl.7.0, IS 16046-2 / IEC 62133-2	Permanent
228	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Charging procedures for test purposes	Qualitative :3V to 120V, 0.6A to 480A	Cl.7.1, IS 16046-2 / IEC 62133-2	Permanent
229	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	Charging procedures for test purposes	Qualitative :Amb to 250 °C, -40°C to 150°C, 3V	Cl.7.1, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)		to 120V, 0.6A to 480A		
230	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Continuous Low-Rate Charge (Cells)	Qualitative :1.5V to 80V, 0.03 A to 48A	Cl.7.2.1, IS 16046-2 / IEC 62133-2	Permanent
231	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Continuous Low-Rate Charge (Cells)	Qualitative :Amb to 250 °C, -40 to 80°C	Cl.7.2.1, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
232	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Case Stress at high Ambient Temperature (Battery)	Qualitative :Amb to 250 °C, 0.01 Sec to 3600 Sec	Cl.7.2.2, IS 16046-2 / IEC 62133-2	Permanent
233	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	External short circuit (Cell)	0.1°C to 200°C	Cl.7.3.1, IS 16046-2 / IEC 62133-2	Permanent
234	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	External short circuit (Cell)	Qualitative :80mΩ, 0.1V to 100V	Cl.7.3.1, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	them for use in portable applications (Lithium Systems)				
235	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	External short circuit (Battery)	0.1°C to 200°C	Cl.7.3.2, IS 16046-2 / IEC 62133-2	Permanent
236	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	External short circuit (Battery)	Qualitative :80mΩ, 0.1 V to 100V	Cl.7.3.2, IS 16046-2 / IEC 62133-2	Permanent
237	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	Free fall	Qualitative :1 mm to 1000 mm	Cl.7.3.3, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)				
238	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Thermal abuse (Cells)	Qualitative :0°C to 150 °C, 0.01 Sec to 3600 Sec	Cl.7.3.4, IS 16046-2 / IEC 62133-2	Permanent
239	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Crush (Cells)	Qualitative :0.01 to 20 k N, 0.1V to 100 V	Cl.7.3.5, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
240	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Over-charging of Battery	Qualitative :3 to 120V, 0.5 to 480A,	Cl.7.3.6, IS 16046-2 / IEC 62133-2	Permanent
241	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Over-charging of Battery	Amb to 250°C	Cl.7.3.6, IS 16046-2 / IEC 62133-2	Permanent
242	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	Forced discharge (Cells)	Qualitative :1V to 6V, 0.375 to 1200 A	Cl.7.3.7, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	them for use in portable applications (Lithium Systems)				
243	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Mechanical tests (Batteries)	Qualitative	Cl.7.3.8, IS 16046-2 / IEC 62133-2	Permanent
244	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Vibration	Qualitative :2 to 3000Hz	Cl.7.3.8.1, IS 16046-2 / IEC 62133-2	Permanent
245	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	Mechanical Shock	Qualitative : up to 200 'g'	Cl.7.3.8.2, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)				
246	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Information for safety	Qualitative	CI.8.0, 8.1, IS 16046-2 / IEC 62133-2	Permanent
247	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Small cell and battery safety information	Qualitative	CI.8.2, IS 16046-2 / IEC 62133-2	Permanent



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248	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Marking	Qualitative	CI.9.0, IS 16046-2 / IEC 62133-2	Permanent
249	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Cell marking	Qualitative	CI.9.1, IS 16046-2 / IEC 62133-2	Permanent
250	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from	Battery marking	Qualitative	CI.9.2, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	them for use in portable applications (Lithium Systems)				
251	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Caution for ingestion of small cells and batteries	Qualitative	Cl.9.3, IS 16046-2 / IEC 62133-2	Permanent
252	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Other information	Qualitative	Cl.9.4, IS 16046-2 / IEC 62133-2	Permanent
253	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety	Packaging and transport	Qualitative	Cl.9.5, IS 16046-2 / IEC 62133-2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)				
254	Secondary cells and batteries containing alkaline or other non-acid electrolytes-safety requirements for portable sealed secondary cells and for batteries made from them for use in portable applications (Lithium Systems)	Packaging	Qualitative	CI.10.0, IS 16046-2 / IEC 62133-2	Permanent
255	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Photovoltaic Energy System	Qualitative	CI. 4.0, 4.1, IS 16270	Permanent
256	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Secondary Cells & Battery	Qualitative	CI. 4.2, IS 16270	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
257	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	General Operating Conditions	Qualitative	Cl.4.3, IS 16270	Permanent
258	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Mechanical Endurance	Qualitative	Cl. 5, 5.1, IS 16270	Permanent
259	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Charge Efficiency	Qualitative	Cl. 5.2, IS 16270	Permanent
260	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Deep Discharge Protection	Qualitative	Cl. 5.3, IS 16270	Permanent
261	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Marking	Qualitative	Cl. 5.4, IS 16270	Permanent
262	Secondary cells and batteries for solar	Safety	Qualitative	Cl. 5.5, IS 16270	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	photovoltaic application - General requirements and methods of test				
263	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Documentation	Qualitative	Cl. 5.6, IS 16270	Permanent
264	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Functional Characteristics	Qualitative	Cl. 6, IS 16270	Permanent
265	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	General Test Condition	Qualitative	Cl. 7, IS 16270	Permanent
266	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Capacity Test	Qualitative :3 to 120V, 0.6 A to 480A	Cl. 8.1, IS 16270	Permanent
267	Secondary cells and batteries for solar photovoltaic application	Endurance test	Qualitative	Cl. 8.2, IS 16270	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	- General requirements and methods of test		:3V to 120V, 0.6 A to 480A, 0.1°C to 150 °C		
268	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Charge Retention Test	Qualitative :3 to 120V, 0.6to 480A	Cl. 8.3., IS 16270	Permanent
269	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Cycle Endurance in Photovoltaic Application	Qualitative :3V to 120V, 0.6A to 480A, Amb to 250 °C	Cl. 8.4., IS 16270	Permanent
270	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Sulphation Test	Qualitative :3V to 120 V, 0.6A to 480A	Cl. 8.5., IS 16270	Permanent
271	Secondary cells and batteries for solar photovoltaic application - General requirements and methods of test	Water loss test	Qualitative :3V to 120V, 0.6A to 480A	Cl. 8.6., IS 16270	Permanent
272	Secondary cells and batteries for solar photovoltaic application	Type test (marking and dimension)	Qualitative	Cl.9., IS 16270	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	- General requirements and methods of test				
273	Lithium metal and lithium-ion cells & Batteries	Altitude Simulation	Qualitative :20°C to 60°C, 100 kPa to 7 kPa, 0.01 sec to 3600 sec	Cl.38.3.4.1 of UN 38.3 (7th Revision)	Permanent
274	Lithium metal and lithium-ion cells & Batteries	Vibration	Qualitative : 2 to 3000Hz	Cl.38.3.4.3 of UN 38.3 (7th Revision)	Permanent
275	Lithium metal and lithium-ion cells & Batteries	Shock Test	Qualitative : up to 200 'g'	Cl.38.3.4.4 of UN 38.3 (7th Revision)	Permanent
276	Lithium metal and lithium-ion cells & Batteries	External Short Circuit	0.1°C to 200°C	Cl.38.3.4.5 of UN 38.3 (7th Revision)	Permanent
277	Lithium metal and lithium-ion cells & Batteries	Impact & Crush Test	Qualitative : 0.01kN to 20 k N, 0.1 to 100 V	Cl.38.3.4.6 of UN 38.3 (7th Revision)	Permanent
278	Lithium metal and lithium-ion cells & Batteries	Over Charging	Qualitative : 3V to 120 V, 0.6A to 480 A	Cl.38.3.4.7 of UN 38.3 (7th Revision)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
279	Lithium metal and lithium-ion cells & Batteries	Forced-Discharge Test	Qualitative : 1V to 6V, 0.375A to 1200 A, -30°C to 300°C	Cl.38.3.4.8 of UN 38.3 (7th Revision)	Permanent

Discipline: Electrical **Group:** Domestic Electrical Appliances

280	Safety of Household and Similar Electrical Appliance	Classification	Qualitative	Cl. 6 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
281	Safety of Household and Similar Electrical Appliance	Marking and Instruction	Qualitative : 0.1 to 3600 Sec	Cl. 7 of IS 302-1, A1 to A4/IS 302-1/IEC 60335-1	Permanent
282	Safety of Household and Similar Electrical Appliance	Protection against access to live Parts	Qualitative : 0.1 to 100V, 0.05 to 196.10	Cl. 8 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
283	Safety of Household and Similar Electrical Appliance	Power Input and Current	0.01 to 30A	Cl. 10 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
284	Safety of Household and Similar Electrical Appliance	Heating	0.1 to 300 °C	Cl. 11 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
285	Safety of Household and Similar Electrical Appliance	Heating	Qualitative : 0.01to 1999μΩ	Cl. 11 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
286	Safety of Household and Similar Electrical Appliance	Charging of Metal-ion Batteries	Qualitative : 3 to 480V, 0.6 to 480A	Cl. 12 of IS 302-1 /IEC 60335-1	Permanent
287	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength at Operating Temperature	0.1 to 20mA	Cl. 13 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
288	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength at Operating Temperature	Qualitative : 0.01 to 10kV, 1 to 300mA	Cl. 13 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
289	Safety of Household and Similar Electrical Appliance	Transient Over Voltage	Qualitative : 1.2/50 μ S, 0.2 to 10kV	Cl. 14 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
290	Safety of Household and Similar Electrical Appliance	Moisture Resistance	Qualitative : Amb to 95%, Amb to 60°C	Cl. 15 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
291	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength	Qualitative : 0.01 to 10kV	Cl. 16 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
292	Safety of Household and Similar Electrical Appliance	Leakage Current and Electric Strength	0.1 to 20mA	Cl. 16 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
293	Safety of Household and Similar Electrical Appliance	Overload Protection of Transformers and associated circuit	Qualitative : 0.01 to 1999 $\mu\Omega$	Cl. 17 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
294	Safety of Household and Similar Electrical Appliance	Overload Protection of Transformers and associated circuit	0.1 to 300 °C	Cl. 17 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
295	Safety of Household and Similar Electrical Appliance	Endurance	Qualitative	Cl. 18 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
296	Safety of Household and Similar Electrical Appliance	Abnormal Operation	0.1 to 300 °C	Cl. 19 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
297	Safety of Household and Similar Electrical Appliance	Stability and Mechanical Hazards	Qualitative : 1 to 360Deg, 0.2 to 980N	Cl. 20 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
298	Safety of Household and Similar Electrical Appliance	Mechanical Strength	Qualitative : 0.1 to 0.6J, 0.1 to 1.5Nm	Cl. 21 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
299	Safety of Household and Similar Electrical Appliance	Construction	Qualitative	Cl. 22 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
300	Safety of Household and Similar Electrical Appliance	Internal Wiring	Qualitative : 0.1 to 10kV	Cl. 23 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
301	Safety of Household and Similar Electrical Appliance	Components	Qualitative	Cl. 24 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
302	Safety of Household and Similar Electrical Appliance	Supply connection and external flexible cords	Qualitative	Cl. 25 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
303	Safety of Household and Similar Electrical Appliance	Supply connection and external flexible cords	Qualitative : 0.01 to 10kV	Cl. 25 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
304	Safety of Household and Similar Electrical Appliance	Terminal for external conductors	Qualitative	Cl. 26 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
305	Safety of Household and Similar Electrical Appliance	Provision for earthing	Qualitative : 0.1 to 20V, 0.1 to 50A	Cl. 27 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
306	Safety of Household and Similar Electrical Appliance	Screws and Connection	Qualitative : 0.1 to 5Nm	Cl. 28 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent



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307	Safety of Household and Similar Electrical Appliance	Clearances, creepage distance and solid insulation	0.01 to 200mm	Cl.29 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
308	Safety of Household and Similar Electrical Appliance	Clearances, creepage distance and solid insulation	Qualitative : 0.01 to 10kV	Cl. 29 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
309	Safety of Household and Similar Electrical Appliance	Resistance Heat and Fire	0.01 to 10mm	Cl. 30 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
310	Safety of Household and Similar Electrical Appliance	Resistance Heat and Fire	Qualitative : Amb. to 250°C, 1 to 300mm, 1 to 1000°C, 0.1 to 99.9 Sec	Cl. 30 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent
311	Safety of Household and Similar Electrical Appliance	Resistance to rusting	Qualitative : Amb. to 95%, Amb. to 60°C	Cl. 31 of IS 302-1, A1 to A4, IS 302-1 /IEC 60335-1	Permanent



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