

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

HT Product Services Private Limited

(Name change from House of Testing w.e.f. 26 December 2023)

B-78 (Basement, 1st, 4th, 5th floor), Sector-5, Gautam Budh Nagar,
Noida-201301, Uttar Pradesh, India,

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2023/0023

Valid from: 12 September 2023

Valid until: 11 September 2025

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Scope Extended w.e.f.: 23 March 2024

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QAI/CIA/TL/2023/0023

Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Audio, Video and Similar Electronic Apparatus –Safety Requirements	General requirements (General)	Cl. 3, Cl. 3.1, IS 616: 2017/IEC 60065:2014
2.		Designation of classes	Cl. 3, Cl. 3.1, IS 616: 2017/IEC 60065:2014
3.		Constructions and components not specifically covered	Cl. 3, Cl. 3.1, IS 616: 2017/IEC 60065:2014
4.		Components and subassemblies that comply with IEC 62368-1	Cl. 3, Cl. 3.1, IS 616: 2017/IEC 60065:2014
5.		General test conditions (Conduct of tests)	Cl. 4, Cl. 4.1, Cl. 4.1.1, Cl. 4.1.2, Cl. 4.1.3, Cl. 4.1.4, Cl. 4.1.5, Cl. 4.1.6, Cl. 4.1.7, IS 616: 2017/IEC 60065:2014
6.		Normal operating conditions	Cl. 4, Cl. 4.2, Cl. 4.2.1, Cl. 4.2.2, Cl. 4.2.3, Cl. 4.2.4, Cl. 4.2.5, Cl. 4.2.6, Cl. 4.2.7, Cl. 4.2.8, Cl. 4.2.9, Cl. 4.2.10, Cl. 4.2.10.1, Cl. 4.2.10.2, Cl. 4.2.11, Cl. 4.2.12, Cl. 4.2.13, IS 616: 2017/IEC 60065:2014
7.		Fault conditions	Cl. 4, Cl. 4.3.1, Cl. 4.3.2, Cl. 4.3.3, Cl. 4.3.4, Cl. 4.3.5, Cl. 4.3.6, Cl. 4.3.7, Cl. 4.3.8, Cl. 4.3.9, Cl. 4.3.10, Cl. 4.3.11, Cl. 4.3.12, Cl. 4.3.13, Cl. 4.3.14, Cl. 4.3.15, Cl. 4.3.16, Cl. 4.3.17, IS 616: 2017/IEC 60065:2014
8.		Marking and instructions (General requirements)	Cl. 5, Cl. 5.1 IS 616: 2017/IEC 60065:2014

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
9.		Identification and supply ratings	Cl. 5, Cl. 5.2 IS 616: 2017/IEC 60065:2014
10.		Terminals	Cl. 5, Cl. 5.3 IS 616: 2017/IEC 60065:2014
11.		Caution marking	Cl. 5, Cl. 5.4 IS 616: 2017/IEC 60065:2014
12.		Instructions	Cl. 5, Cl. 5.5 IS 616: 2017/IEC 60065:2014
13.		Hazardous radiations	Cl. 6, Cl. 6.1, Cl. 6.2, Cl. 6.3 IS 616: 2017 /IEC 60065:2014
14.		Heating under normal operating conditions (General)	Cl. 7, Cl. 7.1, Cl. 7.1.1, Cl. 7.1.2, Cl. 7.1.3, Cl. 7.1.4, Cl. 7.1.5, Cl. 7.1.6 IS 616: 2017/IEC 60065:2014
15.		Heat resistance of insulating material	Cl. 7, Cl. 7.2 IS 616: 2017/IEC 60065:2014
16.		Constructional requirements with regard to the protection against electric shock	Cl. 8, Cl. 8.1, Cl. 8.2, Cl. 8.3, Cl. 8.4, Cl. 8.5, Cl. 8.6, Cl. 8.8, Cl. 8.9, Cl. 8.10, Cl. 8.11, Cl. 8.12, Cl. 8.13, Cl. 8.14, Cl. 8.15, Cl. 8.16, Cl. 8.17, Cl. 8.18, Cl. 8.19, Cl. 8.20, Cl. 8.21 IS 616: 2017/IEC 60065:2014
17.		Electric shock hazard under normal operating conditions (Testing on the outside)	Cl. 9, Cl. 9.1, Cl. 9.1.1.1 IS 616: 2017/IEC 60065:2014

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
18.		Determination of Hazardous Live parts	Cl. 9, Cl. 9.1.1.2 IS 616: 2017/IEC 60065:2014
19.		Determination of Accessible parts	Cl. 9, Cl. 9.1.1.3 IS 616: 2017/IEC 60065:2014
20.		Shafts of operating knobs, handles, levers and the like	Cl. 9, Cl. 9.1.2 IS 616: 2017/IEC 60065:2014
21.		Openings of the enclosure	Cl. 9, Cl. 9.1.3 IS 616: 2017/IEC 60065:2014
22.		Terminals	Cl. 9, Cl. 9.1.4 IS 616: 2017/IEC 60065:2014
23.		Pre-set controls	Cl. 9, Cl. 9.1.5 IS 616: 2017/IEC 60065:2014
24.		Withdrawal of Mains plug	Cl. 9, Cl. 9.1.6 IS 616: 2017/IEC 60065:2014
25.		Resistance to external forces	Cl. 9, Cl. 9.1.7 IS 616: 2017/IEC 60065:2014
26.		Removal of protective covers	Cl. 9, Cl. 9.2 IS 616: 2017/IEC 60065:2014
27.		Insulation requirements (frequencies)	Cl. 10, Cl. 10.1 IS 616: 2017/IEC 60065:2014
28.			
29.			
30.		Surge test	Cl. 10, Cl. 10.2 IS 616: 2017/IEC 60065:2014
31.		Humidity treatment	Cl. 10, Cl. 10.3 IS 616: 2017/IEC 60065:2014
32.			

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
33.			
34.		Insulation resistance and dielectric strength	Cl. 10, Cl. 10.4, Cl. 10.4.1, Cl. 10.4.2 IS 616: 2017/IEC 60065:2014
35.		Fault conditions (Electric shock hazard)	Cl. 11, Cl. 11.1 IS 616: 2017/IEC 60065:2014
36.		Heating	Cl. 11, Cl. 11.2, Cl.11.2.1, Cl. 11.2.2,
37.			Cl. 11.2.3, Cl. 11.2.4, Cl. 11.2.5,
38.			Cl. 11.2.6, Cl. 11.2.7, Cl. 11.2.8 IS 616: 2017/IEC 60065:2014
39.		Mechanical strength (Complete apparatus)	Cl. 12, Cl. 12.1, Cl.12.1.1, Cl. 12.1.2, Cl. 12.1.3, Cl. 12.1.4, Cl. 12.1.5, Cl. 12.1.6, IS 616: 2017/IEC 60065:2014
40.		Fixing of actuating elements	Cl. 12, Cl. 12.2 IS 616: 2017/IEC 60065:2014
41.		Remote Control devices held in hand	Cl. 12, Cl. 12.3 IS 616: 2017/IEC 60065:2014
42.		Drawers	Cl. 12, Cl. 12.4 IS 616: 2017/IEC 60065:2014
43.		Antenna coaxial sockets mounted on the apparatus	Cl. 12, Cl. 12.5 IS 616: 2017/IEC 60065:2014
44.		Telescoping or rod antennas	Cl. 12, Cl. 12.6, Cl.12.6.1, Cl. 12.6.1.2 IS 616: 2017/IEC 60065:2014



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
45.		Apparatus containing Coin/Button Cell Batteries	Cl. 12, Cl. 12.7, Cl.12.7.1, Cl. 12.7.2 IS 616: 2017/IEC 60065:2014
46.		Tests	Cl. 12, Cl. 12.7.3, Cl.12.7.3.1, Cl. 12.7.3.2, Cl. 12.7.3.3, Cl. 12.7.3.4, Cl. 12.7.3.5, Cl. 12.7.3.6 IS 616: 2017 /IEC 60065:2014
47.		Compliance	Cl. 12, Cl. 12.7.4, IS 616: 2017/IEC 60065:2014
48.		Clearances and Creepage Distances	Cl. 13, Cl. 13.1 - Cl. 13.7 IS 616: 2017/IEC 60065:2014
49.		Determination of Working Voltage	Cl. 13.2 IS 616: 2017/IEC 60065:2014
50.		Clearances	Cl. 13.1 - Cl. 13.7 IS 616: 2017/IEC 60065:2014
51.		Creepage Distances	Cl. 13.4, IS 616: 2017 /IEC 60065:2014
52.		Printed Boards	Cl. 13.5, Cl. 13.5.1, Cl. 13.5.2 IS 616: 2017/IEC 60065:2014
53.		Jointed insulation	Cl. 13.6 IS 616: 2017/IEC 60065:2014
54.		Enclosed and sealed parts	Cl. 13.7 IS 616: 2017/IEC 60065:2014
55.		Components (General)	Cl. 14, Cl. 14.1 IS 616: 2017/IEC 60065:2014
56.		Resistors	Cl. 14, Cl. 14.2

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			IS 616: 2017/IEC 60065:2014
57.		Capacitors and RC-units	Cl. 14, Cl. 14.3, Cl.14.3.1, Cl. 14.3.2, Cl. 14.3.3, Cl. 14.3.4, Cl. 14.3.5, Cl. 14.3.6 IS 616: 2017/IEC 60065:2014
58.		Inductors and windings	Cl. 14, Cl. 14.4, Cl. 14.4.1, Cl. 14.4.2, Cl. 14.4.3, Cl. 14.4.4, Cl. 14.4.5, Cl. 14.4.6 IS 616: 2017/IEC 60065:2014
59.		Separation between windings	Cl. 14, Cl. 14.4.5 IS 616: 2017/IEC 60065:2014
60.		High voltage components and assemblies	Cl. 14, Cl. 14.5, Cl. 14.5.1, Cl. 14.5.2, Cl. 14.5.3 IS 616: 2017/IEC 60065:2014
61.		Protective devices	Cl. 14, Cl. 14.6, Cl. 14.6.1, Cl. 14.6.2, Cl. 14.6.3, Cl. 14.6.4, Cl. 14.6.5, IS 616: 2017/IEC 60065:2014
62.		Switches	Cl. 14, Cl. 14.7, Cl. 14.7.1, Cl. 14.7.2, Cl. 14.7.3, Cl. 14.7.4, Cl. 14.7.5 IS 616: 2017/IEC 60065:2014
63.		Safety Interlocks	Cl. 14, Cl. 14.8, IS 616: 2017/IEC 60065:2014
64.		Voltage setting devices and the like	Cl. 14, Cl. 14.9, IS 616: 2017/IEC 60065:2014

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
65.		Motors	Cl. 14, Cl. 14.10, Cl. 14.10.1, Cl. 14.10.2, Cl. 14.10.3, Cl. 14.10.4 IS 616: 2017/IEC 60065:2014
66.		Batteries	Cl. 14, Cl. 14.11, Cl. 14.11.1, Cl. 14.11.2, Cl. 14.11.3, Cl. 14.11.4, Cl. 14.11.5 IS 616: 2017/IEC 60065:2014
67.		Optocouplers	Cl. 14, Cl. 14.12 IS 616: 2017/IEC 60065:2014
68.		Surge suppressionvaristors	Cl. 14, Cl. 14.13 IS 616: 2017/IEC 60065:2014
69.		Terminals (plugs andsockets)	Cl. 15, Cl. 15.1, Cl. 15.1.1, Cl. 15.1.2, Cl. 15.1.3 IS 616: 2017/IEC 60065:2014
70.		Provisions for protective earthing	Cl. 15, Cl. 15.2 IS 616: 2017/IEC 60065:2014
71.		Terminals for external flexible cords and for permanent connection to the Mains supply	Cl. 15, Cl. 15.3, Cl.15.3.1, Cl. 15.3.2, Cl. 15.3.3, Cl. 15.3.4, Cl. 15.3.5, Cl. 15.3.6, Cl. 15.3.7, Cl. 15.3.8, Cl. 15.3.9 IS 616: 2017/IEC 60065:2014
72.		Devices forming a part of the Mains plug	Cl. 15, Cl. 15.4, Cl. 15.4.1, Cl. 15.4.2, Cl. 15.4.3 IS 616: 2017/IEC 60065:2014
73.		External flexible cords	Cl. 16, Cl. 16.1, Cl. 16.2, Cl. 16.3, Cl.

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			16.4, Cl. 16.5, Cl. 16.6, Cl. 16.7 IS 616: 2017/IEC 60065:2014
74.		Electrical connections and mechanical fixings	Cl. 17, Cl. 17.1, Cl. 17.2, Cl. 17.3, Cl. 17.4, Cl. 17.5, Cl. 17.6, Cl. 17.7, Cl. 17.8, Cl. 17.9 IS 616: 2017/IEC 60065:2014
75.		Mechanical strength of picture tubes and protection against the effects of implosion	Cl. 18, Cl. 18.1, Cl. 18.2 IS 616: 2017/IEC 60065:2014
76.		Stability and mechanical hazards (Stability requirements)	Cl. 19, Cl. 19.1 IS 616: 2017/IEC 60065:2014
77.		Test at 10° to the horizontal	Cl. 19, Cl. 19.2 IS 616: 2017/IEC 60065:2014
78.		Vertical force test	Cl. 19, Cl. 19.3 IS 616: 2017/IEC 60065:2014
79.		Horizontal force test	Cl. 19, Cl. 19.4 IS 616: 2017/IEC 60065:2014
80.		Test of edges and corners	Cl. 19, Cl. 19.5 IS 616: 2017/IEC 60065:2014
81.		Mechanical strength of glass	Cl. 19, Cl. 19.6, Cl. 19.6.1, Cl. 19.6.2 IS 616: 2017/IEC 60065:2014
82.		Wall or ceiling mounting means	Cl. 19, Cl. 19.7, Cl. 19.7.1, Cl. 19.7.2 IS 616: 2017/IEC 60065:2014
83.		Compliance	Cl. 19, Cl. 19.7.3 IS 616: 2017/IEC 60065:2014

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
84.		Resistance to fire (Requirements)	Cl. 20, Cl. 20.1, IS 616: 2017/IEC 60065:2014
85.		Electrical components and mechanical parts	Cl. 20, Cl. 20.2, Cl.20.2.1, Cl. 20.2.2, Cl. 20.2.3, Cl. 20.2.4, Cl. 20.2.5
86.			IS 616: 2017/IEC 60065:2014
87.		Fire Enclosure	Cl. 20, Cl. 20.3, Cl. 20.3.1, Cl. 20.3.2, Cl. 20.3.3 IS 616: 2017/IEC 60065:2014
88.		Additional requirements for apparatus with protection against splashing water	Annex A, A.1, A.5, A.10 IS 616: 2017/IEC 60065:2014
89.		Apparatus to be connected to the Telecommunication Networks	Annex B IS 616: 2017 /IEC 60065:2014
90.		Band-pass filter for wide-band noise measurement	Annex C IS 616: 2017/IEC 60065:2014
91.		Measuring network for Touch Currents	Annex D IS 616: 2017/IEC 60065:2014
92.		Measurement of Clearances and Creepage Distances	Annex E IS 616: 2017/IEC 60065:2014
93.		Table of electrochemical potentials	Annex F IS 616: 2017/IEC 60065:2014
94.		Flammability test methods	Annex G, G.1, G.1.1, G.1.2, G.1.3, G.1.4, G.2, G.3

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			IS 616: 2017/IEC 60065:2014
95.		Insulated winding wires for use without interleaved insulation	Annex H, H.1, H.2, H.2.1, H.2.2, H.2.3, H.2.4, H.2.5, H.3, H.3.1, H.3.2, H.3.3 IS 616: 2017/IEC 60065:2014
96.		Alternative method for determining minimum clearances	Annex J, J.1, J.2, J.3, J.4, J.5, J.6, J.7 IS 616: 2017/IEC 60065:2014
97.		Impulse test generators	Annex K IS 616: 2017/IEC 60065:2014
98.		Additional requirements for electronic flash apparatus for photographic purposes	Annex L, L.1, L.2, L.4, L.5, L.7, L.9, L.10, L.11, L.12, L.14, L.20 IS 616: 2017/IEC 60065:2014
99.		Examples of requirements for quality control programmes for allowing reduced clearances	Annex M IS 616: 2017/IEC 60065:2014
100.		Routine tests	Annex N, N.1, N.2, N.2.1, N.2.2, N.2.3, N.2.4, N.2.5, N.2.6, N.2.7, N.3, N.3.1, N.3.2, N.3.3, N.3.4 IS 616: 2017/IEC 60065:2014



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Information Technology Equipment	Components	Cl 1.5, Cl. 1.5.1, Cl.1.5.2, Cl. 1.5.3, Cl. 1.5.4, Cl. 1.5.5, Cl. 1.5.6, Cl. 1.5.7, Cl. 1.5.8, Cl. 1.5.9 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
2.		Power interface	Cl 1.6, Cl 1.6.1, Cl 1.6.2, Cl. 1.6.3, Cl. 1.6.4 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
3.		Marking and instructions	Cl 1.7, Cl 1.7.1, Cl 1.7.2, Cl. 1.7.3, Cl. 1.7.4, Cl. 1.7.5, Cl. 1.7.6, Cl. 1.7.7, Cl. 1.7.8, Cl. 1.7.9, Cl. 1.7.10, Cl. 1.7.11, Cl. 1.7.12, Cl. 1.7.13, Cl. 1.7.14, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2:2013
4.		Protection from hazards	Cl. 2, Cl. 2.1, Cl. 2.1.1, Cl. 2.1.1.1, Cl. 2.1.1.2, Cl. 2.1.1.3, Cl. 2.1.1.4, Cl. 2.1.1.5, Cl. 2.1.1.6, Cl. 2.1.1.7, Cl. 2.1.1.8, Cl. 2.1.1.9, Cl. 2.1.2, Cl. 2.1.3, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 :2013
5.		SELV circuit	Cl. 2, Cl. 2.2, Cl. 2.2.1, Cl. 2.2.2, Cl. 2.2.3, Cl. 2.2.4, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 :2013

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
6.		TNV circuit	Cl.2, Cl. 2.3, Cl. 2.3.1, Cl. 2.3.2, Cl. 2.3.2.1, Cl. 2.3.2.2, Cl. 2.3.2.3, Cl. 2.3.2.4, Cl. 2.3.3, Cl. 2.3.4, Cl. 2.3.5, IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 +A1:2009 + A2: 2013
7.		Limited current circuit	Cl.2, Cl.2.4, Cl. 2.4.1, Cl. 2.4.2, Cl. 2.4.3, IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 +A1:2009 + A2: 2013
8.		Limited power source	Cl.2, Cl. 2.5 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
9.		Provision for earthing and bonding	Cl.2, Cl. 2.6, Cl. 2.6.1, Cl. 2.6.2, Cl. 2.6.3, Cl. 2.6.3.1, Cl. 2.6.3.2, Cl. 2.6.3.3, Cl. 2.6.3.4, Cl. 2.6.3.5, Cl. 2.6.4, Cl. 2.6.4.1, Cl. 2.6.4.2, Cl. 2.6.4.3, Cl. 2.6.5, Cl. 2.6.5.1, Cl. 2.6.5.2, Cl. 2.6.5.3, Cl. 2.6.5.4, Cl. 2.6.5.5, Cl. 2.6.5.6, Cl. 2.6.5.7, Cl. 2.6.5.8 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
10.		Overcurrent and earth fault protection in primary circuit	Cl 2, Cl. 2.7, Cl. 2.7.1, Cl. 2.7.2, Cl. 2.7.3, Cl. 2.7.4, Cl. 2.7.5, Cl. 2.7.6, IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 +

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			A1:2009 + A2: 2013
11.		Safety interlock	Cl 2, Cl. 2.8, Cl. 2.8.1, Cl. 2.8.2, Cl. 2.8.3, Cl. 2.8.4, Cl. 2.8.5, Cl. 2.8.6, Cl. 2.8.7, Cl. 2.8.7.1, Cl. 2.8.7.2, Cl. 2.8.7.3, Cl. 2.8.7.4, Cl. 2.8.8 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
12.		Electrical insulation	Cl 2, Cl. 2.9, Cl. 2.9.1, Cl. 2.9.2, Cl. 2.9.3, Cl. 2.9.4, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 :2013



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
13.		Clearances, creepage distances and distance through insulation	Cl.2, Cl. 2.10, Cl. 2.10.1, Cl. 2.10.1.1, Cl. 2.10.1.2, Cl. 2.10.1.3, Cl. 2.10.1.4, Cl. 2.10.1.5, Cl. 2.10.1.6, Cl. 2.10.1.7, Cl. 2.10.2, Cl. 2.10.2.1, Cl. 2.10.2.2, Cl. 2.10.2.3, Cl. 2.10.3, Cl. 2.10.3.1, Cl. 2.10.3.2, Cl. 2.10.3.3, Cl. 2.10.3.4, Cl. 2.10.3.5, Cl. 2.10.3.6, Cl. 2.10.3.7, Cl. 2.10.3.8, Cl. 2.10.3.9, Cl. 2.10.4, Cl. 2.10.4.1, Cl. 2.10.4.2, Cl. 2.10.4.3, Cl. 2.10.5, Cl. 2.10.5.1, Cl. 2.10.5.2, Cl. 2.10.5.3, Cl. 2.10.5.4, Cl. 2.10.5.5, Cl. 2.10.5.6, Cl. 2.10.5.7, Cl. 2.10.5.8, Cl. 2.10.5.9, Cl. 2.10.5.10, Cl. 2.10.5.11, Cl. 2.10.5.12, Cl. 2.10.5.13, Cl. 2.10.5.14, Cl. 2.10.6, Cl. 2.10.6.1, Cl. 2.10.6.2, Cl. 2.10.6.3, Cl. 2.10.6.4, Cl. 2.10.7, Cl. 2.10.8, Cl. 2.10.8.1, Cl. 2.10.8.2, Cl. 2.10.8.3, Cl. 2.10.8.4, Cl. 2.10.9, Cl. 2.10.10, Cl. 2.10.11, Cl. 2.10.12, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 :2013
14.		Wiring, connections and supply (General)	Cl 3, Cl. 3.1, Cl. 3.1.1, Cl. 3.1.2, Cl. 3.1.3, Cl. 3.1.4, Cl. 3.1.5, Cl. 3.1.6, Cl. 3.1.7, Cl. 3.1.8, Cl. 3.1.9, Cl. 3.1.10, IS 13252 (Part1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2:2013
15.		Connection to main supply	Cl 3, Cl. 3.2, Cl. 3.2.1, Cl. 3.2.1.1, Cl. 3.2.1.2, Cl. 3.2.2, Cl. 3.2.3, Cl. 3.2.4,

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			Cl. 3.2.5, Cl. 3.2.5.1, Cl. 3.2.5.2, Cl. 3.2.6, Cl. 3.2.7, Cl. 3.2.8, Cl. 3.2.9 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
16.		Wiring terminals for connection of external conductors	Cl 3, Cl. 3.3, Cl. 3.3.1, Cl. 3.3.2, Cl. 3.3.3, Cl. 3.3.4, Cl. 3.3.5, Cl. 3.3.6, Cl. 3.3.7, Cl. 3.3.8, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 :2013
17.		Disconnection from the main supply	Cl 3, Cl. 3.4, Cl. 3.4.1, Cl. 3.4.2, Cl. 3.4.3, Cl. 3.4.4, Cl. 3.4.5, Cl. 3.4.6, Cl. 3.4.7, Cl. 3.4.8, Cl. 3.4.9, Cl. 3.4.10, Cl. 3.4.11, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
18.		Interconnection of equipment	Cl 3, Cl. 3.5, Cl. 3.5.1, Cl. 3.5.2, Cl. 3.5.3, Cl. 3.5.4, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 :2013
19.		Physical requirements (stability)	Cl 4, Cl. 4.1 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
20.		Mechanical strength	Cl 4, Cl. 4.2, Cl. 4.2.1, Cl. 4.2.2, Cl. 4.2.3, Cl. 4.2.4, Cl. 4.2.5, Cl. 4.2.6, Cl. 4.2.7, Cl. 4.2.8, Cl. 4.2.9, Cl. 4.2.10 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
21.		Design and construction	Cl 4, Cl. 4.3.1, Cl. 4.3.2, Cl. 4.3.3, Cl. 4.3.4, Cl. 4.3.5, Cl. 4.3.6, Cl. 4.3.7, Cl. 4.3.8, Cl. 4.3.9, Cl. 4.3.10, Cl. 4.3.11, Cl. 4.3.12, Cl. 4.3.13, Cl. 4.3.13.1, Cl. 4.3.13.2, Cl. 4.3.13.3, Cl. 4.3.13.4, Cl. 4.3.13.5, Cl. 4.3.13.6, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
22.		Protection against hazardous moving parts	Cl 4, Cl. 4.4, Cl. 4.4.1, Cl. 4.4.2, Cl. 4.4.3, Cl. 4.4.4, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
23.		Thermal requirements	Cl 4, Cl. 4.5, Cl. 4.5.1, Cl. 4.5.2, Cl. 4.5.3, Cl. 4.5.4, Cl. 4.5.5, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
24.		Openings in enclosure	Cl 4, Cl. 4.6, Cl. 4.6.1, Cl. 4.6.2, Cl. 4.6.3, Cl. 4.6.4, Cl. 4.6.4.1, Cl. 4.6.4.2, Cl. 4.6.5, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
25.		Resistance to fire	Cl 4, Cl. 4.7, Cl. 4.7.1, Cl. 4.7.2, Cl. 4.7.2.1, Cl. 4.7.2.2, Cl. 4.7.3, Cl. 4.7.3.1, Cl. 4.7.3.2, Cl. 4.7.3.3, Cl. 4.7.3.4, Cl. 4.7.3.5, Cl. 4.7.3.6, IS 13252 (Part 1): 2010 + A1: 2013 +



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
26.		Electrical requirements and simulated abnormal conditions (Touch current and protective conductor current)	Cl 5, Cl. 5.1, Cl. 5.1.1, Cl. 5.1.2, Cl. 5.1.2.1, Cl. 5.1.2.2, Cl. 5.1.2.3, Cl. 5.1.3, Cl. 5.1.4, Cl. 5.1.5, Cl. 5.1.6, Cl. 5.1.7, Cl. 5.1.7.1, Cl. 5.1.7.2, Cl. 5.1.8, Cl. 5.1.8.1, Cl. 5.1.8.2, IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 +A1:2009 + A2: 2013
27.		Electric strength	Cl 5, Cl 5.2, Cl 5.2.1, Cl 5.2.2, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
28.		Abnormal operating and fault conditions	Cl 5, Cl 5.3, Cl 5.3.1, Cl 5.3.2, Cl 5.3.3, Cl 5.3.4, Cl 5.3.5, Cl 5.3.6, Cl 5.3.7, Cl 5.3.8, Cl 5.3.9, Cl 5.3.9.1, Cl 5.3.9.2 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
29.		Connection to telecommunication networks (protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment)	Cl 6, Cl 6.1, Cl 6.1.1, Cl 6.1.2, Cl 6.1.2.1, Cl 6.1.2, Cl 6.1.2.2, IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
30.		Protection of equipment users from over voltages on Telecommunication networks	CI 6, CI 6.2, CI 6.2.1, CI 6.2.2, CI 6.2.2.1, CI 6.2.2.2, CI 6.2.2.3 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
31.		Protection of telecommunication wiring system from overheating	CI 6, CI 6.3 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
32.		Connection to cable distribution systems (general)	CI 7, CI 7.1 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
33.		Protection of cable distribution system service persons, and users of otherequipment connected to the system, from hazardous voltages in the equipment	CI 7, CI 7.2 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
34.		Protection of equipment users from overvoltage onthe cable distribution system	CI 7, CI 7.3 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
35.		Insulation between primary circuits and cable distribution systems	CI 7, CI 7.4, CI 7.4.1, CI 7.4.2, CI 7.4.3 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
36.		Tests for resistance to heat and fore	Annex A, A.1, A.1.1, A.1.2, A.1.3, A.1.4, A.1.5, A.1.6, A.2, A.2.1, A.2.2, A.2.3, A.2.4, A.2.5, A.2.6, A.2.7, A.3, A.3.1, A.3.2, A.3.3 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
37.		Motor tests under abnormal conditions	Annex B, B.1, B.2, B.3, B.4, B.5, B.6, B.6.1, B.6.2, B.6.3, B.6.4, B.7, B.7.1, B.7.2, B.7.3, B.7.4, B.8, B.9, B.10 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
38.		Transformers	Annex C, C.1, C.2 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
39.		Measuring instruments for touch current tests	Annex D, D.1, D.2 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
40.		Temperature rises of windings	Annex E IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
41.		Measurement of clearances and creepage distances	Annex F IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
42.		Alternative method for determining minimum clearances	Annex G, G.1, G.1.1, G.1.2, G.2, G.2.1, G.2.2, G.2.3, G.2.4, G.3, G.4, G.4.1, G.4.2, G.4.3, G.4.4, G.5, G.6 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
43.		Ionizing radiation	Annex H IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013
44.		Table of electrochemical potentials	Annex J IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013
45.		Thermal controls	Annex K, k.1, K.2, K.3, K.4, K.5, K.6 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
46.		Normal load conditions for some types of electrical business equipment	Annex L, L.1, L.2, L.3, L.4, L.5, L.6, L.7 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
47.		Criteria for telephoneringing signals	Annex M, M.1, M.2, M.3, M.3.1, M.3.1.1, M.3.1.2, M.3.1.3, M.3.1.4, M.3.2, M.3.2.1, M.3.2.2, M.3.2.3 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
48.		Impulse test generator	Annex N, N.1, N.2 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
49.		Normative references	Annex P IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
50.		Voltage dependent resistors (VDRs)	Annex Q IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
51.		Examples of requirements for quality control programmes	Annex R, R.1, R.2, IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
52.		Procedure for impulse testing	Annex S, S.1, S.2, S.3 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
53.		Guidance on protection against ingress of water	Annex T IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
54.		Insulated winding wires for use without interleaved insulation	Annex U, U.1, U.2, U.2.1, U.2.2, U.2.3, U.2.4, U3, U.3.1, U.3.2 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
55.		AC power distribution systems	Annex V, V.1, V.2, V.3, V.4 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
56.		Summation of touch currents	Annex W, W.1, W.1.1, W.1.2, W.2, W.2.1, W.2.2, W.2.3 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
57.		Maximum heating effect in transformer tests	Annex X, X.1, X.2 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
58.		Ultraviolet light conditioning test	Annex Y, Y.1, Y.2, Y.3, Y.4 IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
59.		Overvoltage categories	Annex Z IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
60.		Mandrel test	Annex AA IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
61.		Change in second edition	Annex BB IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
62.		Evaluation of integrated circuit (IC) current limiters	Annex CC IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
63.		Requirements for themounting means of rack-mounted equipment	Annex DD IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2: 2013
64.		Household and home/office document/media shredders	Annex EE IS 13252 (Part 1): 2010 +A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Audio/Video, Information and Communication Technology Equipment	Alternative Method for Determining Clearances for Insulation In Circuits Connected To An Ac Mains Not Exceeding 420V Peak (300 V Rms)	Annex X IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
2.		Antenna terminal insulation	Cl. 5.4.5, Cl. 5.4.5.1, Cl. 5.4.5.2, Cl. 5.4.5.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
3.		Back feed safeguard in battery backed up supplies	Cl. 5.8 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
4.		Ball pressure test	Cl. 5.4.1.10.3 IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
5.		Capacitor discharge after disconnection of a connector	Cl. 5.5.2.2, IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
6.		Carts, Stands, and similar carriers	Cl. 8.10, Cl. 8.10.1, Cl. 8.10.2, Cl. 8.10.3, Cl. 8.10.4, Cl. 8.10.5, Cl. 8.10.6, IS 62368 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
7.		Circuits Intended For Interconnection with building Wiring	Annex Q, Q.1, Q.1.1, Q.1.2, Q.2 IS 62368-1:2018, EN 62368 1:2020, IEC 62368-1: 2018
8.		Classification and limits of electrical energy sources	Cl. 5.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
9.		Clearance	Cl. 5.4.2, Cl. 5.4.2.1 Cl. 5.4.2.2, Cl. 5.4.2.3, Cl. 5.4.2.3.1, Cl. 5.4.2.3.2, Cl. 5.4.2.3.2.1, Cl. 5.4.2.3.2.2, Cl.5.4.2.3.2.3, Cl. 5.4.2.3.2.4, Cl.5.4.2.3.2.5, Cl. 5.4.2.3.3, Cl. 5.4.2.3.4, Cl. 5.4.2.4, Cl. 5.4.2.5, Cl. 5.4.2.4, Cl. 5.4.2.5, Cl. 5.4.2.6 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
10.		Comparison of terms introduced in this document	Annex W IS 62368- 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
11.		Components requirements	Cl. 4.10, Cl. 4.10.1, Cl. 4.10.2 & Annex G.1, G.2 IS62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
12.		Components as safeguards, General, Capacitor and RC unit, General Requirement	Cl. 5.5, Cl. 5.5.1, Cl. 5.5.2, Cl. 5.5.2.1, Cl. 5.5.2.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
13.		Construction requirements for outdoor enclosure	Annex Y, Y.1, Y.2, Y.3, Y.3.1 to Y.3.5, Y.4, Y.4.1 to Y.4.6, Y.5, Y.5.1 to Y.5.5, Y.5.5.1 to Y.5.5.3, Y.6, Y.6.1, Y.6.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
14.		Creepage distance	Cl. 5.4.3, Cl. 5.4.3.1, Cl. 5.4.3.2, Cl. 5.4.3.3, Cl. 5.4.3.4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
15.		Criteria For Telephone Ringing Signals	Annex H, H.1, H.2, H.3, H.3.1, H.3.1.1 to H.3.1.4, H.3.2, H.3.2.1 to H.3.2.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
16.		Determination Of Accessible Parts	Annex V, V.1, V.1.1 to V.1.6, V.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
17.		Determination of working voltage, General, RMS working voltage, Insulating surface	Cl. 5.4.1.8, Cl. 5.4.1.8.1, Cl. 5.4.1.8.2, Cl. 5.4.1.9 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
18.		Disconnect Devices	Annex L, L.1 to L.9 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
19.		Displacement of a safeguard by an insulating liquid	Cl. 4.4.4 & Annex K IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
20.		Drop Test	Cl. 4.4.3.3 & T.7 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
21.		Electric strength	Cl. 5.4.9, Cl. 5.4.9.1, Cl. 5.4.9.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
22.		Electrical energy source classifications	Cl. 5.2.1, Cl. 5.2.1.1, Cl. 5.2.1.2, Cl. 5.2.1.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018

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Electronic Testing			
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23.		Electrical energy source ES1 and ES2 limits	Cl. 5.2.2, Cl. 5.2.2.1, Cl. 5.2.2.2, Cl. 5.2.2.3, Cl. 5.2.2.4, Cl. 5.2.2.5, Cl. 5.2.2.6, Cl. 5.2.2.7 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
24.		Electrically caused fire	Cl. 6, Cl. 6.1, Cl. 6.2, Cl. 6.2.1, Cl. 6.2.2, Cl. 6.2.2.1 to Cl. 6.2.2.6, Cl. 6.2.3, Cl. 6.2.3.1, Cl. 6.2.3.2, Cl. 6.3, Cl. 6.3.1, Cl. 6.3.2 Cl. 6.4, Cl. 6.4.1, Cl. 6.4.2, Cl. 6.4.3, Cl. 6.4.3.1 to Cl. 6.4.3.3, Cl. 6.4.4, Cl. 6.4.5, Cl. 6.4.5.1 to Cl. 6.4.5.3, Cl. 6.4.6, Cl. 6.4.7, Cl. 6.4.7.1, Cl. 6.4.7.2, Cl. 6.4.7.3, Cl. 6.4.7.4, Cl. 6.4.8, Cl. 6.4.8.1, Cl. 6.4.8.2, Cl. 6.4.8.2.1 to Cl. 6.4.8.2.3, Cl. 6.4.8.3, Cl. 6.4.8.3.1, to Cl. 6.4.8.3.7, Cl. 6.4.8.4, Cl. 6.4.9 IS 62368- 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
25.		Electrically-caused injury	Cl. 5, Cl. 5.1 IS 62368- 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
26.		Electrochemical Potentials	Annex N IS 62368- 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
27.		Energy source classifications	Cl. 4.2, Cl. 4.2.1, Cl. 4.2.2, Cl. 4.2.3, Cl. 4.2.4

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			IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
28.		Equipment Containing Batteries And Their Protection Circuits	Annex M, M.1, M.2, M.2.1, M.2.2, M.3, M.3.1 to M.3.3, M.4, M.4.1, M.4.2, M.4.2.1, M.4.2.2, M.4.3, M.4.4, M.4.4.1 to M.4.4.6, M.5, M.5.1, M.5.2, M.6, M.6.1, M.6.2, M.7, M.7.1 to M.7.4, M.8, M.8.1, M.8.2, M.9, M.9.1, M.9.2, M.10 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
29.		Equipment containing coin /button cell Batteries	Cl. 4.8, Cl. 4.8.1, Cl. 4.8.2, Cl. 4.8.3, Cl. 4.8.4, Cl. 4.8.4.1, Cl. 4.8.4.2, Cl. 4.8.4.3, Cl. 4.8.4.4, Cl. 4.8.4.5, Cl. 4.8.4.6, Cl. 4.8.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
30.		Equipment design and construction	Cl. 4.1.3, B.2, B.3 & B.4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
31.		Equipment for direct insertion into mains socket-outlets	Cl. 4.7, Cl. 4.7.1, Cl. 4.7.2, Cl. 4.7.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
32.		Equipment Markings, Instructions, And Instructional Safeguards	Annex F, F.1, F.2, F.2.1 to F.2.3, F.3, F.3.1, F.3.2, F.3.2.1, F.3.2.2, F.3.3.3, F.3.3.1 to F.3.3.8, F.3.4, F.3.5, F.3.5.1

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			to F.3.7, F.3.6, F.3.6.1, F.3.6.1.1, F.3.6.1.2, F.3.6.2 to F.3.6.4, F.3.7 to F.3.10, F.3.10.1 to F.3.10.4, F4, F5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
33.		Equipment mounted to a wall, ceiling or other structure	Cl. 8.7, Cl. 8.7.1, Cl. 8.7.2, Cl. 8.7.3, IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
34.		Explosion, General, Requirement	Cl. 4.5, Cl. 4.5.1, Cl. 4.5.2 & Clause B.2, B.3 and B.4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
35.		Fixing of conductors	Cl. 4.6, Cl. 4.6.1, Cl. 4.6.2, & Clause T.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
36.		General	Cl. 4.3.1 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
37.		General	Cl. 4.1, Cl. 4.1.1, Cl. 4.1.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
38.		General requirements	Cl. 4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
39.		General, Equipment installation	Cl. 4.1.4, Cl. 4.1.5, Cl. 4.1.6, Cl. 4.1.7, Cl. 4.1.8, Cl. 4.1.9, Cl. 4.1.10, Cl. 4.1.11, Cl. 4.1.12, Cl. 4.1.13, Cl. 4.1.14 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
40.		Handle strength	Cl. 8.8, Cl. 8.8.1, Cl. 8.8.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
41.		Humidity conditioning	Cl. 5.4.8 IS 62368 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
42.		Impact Test	Cl. 4.4.3.4 & T.6 IS62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
43.		Injury Caused by hazardous Substances	Cl. 7, Cl. 7.1, Cl. 7.2, Cl. 7.3, Cl. 7.4, Cl. 7.5, Cl. 7.6, Annex M IS 62368- 1:2018, EN 62368-1:2020, IEC 62368-1: 2018
44.		Insulated Winding Wires for Use Without Interleaved Insulation	Annex J, J.1, J.2, J.2.1, J.2.2, J.2.2.1, J.2.2.1.1 to J.2.2.1.3, J.2.2.2, J.2.3, to J.2.5, J.3, J.3.1 to J.3.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018: 2018
45.		Insulating Liquid	Cl. 5.4.12, Cl. 5.4.12.1, Cl. 5.4.12.2, Cl. 5.4.12.3, Cl. 5.4.12.4 IS 62368-1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
46.		Insulation material and requirements, General, Maximum operating temperatures for materials,	Cl. 5.4, Cl. 5.4.1, Cl. 5.4.1.1, Cl. 5.4.1.2, Cl. 5.4.1.3, Cl. 5.4.1.4, Cl. 5.4.1.4.1, Cl. 5.4.1.4.2, Cl. 5.4.1.4.3, Cl. 5.4.1.5, Cl. 5.4.1.5.1, Cl. 5.4.1.5.2, Cl. 5.4.1.5.3, Cl. 5.4.1.6,

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		components and systems, Pollution degrees	Cl. 5.4.1.7, IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
47.		Internal Accessible safeguard tests, Glass Impact Test., Glass Fixation Test, Glass Fixation Test, Thermoplastic material test, Air comparing safeguard, Compliance criteria	Cl. 4.4.3.5 & T.6, Cl. 4.4.3.6 & T.9, Cl. 4.4.3.7 & T.9, Cl. 4.4.3.8 & T.8, Cl. 4.4.3.9 & Annex T, Cl. 4.4.3.10 & Annex T.10 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
48.		Internal and external wiring, Safeguards against fire due to the connection of additional equipment	Cl. 6.5, Cl. 6.5.1, Cl. 6.5.2, Cl. 6.5.3, Cl. 6.6, Annex Q IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
49.		Likelihood of fire or shock due to entry of conductive objects	Cl. 4.9 & Annex P IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
50.		Limited Short Circuit Test	Annex R, R.1 to R.4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
51.		Marking And Instruction	Cl. 4.1.15 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
52.		Measurement Of Creepage Distances And Clearances	Annex O IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
53.		Mechanical energy source classifications	Cl. 8.2, Cl. 8.2.1, Cl. 8.2.2, Cl. 8.2.3, Cl. 8.2.4, Cl. 8.3, Cl. 8.4, Cl. 8.5, Cl. 8.6, Cl. 8.7, Cl. 8.8, Cl. 8.9, Cl. 8.10, Cl. 8.12

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			IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
54.		Mechanical Strength Tests	Annex T, T.1, T.2, T.3, T.4, T.5, T.6, T.7., T.8, T.9, T.10, T.11 IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
55.		Mechanically-caused injury, General	Cl. 8, Cl. 8.1, IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
56.		Mounting means for slide-rail mounted equipments' (SRME)	Cl. 8.11, Cl. 8.11.1, Cl. 8.11.2, Cl. 8.11.3, Cl. 8.11.3.1, Cl. 8.11.3.2, Cl. 8.11.3.3, Cl. 8.11.4, IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
57.		Normal Operating Condition Tests, Abnormal Operating Condition Tests and Single Fault Condition Tests	Annex B, B.1, B.1.1 to B.1.5, B.2, B.2.1 to B.2.6, B.2.6.1 to B.2.6.3, B.2.7, B.3, B.3.1 to B.3.8, B.4, B.4.1 to B.4.3, B.4.3.1, B.4.3.2, B.4.4, B.4.4.1 to B.4.4.3, B.4.5, B.4.6, B.4.7, B.4.8, B.4.9 IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
58.		Overvoltage categories	Annex I IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
59.		Prospective touch voltage touch current and protective conductor current	Cl. 5.7, Cl. 5.7.1, Cl. 5.7.2, Cl. 5.7.2.1, Cl. 5.7.2.2, Cl. 5.7.3, Cl. 5.7.4, Cl. 5.7.5, Cl. 5.7.6, Cl. 5.7.7,

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			Cl. 5.7.7.1, Cl. 5.7.7.2, Cl. 5.7.8 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
60.		Protection against electrical energy sources	Cl. 5.3, Cl. 5.3.1, Annex V, Cl. 5.3.2, Cl. 5.3.2.1, Cl. 5.3.2.2, Cl. 5.3.2.3, Cl. 5.3.2.4 Cl. 5.3.1 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
61.		Protection against energy sources	Cl. 4.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
62.		Protective conductor	Cl. 5.6, Cl. 5.6.1, Cl. 5.6.2, Cl. 5.6.2.1, Cl. 5.6.2.2, Cl. 5.6.3, Cl. 5.6.4, Cl. 5.6.4.1, Cl. 5.6.4.2, Cl. 5.6.4.2.1, Cl. 5.6.4.2.2, Cl. 5.6.4.2.3, Cl. 5.6.4.2.4, Cl. 5.6.5, Cl. 5.6.5.1, Cl. 5.6.5.2, Cl. 5.6.6, Cl. 5.6.6.1, Cl. 5.6.6.2, Cl. 5.6.6.3, Cl. 5.6.7, Cl. 5.6.8 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
63.		Resistance to heat and fire	Annex S, S.1, S.2, S.3, S.3.1, S.3 S.3.2, S.4, S.5 5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
64.		Safeguard robustness, General	Cl. 4.4.3, Cl. 4.4.3.1 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
65.		Safeguards	Cl. 4.4, Cl. 4.4.1, Cl. 4.4.2 IS 62368-1:2018, EN 62368-1:2020,

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			IEC 62368-1: 2018
66.		Safeguards Against Conductive Objects	Annex P, P.1, P.2, P.2.1 to P.2.3, P.2.3.1, P.2.3.2, P.3, P.3.1 to P.3.4, P.4, P.4.1, P.4.2 IS 62368- 1:2008, EN 62368- 1:2020, IEC 62368-1: 2018
67.		Safeguards against mechanical energysources	Cl. 8.3, IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
68.		Safeguards against moving parts	Cl. 8.5, Cl. 8.5.1, Cl. 8.5.2, Cl. 8.5.3, Cl. 8.5.4, Cl. 8.5.4.1, 8.5.4.2, Cl. 8.5.4.2.1, Cl. 8.5.4.2.2, Cl. 8.5.4.2.2.1 to Cl. 8.5.4.2.4, Cl. 8.5.4.3, Cl. 8.5.4.3.1 to Cl. 8.5.4.3.5, Cl. 8.5.5, Cl. 8.5.5.1, Cl. 8.5.5.2, Cl. 8.5.5.3, IS 62368- 1:2018, EN 62368- 1:2020, IEC 62368-1: 2018
69.		Safeguards against transient voltage from external circuits	Cl. 5.4.10, Cl. 5.4.10.1, Cl. 5.4.10.2, Cl. 5.4.10.2.1, Cl. 5.4.10.2.2, Cl. 5.4.10.2.3, Cl. 5.4.10.3 IS 62368- 1:2018, EN 62368-1:2020, IEC 62368- 1: 2018
70.		Safeguards against parts with sharp edges and corners	Cl. 8.4, Cl. 8.4.1, Cl. 8.4.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
71.		Safeguards for protection of a skilled person	Cl. 4.3.4, Cl. 4.3.4.1, Cl. 4.3.4.2, Cl. 4.3.4.3 IS 62368-1:2018, EN 62368-1:2020,

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Accreditation Standard: ISO/IEC 17025:2017

Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			IEC 62368-1: 2018
72.		Safeguards for protection of an instructed person	Cl. 4.3.3, Cl. 4.3.3.1, Cl. 4.3.3.2, Cl. 4.3.3. IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
73.		Safeguards for protection of an ordinary person	Cl. 4.3.2, Cl. 4.3.2.1, Cl. 4.3.2.2, Cl. 4.3.2.3, Cl. 4.3.2.4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
74.		Safeguards in a restricted access area	Cl. 4.3.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
75.		Safety Interlocks	Annex K, K.1, K.1.1, K.1.2, K.2 to K.5, K.5.1, K.5.2, K.6, K.6.1, K.6.2, K.7, K.7.1 to K.7.4 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
76.		Safety interlocks	Cl. 4.4.5, Annex K IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
77.		Separation between external circuits and earth	Cl. 5.4.11, Cl. 5.4.11.1, Cl. 5.4.11.2, Cl. 5.4.11.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018



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Electronic Testing			
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78.		Simulated abnormal operating conditions /Simulated single faultconditions	Annex B.2.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
79.		Solid Insulation	Cl. 5.4.4, Cl. 5.4.4.1, Cl. 5.4.4.2, Cl. 5.4.4.3, Cl. 5.4.4.4, Cl. 5.4.4.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
80.		Solid insulation in wound components, Compliance criteria, Solid insulation requirement	Cl. 5.4.4.7, Cl. 5.4.4.8, Cl. 5.4.4.9, IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
81.		Stability of equipment	Cl. 8.6, Cl. 8.6.1, Cl. 8.6.2, Cl. 8.6.2.1, Cl. 8.6.2.2, Cl. 8.6.2.3, Cl. 8.6.2.4, Cl. 8.6.3, Cl. 8.6.3.1, Cl. 8.6.3.2, Cl. 8.6.4, Cl. 8.6.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
82.		Steady Force Test	Cl. 4.4.3.2, T.3, T.4 & T.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
83.		Telescoping rod antenna	Cl. 8.12 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
84.		Test conditions for equipment containing audio amplifiers	Annex E, E.1, E.2, E.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018



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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
85.		Test For semiconductor components and for cemented joints	Cl. 5.4.6, Cl. 5.4.7 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
86.		Test generator	Annex D, D.1, D.2, D.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
87.		Thermal Burn injury	Cl. 9, Cl. 9.1, Cl. 9.2, Cl. 9.2.1, Cl. 9.2.2, Cl. 9.2.3, Cl. 9.3, Cl. 9.3.1, Cl. 9.3.2, Cl. 9.4, Cl. 9.5, Cl. 9.5.1, Cl. 9.5.2, Cl. 9.6, Cl. 9.6.1, Cl. 9.6.2, Cl. 9.6.3 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
88.		Thermoplastic parts on which conductive metallic parts are directly mounted, Requirements	Cl. 5.4.1.10, Cl. 5.4.1.10.1 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
89.		Thin sheet material	Cl. 5.4.4.6, Cl. 5.4.4.6.1, Cl. 5.4.4.6.2, Cl. 5.4.4.6.3, Cl. 5.4.4.6.4, Cl. 5.4.4.6.5 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
90.		Transformers, Opt coupler, Relay, Resistor, SPDS	Cl. 5.5.3, Cl. 5.5.4, Cl. 5.5.5, Cl. 5.5.6, Cl. 5.5.7, Cl. 5.5.8, Cl. 5.5.9 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
91.		Vi cat test	Cl. 5.4.1.10.2 IS 62368-1:2018, EN 62368-

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Electronic Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			1:2020, IEC 62368-1: 2018
92.		Wheels or casters attachment requirements	Cl. 8.9, Cl. 8.9.1, Cl. 8.9.2 IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1: 2018
93.		Components	Annex G, IS 62368-1:2018, EN 62368-1:2020, IEC 62368-1:2018



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Telecommunication equipment		
1.	Mobile phone handset part 3 Indian language support for mobile phone handsets-specific requirements (second revision)	Requirements	Cl.4, Cl.4.1, Cl. 4.2 IS 16333 (Part 3): 2022
2.	Mobile phone handset part 3 Indian language support for mobile phone handsets-specific requirements (second revision)	Tests	Cl.5 IS 16333 (Part 3): 2022
3.	Mobile phone handset part 3 Indian language support for mobile phone handsets-specific requirements (second revision)	Marking	Cl.6 IS 16333 (Part 3): 2022
4.	Mobile phone handset part 3 Indian language support for mobile phone handsets-specific requirements (second revision)	Basic Latin language English	Annex A IS 16333 (Part 3): 2022
5.	Mobile phone handset part 3 Indian language support for mobile phone handsets-specific requirements (second revision)	Clause 5.1 (optional requirement)	Annex B IS 16333 (Part 3): 2022
6.	Mobile phone handset part 3 Indian language support for mobile phone handsets-specific requirements (second revision)	Characters subject to normalization (NFC)	Annex C IS 16333 (Part 3): 2022

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Accreditation Standard: ISO/IEC 17025:2017

Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electronic Appliances		
1.	LED display /TV	On mode power consumption	Cl.5 of BEE schedule 11 and Cl. 4 of BEE schedule 26 & Cl. 6.4 of IEC 62087-1:2015
2.	LED display /TV	Luminance	Cl.5 of BEE schedule 11 and Cl. 4 of BEE schedule 26 & Cl. 6.5 of IEC 62087-3:2023
3.	LED display /TV	Measurement of power consumption in off mode, partial on mode	Cl.5 of BEE schedule 11 and Cl. 4 of BEE schedule 26 & Cl. 6.6 , Cl. 6.7 of IEC 62087-3:2023
4.	LED display /TV	On mode power consumption	Cl.5 of BEE schedule 11 and Cl. 4 of BEE schedule 26 & Cl. 6.4 of IEC 62087-3:2023
5.	LED display /TV	On mode power consumption	BEE schedule 11 and BEE schedule 26 & Cl. 6.5 of IEC 62087-3:2023
6.	LED display /TV	Standby mode power consumption	Cl.5 of BEE schedule 11 and Cl. 4 of BEE schedule 26 & Cl. 5.3 of IEC 62301: 2011
7.	LED display /TV	Standby mode power consumption	Cl.5 of BEE schedule 11 and Cl. 4 of BEE schedule 26 & Cl. 5.3 of IEC 62301: 2011



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Lead-Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Capacities, dimensions, mass and layout	Cl. 6 IS 14257: 2019
2.		Charging	Cl. 7 IS 14257: 2019
3.		Physical Examination	Cl. 9.3.1 IS 14257: 2019
4.		Dimensions and Layout	Cl. 9.3.2 IS 14257: 2019
5.		Capacity (5 h Rate) Test	Cl. 9.3.4 IS 14257: 2019
6.		Temperature correction test	Cl. 9.3.4.1 IS 14257: 2019
7.		High-Rate Discharge Test	Cl. 9.3.5 IS 14257: 2019
8.		Cold Cranking Performance Test (CCA)	Cl. 9.3.6 IS 14257: 2019
9.		Reserve Capacity Test	Cl. 9.3.7 IS 14257: 2019
10.		Charge Acceptance Test	Cl. 9.3.8 IS 14257: 2019
11.		Water Consumption Test	Cl. 9.3.9 IS 14257: 2019
12.		Charge Retention Test	Cl. 9.3.10 IS 14257: 2019
13.		Light Load Endurance (LLE) Test	Cl. 9.3.11 IS 14257: 2019
14.		Life Cycle Test	Cl. 9.3.12 IS 14257: 2019
15.		Overcharge Endurance Test	Cl. 9.3.13 IS 14257: 2019
16.		Electrolyte Retention Test	Cl. 9.3.14 IS 14257: 2019
17.		Vibration Resistance Test	Cl. 9.3.15 IS 14257: 2019
18.		Strength of Terminal Test	Cl. 9.3.16 IS 14257: 2019
19.		Robustness to Fastening Test	Cl. 9.3.17 IS 14257: 2019
20.		Test for Dry- Charged Battery	Cl. 9.3.18 IS 14257: 2019
21.		Robustness of Handles Test	Cl. B-1.1 IS 14257: 2019
22.		Residual Capacity Test	Cl. B-1.2 IS 14257: 2019

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
23.	Stationary Cells And Batteries, Lead-Acid Type (With Tubular Positive Plates)	Rating and Designation	Cl. 4 IS 1651: 2018
24.		Capacity and Dimensions	Cl. 7 IS 1651: 2018
25.		Marking and packing	Cl. 8 IS 1651: 2018
26.		First Charge	Cl. 11.3 IS 1651: 2018
27.		Specific Gravity of Electrolyte	Cl. 11.4 IS 1651: 2018
28.		Temperature factors of capacity	Cl. 11.6 IS 1651: 2018
29.		Verification of marking and packing	Cl. 12.3 IS 1651 : 2018
30.		Verification of Dimension	Cl. 12.4 IS 1651: 2018
31.		Test for Capacity	Cl. 12.5 IS 1651: 2018
32.		Loss of capacity on Storage	Cl. 12.7 IS 1651: 2018
33.		Endurance Test	Cl. 12.8 IS 1651: 2018
34.		Ampere-hour and watt-hour efficiency Test	Cl.12.9 IS 1651: 2018
35.		Test for voltage During Discharge	Cl. 12.10 IS 1651: 2018
36.		Water loss Test	Cl. 12.11 IS 1651: 2018
37.		Test of Suitability of Floating Battery Operation	Cl. 12.12 IS 1651: 2018
38.		Short circuit current and internal resistance test	Cl. 12.13 IS 1651: 2018
39.	Stationary lead acid batteries- Part 11: Vented type General requirements and methods of test	Mechanical strength	Cl. 4 IEC 60896-11: 2002
40.		Capacity test	Cl. 7, 14 IEC 60896-11:2002
41.		Suitability for floating battery operation	Cl. 8 IEC 60896-11:2002

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
42.		Stationary batteries are mainly used in floating operation	Cl. 8.1 IEC 60896-11:2002
43.		Batteries operating in continuous floating operation	Cl. 8.2 IEC 60896-11:2002
44.		Endurance	Cl. 9 IEC 60896-11:2002
45.		Endurance in cycles	Cl. 9.1 IEC 60896-11:2002
46.		Endurance in overcharge	Cl. 9.2 IEC 60896-11:2002
47.		Charge retention	Cl. 10 IEC 60896-11:2002
48.		Short-circuit current and internal resistance	Cl. 11 IEC 60896-11:2002
49.		Capacity test	Cl. 14 IEC 60896-11:2002
50.		Test of suitability for floating battery operation	Cl. 15 IEC 60896-11:2002
51.		Endurance in discharge-charge cycles	Cl. 16 IEC 60896-11:2002
52.		Endurance in overcharge	Cl. 17 IEC 60896-11:2002
53.		Charge retention test	Cl. 18 IEC 60896-11:2002
54.		Short-circuit current and internal resistance determination	Cl. 19 IEC 60896-11:2002
55.		Cell and battery marking	Cl. 21 IEC 60896-11:2002
56.		Marking of polarity	Cl. 24 IEC 60896-11:2002
57.	Stationary Lead- Acid Batteries (With Tubular Positive Plates) In Monobloc Container	Acceptance Tests	Cl. 3.3 IS 13369: 2017 A1+A2+A3
58.		Capacity and Dimensions	Cl. 7 IS 13369: 2017 A1+A2+A3
59.		Temperature for Testing	Cl. 10.1 IS 13369: 2017 A1+A2+A3
60.		Acceptance Tests	Cl. 11.1.2 IS 13369: 2017 A1+A2+A3

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
61.		Verification of Constructional Requirements	Cl. 11.2 IS 13369: 2017 A1+A2+A3
62.		Verification of Marking and Packing	Cl. 11.3 IS 13369: 2017 A1+A2+A3
63.		Verification of Dimensions	Cl. 11.4 IS 13369: 2017 A1+A2+A3
64.		Test for Capacity	Cl. 11.5 IS 13369: 2017 A1+A2+A3
65.		Loss of Capacity on Storage	Cl. 11.6 IS 13369: 2017 A1+A2+A3
66.		Endurance Test	Cl. 11.7 IS 13369: 2017 A1+A2+A3
67.		Ampere-hour and watt-hour efficiency Test	Cl. 11.8 IS 13369: 2017 A1+A2+A3
68.		Ampere-hour Efficiency Tests	Cl. 11.8 IS 13369: 2017 A1+A2+A3
69.		Watt-hour Efficiency Tests	Cl. 11.8.2 IS 13369: 2017 A1+A2+A3
70.		Gas emission	CL 6.1 IEC 60896-21:2004
71.	Stationary lead- acid batteries- Part 21: Valve regulated types- Methods of test	Short-circuit current and d.c. internal resistance	CL 6.3 IEC 60896-21:2004
72.		Protection against internal ignition from external spark sources	CL 6.4 IEC 60896-21:2004
73.		Protection against ground short propensity	CL 6.5 IEC 60896-21:2004
74.		Content and durability of required markings	CL 6.6 IEC 60896-21:2004
75.		Material identification	CL 6.7 IEC 60896-21:2004
76.		Valve operation	CL 6.8 IEC 60896-21:2004
77.		Intercell connector performance	CL 6.10 IEC 60896-21:2004

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
78.		Discharge capacity	CL 6.11 IEC 60896-21:2004
79.		Charge retention during storage	CL 6.12 IEC 60896-21:2004
80.		Float service with daily discharges	CL 6.13 IEC 60896-21:2004
81.		Recharge behaviour	CL 6.14 IEC 60896-21:2004
82.		Service life at an operating temperature of 40°C	CL 6.15 IEC 60896-21:2004
83.		Impact of a stress temperature of 55°C or 60°C	CL 6.16 IEC 60896-21:2004
84.		Abusive over- discharge	CL 6.17 IEC 60896-21:2004
85.		Thermal runaway sensitivity	CL 6.18 IEC 60896-21:2004
86.		Low temperature sensitivity	CL 6.19 IEC 60896-21:2004
87.		Dimensional stability at elevated internal pressure and temperatures	CL 6.20 IEC 60896-21:2004
88.		Stability against mechanical abuse units during installation	CL 6.21 IEC 60896-21:2004
89.	Stationary lead- acid batteries- Part 22: Valve regulated types- Requirements	Durability requirements	CL 4.4 IEC 60896-22:2004
90.		Short-circuit current and d.c. internal resistance	CL 6.3 IEC 60896-22:2004
91.		Protection against internal ignition from external spark sources	CL 6.4 IEC 60896-22:2004
92.		Protection against ground short propensity	CL 6.5 IEC 60896-22:2004

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
93.		Content and durability of required markings	CL 6.6 IEC 60896-22:2004
94.		Flammability rating of the material	CL 6.9 IEC 60896-22:2004
95.		Discharge capacity performance	CL 6.11 IEC 60896-22:2004
96.		Charge retention during storage	CL 6.12 IEC 60896-22:2004
97.		Float service with daily discharges	CL 6.13 IEC 60896-22:2004
98.		Recharge behaviour	CL 6.14 IEC 60896-22:2004
99.		Service life at an operating temperature of 40°C	CL 6.15 IEC 60896-22:2004
100.		Impact of a stress temperature 55°C or 60°C	CL 6.16 IEC 60896-22:2004
101.		Impact of abusive over-discharges	CL 6.17 IEC 60896-22:2004
102.		Thermal runaway sensitivity	CL 6.18 IEC 60896-22:2004
103.		Impact of low temperature service on capacity	CL 6.19 IEC 60896-22:2004
104.		Dimensional stability at elevated internal pressures and temperatures	CL 6.20 IEC 60896-22:2004
105.		Stability against mechanical abuse of units during installation	CL 6.21 IEC 60896-22:2004
106.		Markings on Cell	CL 8 IS 15549: 2020 A1+A2

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
107.	Stationary Valve Regulated Lead Acid Batteries	Test for C 10 Capacity	CL 12.1 IS 15549: 2020 A1+A2
108.		Test for C1 Capacity	CL 12.2 IS 15549: 2020 A1+A2
109.		Capacity Test at Other Discharge Rates	CL 12.3 IS 15549: 2020 A1+A2
110.		Ampere Hour Efficiency and Watt Hour Efficiency	CL 12.4 & 12.5 IS 15549: 2020 A1+A2
111.		Test for Retention of Charge	CL 12.6 IS 15549: 2020 A1+A2
112.		Test on Separators (Ref to Fig. 1 and Annex B for Test Set Up and Procedure)	CL 12.7 IS 15549: 2020 A1+A2
113.		Test for Vent Seal Operation	CL 12.8 IS 15549: 2020 A1+A2
114.		Test for Oxygen Recombination Efficiency (Ref to Fig. 2 and Annex C for Test Set Up)	CL 12.9 IS 15549: 2020 A1+A2
115.		Endurance Life Cycle Test	CL 12.10 IS 15549: 2020 A1+A2
116.	Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes — Secondary Sealed Cells and Batteries for Portable Applications Part 1 Nickel-cadmium	Parameter measurement tolerances	CI 4 IS 16048 (Part 1): 2021
117.		Cell and battery designation	CI. 5 IS 16048 (Part 1): 2021
118.		Cell and battery designation and marking	CI. 5.1 IS 16048 (Part 1): 2021
119.		Marking	CL 5.3 IS 16048 (Part 1): 2021
120.		Electrical tests	CI. 7 IS 16048 (Part 1): 2021
121.		Charging procedure for test purposes	CL 7.2 IS 16048 (Part 1): 2021
122.		Charging procedure for cell	CI. 7.2.1 IS 16048 (Part 1): 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
123.		Charging procedure for battery	CI.7.2.2 IS 16048 (Part 1): 2021
124.		Discharge performance	CI 7.3 IS 16048 (Part 1): 2021
125.		Discharge performance at 20 °C	CI 7.3.2 IS 16048 (Part 1): 2021
126.		Discharge performance for cells at 20 °C	CI 7.3.2.2 IS 16048 (Part 1): 2021
127.		Discharge performance for batteries at 20 °C	CI. 7.3.2.3 IS 16048 (Part 1): 2021
128.		Discharge performance at – 18 °C	CI 7.3.3 IS 16048 (Part 1): 2021
129.		Discharge performance for rapid charge cells (R cells)	CI 7.3.4 IS 16048 (Part 1): 2021
130.		Charge (capacity) retention	CI 7.4 IS 16048 (Part 1): 2021
131.		Endurance	CL 7.5 IS 16048 (Part 1): 2021
132.		Endurance in cycles	CI 7.5.1 IS 16048 (Part 1): 2021
133.		Cylindrical cells (accelerated test procedures)	CI 7.5.1.4 IS 16048 (Part 1): 2021
134.		Permanent charge endurance	CI 7.5.2 IS 16048 (Part 1): 2021
135.		Internal resistance	CI 7.12 IS 16048 (Part 1): 2021
136.		Measurement of the internal AC resistance	CI 7.12.2 IS 16048 (Part 1): 2021
137.		Measurement of the internal DC resistance	CI 7.12.3 IS 16048 (Part 1): 2021
138.	Secondary cells and batteries containing alkaline or other non-acid electrolytes –	Cell and battery designation and marking	CI 5 IEC 61951-1:2017
139.		Marking	CI 5.3 IEC 61951-1:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
140.	Secondary sealed cells and batteries for portable applications – Part 1: Nickel-cadmium	Charging procedure for test purposes	CI 7.2 IEC 61951-1:2017
141.		Charging procedure for cell	CI 7.2.1 IEC 61951-1:2017
142.		Charging procedure for battery	CI 7.2.2 IEC 61951-1:2017
143.		Discharge performance	CL 7.3 IEC 61951-1:2017
144.		Discharge performance at 20 °C	CI 7.3.2 IEC 61951-1:2017
145.		Discharge performance for batteries at 20 °C	CI 7.3.2.3 IEC 61951-1:2017
146.		Discharge performance at (– 18 °C)	CL 7.3.3 IEC 61951-1:2017
147.		Discharge performance for rapid charge cells (R cells)	CI 7.3.4 IEC 61951-1:2017
148.		Charge (capacity) retention	CI 7.4 IEC 61951-1:2017
149.		Endurance	CI 7.5 IEC 61951-1:2017
150.		Endurance in cycles	CI 7.5.1 IEC 61951-1:2017
151.		Cylindrical cells (accelerated test procedures)	CI 7.5.1.4 IEC 61951-1:2017
152.		Permanent charge endurance	CI 7.5.2 IEC 61951-1:2017
153.		Charge acceptance at constant voltage	CI 7.6 IEC 61951-1:2017
154.		Overcharge	CI 7.7 IEC 61951-1:2017
155.		Charge acceptance at +55 °C for LT, MT or HT cylindrical cells	CI 7.10 IEC 61951-1:2017
156.		Internal resistance	CL 7.12 IEC 61951-1:2017
157.		Measurement of the internal AC	CI. 7.12.2 IEC 61951-1:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		resistance	
158.		Measurement of the internal DC resistance	CI 7.12.3 IEC 61951-1:2017
159.	Electrically Propelled Road Vehicles- Dimensions And Designation of Secondary Lithium-Ion Cells	Shape of construction And constituent parts of Secondary lithium-ion cell	CI 4 IS 16827: 2018
160.		Shape of construction	CI 4.1 IS 16827: 2018
161.		Designation of cell	CI 5 IS 16827: 2018
162.		Dimensions for the selected cell design	CI 7 IS 16827: 2018
163.	Household and Commercial Batteries	Short-Circuit	CI 9 UL 2054: 2011
164.		Abnormal Charging	CI 10 UL 2054: 2011
165.		Abusive Overcharge	CI 11 UL 2054: 2011
166.		Forced discharge	CI 12 UL 2054: 2011
167.		Limited Power Source	CI 13 UL 2054: 2011
168.		Battery Pack Surface Temp.	CI 13B UL 2054: 2011
169.		Crush	CI 14 UL 2054: 2011
170.		Impact	CI 15 UL 2054: 2011
171.		Shock test	CI 16 UL 2054: 2011
172.		Vibration test	CI 17 UL 2054: 2011
173.		250 N Steady Force	CI 19 UL 2054: 2011
174.		Mold Stress Relief	CI 20 UL 2054: 2011
175.		Drop Impact	CI 21 UL 2054: 2011
176.		Heating	CI 23 UL 2054: 2011



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
177.	Lithium Batteries	Temperature Cycling	CI 24 UL 2054: 2011
178.		External short circuit	CI 10 Edition 6 UL 1642: 2020
179.		Abnormal Charging	CI 11 Edition 6 UL 1642: 2020
180.		Forced discharge	CI 12 Edition 6 UL 1642: 2020
181.		Crush	CI 13 Edition 6 UL 1642: 2020
182.		Impact	CI 14 Edition 6 UL 1642: 2020
183.		Shock	CI 15 Edition 6 UL 1642: 2020
184.		Vibration	CI 16 Edition 6 UL 1642: 2020
185.		Heating	CI 17 Edition 6 UL 1642: 2020
186.		Temperature Cycling	CI 18 Edition 6 UL 1642: 2020
187.		Low Pressure (Altitude Simulation)	CI 19 Edition 6 UL 1642: 2020
188.	Secondary Cells and Batteries containing Alkaline or other non-acid Electrolyte Portable Sealed Secondary Cells and Batteries made from them, for use in Portable Application	Altitude Simulation	CI 38.3.4.1 UN 38.3 Seventh revised edition: 2019
189.		Thermal Test	CI 38.3.4.2 UN 38.3 Seventh revised edition: 2019
190.		Vibration Test	CI 38.3.4.3 UN 38.3 Seventh revised edition: 2019
191.		Shock test	CI 38.3.4.4 UN 38.3 Seventh revised edition: 2019
192.		External Short Circuit Test	CI 38.3.4.5 UN 38.3 Seventh revised edition: 2019
193.		Impact/Crush test	CI 38.3.4.6 UN 38.3 Seventh revised edition: 2019



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
194.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Safety requirements For Lithium Cells and Batteries, for Use In industrial Applications	Overcharge Test	CI 38.3.4.7 UN 38.3 Seventh revised edition: 2019
195.		Force discharge test	CI 38.3.4.8 UN 38.3 Seventh revised edition: 2019
196.		Insulation and wiring	CI 5.2 IS 16805/ IEC 62619: 2018
197.		Temperature/voltage/current management	CI 5.4 IS 16805/ IEC 62619: 2018
198.		Specific requirements and tests	CI 7 IS 16805/ IEC 62619: 2018
199.		Charging procedures for test purposes	CI 7.1 IS 16805/ IEC 62619: 2018
200.		Reasonably foreseeable misuse	CI 7.2 IS 16805/ IEC 62619: 2018
201.		External short- circuit test (Cell or cell block)	CI 7.2.1 IS 16805/ IEC 62619: 2018
202.		Impact test (Cell or cell block)	CI 7.2.2 IS 16805/ IEC 62619: 2018
203.		Drop test (Cell or Cell block, and battery system)	CI 7.2.3 IS 16805/ IEC 62619: 2018
204.		Whole drop test (Cell or cell block and battery system)	CI 7.2.3.2 IS 16805/ IEC 62619: 2018
205.		Edge and corner drop test (Cell or cell block, and battery system)	CI 7.2.3.3 IS 16805/ IEC 62619: 2018
206.		Thermal abuse test (Cell or cell block)	CI 7.2.4 IS 16805/ IEC 62619: 2018
207.		Overcharge test (Cell or cell block)	CI 7.2.5 IS 16805/ IEC 62619: 2018



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
208.		Forced discharge test (Cell or cell block)	CI 7.2.6 IS 16805/ IEC 62619: 2018
209.		Internal Short circuit test (Cell)	CI 7.3.2 IS 16805/ IEC 62619: 2018
210.		Propagation test (Battery system)	CI 7.3.3 IS 16805/ IEC 62619: 2018
211.	Secondary Cells and Batteries Containing Alkaline or Other Non-acid Electrolytes — Secondary Sealed Cells and Batteries for Portable Applications Part 1 Nickel-cadmium	Parameter measurement tolerances	CI 4 IS 16048 (Part 2): 2021
212.		Cell and battery designation and marking	CI 5 IS 16048 (Part 2): 2021
213.		Marking	CI 5.3 IS 16048 (Part 2): 2021
214.		Electrical tests	CI 7 IS 16048 (Part 2): 2021
215.		Charging procedure for test purposes	CI 7.2 IS 16048 (Part 2): 2021
216.		Charging procedure for cell	CI 7.2.1 IS 16048 (Part 2): 2021
217.		Charging procedure for battery	CI 7.2.2 IS 16048 (Part 2): 2021
218.		Discharge performance	CI 7.3 IS 16048 (Part 2): 2021
219.		Discharge performance at 20 °C	CI 7.3.2 IS 16048 (Part 2): 2021
220.		Discharge performance at 0 °C	CI 7.3.3 IS 16048 (Part 2): 2021
221.		Discharge performance for cells at 20 °C	CI. 7.3.2.2 IS 16048 (Part 2): 2021
222.		Discharge performance for batteries at 20 °C	CI 7.3.2.3 IS 16048 (Part 2): 2021
223.		Discharge performance for rapid charge cells (R cells)	CI. 7.3.4 IS 16048 (Part 2): 2021
224.		Charge (capacity) retention	CI 7.4 IS 16048 (Part 2): 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
225.		Endurance	CI 7.5 IS 16048 (Part 2): 2021
226.		Charge acceptance at constant voltage	CI 7.6 IS 16048 (Part 2): 2021
227.		Charge acceptance at constant voltage	CI 7.6 IS 16048 (Part 2): 2021
228.		Overcharge	CL 7.7 IS 16048 (Part 2): 2021
229.		Surface temperature limitation device operation (for S cell only)	CI 7.9 IS 16048 (Part 2): 2021
230.		Charge acceptance at +55 °C for LT, MT or HT cylindrical cells	CI 7.11 IS 16048 (Part 2): 2021
231.		Charge acceptance at +55 °C for LT, MT or HT cylindrical cells	CI 7.11 IS 16048 (Part 2): 2021
232.		Internal resistance	CI. 7.13 IS 16048 (Part 2): 2021
233.		Measurement of the internal AC resistance	CI 7.13.1 IS 16048 (Part 2): 2021
234.		Measurement of the internal DC resistance	CI 7.13.2 IS 16048 (Part 2): 2021
235.		Mechanical tests	CI 8 IS 16048 (Part 2): 2021
236.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes- Secondary Lithium Cells And Batteries for Use in Industrial Applications	Parameter measurement and tolerances	CI 4 IS 16822 / IEC 62620 : 2019
237.		Marking and designation	CI 5 IS 16822 / IEC 62620 : 2019
238.		Marking	CI 5.1 IS 16822 / IEC 62620 : 2019
239.		Cell designation	CI 5.2 IS 16822 / IEC 62620 : 2019
240.		Battery Designation	CI 5.3 IS 16822 / IEC 62620 : 2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
241.		Charging procedure for test purposes	CI 6.2 IS 16822 / IEC 62620: 2019
242.		Discharge performance	CI 6.3 IS 16822 / IEC 62620: 2019
243.		Discharge performance at +25°C	CI 6.3.1 IS 16822 / IEC 62620: 2019
244.		Discharge performance at low temperature	CI 6.3.2 IS 16822 / IEC 62620: 2019
245.		High rate permissible current	CI 6.3.3 IS 16822 / IEC 62620: 2019
246.		Charge (capacity) retention and recovery	CI 6.4 IS 16822 / IEC 62620: 2019
247.		Cell and battery internal resistance	CI 6.5 IS 16822 / IEC 62620: 2019
248.		Measurement of the internal AC resistance	CI 6.5.2 IS 16822 / IEC 62620: 2019
249.		Measurement of the internal d.c. resistance	CI 6.5.3 IS 16822 / IEC 62620: 2019
250.		Endurance	CI 6.6 IS 16822 / IEC 62620: 2019
251.		Endurance in cycles	CI 6.6.1 IS 16822 / IEC 62620: 2019
252.		Endurance in storage at constant voltage (permanent charge life)	CI 6.6.2 IS 16822 / IEC 62620: 2019
253.		Electrical tests	CI 7.3.2 IS 16822 / IEC 62620: 2019
254.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes —	Parameter measurement tolerances	CL 4 IS 16047 (Part 3)/IEC 61960-3: 2018
255.		Cell designation and marking	CI 5 IS 16047 (Part 3)/IEC 61960-3: 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
256.	Secondary Lithium Cells and Batteries for Portable Applications Part 3 Prismatic and Cylindrical Lithium Secondary Cells, and Batteries Made From Them	Cell and battery designation	CI 5.1 IS 16047 (Part 3)/IEC 61960-3: 2018
257.		Marking	CI 5.2 IS 16047 (Part 3)/IEC 61960-3: 2018
258.		Charging procedure for test purposes	CL 7.2 IS 16047 (Part 3)/IEC 61960-3: 2018
259.		Discharge performance	CI 7.3 IS 16047 (Part 3)/IEC 61960-3: 2018
260.		Discharge performance at 20 °C (rated capacity)	CI 7.3.1 IS 16047 (Part 3)/IEC 61960-3: 2018
261.		Discharge performance at -20 °C	CI 7.3.2 IS 16047 (Part 3)/IEC 61960-3: 2018
262.		High rate discharge performance at 20 °C	CI 7.3.3 IS 16047 (Part 3)/IEC 61960-3: 2018
263.		Charge (capacity) retention and recovery	CI 7.4 IS 16047 (Part 3)/IEC 61960-3: 2018
264.		Charge (capacity) recovery after long term storage	CI 7.5 IS 16047 (Part 3)/IEC 61960-3: 2018
265.		Endurance in cycles	CL 7.6 IS 16047 (Part 3)/IEC 61960-3: 2018
266.		Endurance in cycles at a rate of 0,2 It A	CI 7.6. 2 IS 16047 (Part3)/IEC 61960-3:2018
267.		Endurance in cycles at a rate of 0, 5 It A (accelerated test procedure)	CI 7.6.3 IS 16047 (Part 3)/IEC 61960-3:2018



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
268.		Battery internal resistance	CI 7.7 IS 16047 (Part 3)/IEC 61960-3: 2018
269.		Measurement of the internal AC resistance	CI 7.7.2 IS 16047 (Part 3)/IEC 61960-3:2018
270.		Measurement of the internal DC resistance	CL 7.7.3 IS 16047 (Part 3)/IEC 61960-3: 2018
271.		Electrical tests	CI 8.2.2 IS 16047 (Part 3)/IEC 61960-3: 2018
272.	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications –Part 2: Nickel-metal hydride	Parameter measurement tolerances	CI 4 IEC 61951-2:2017
273.		Cell and battery designation and marking	CI 5 IEC 61951-2:2017
274.		Cell and battery designation	CI 5 IEC 61951-2:2017
275.		Marking	CI 5.3 IEC 61951-2:2017
276.		Electrical tests	CI 7 IEC 61951-2:2017
277.		Charging procedure for test purposes	CI 7.2 IEC 61951-2:2017
278.		Charging procedure for cell	CI. 7.2.1 IEC 61951-2:2017
279.		Charging procedure for battery	CI. 7.2.2 IEC 61951-2:2017
280.		Discharge performance	CI 7.3 IEC 61951-2:2017
281.		Discharge performance at 20 °C	CL 7.3.2 IEC 61951-2:2017
282.		Discharge performance for cells at 20 °C	CI 7.3.2.2 IEC 61951-2:2017
283.		Discharge performance for batteries at 20 °C	CI. 7.3.2.3 IEC 61951-2:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
284.		Discharge performance at 0 °C	CL 7.3.3 IEC 61951-2:2017
285.		Discharge performance for rapid charge cells (R cells)	CL 7.3.4 IEC 61951-2:2017
286.		Charge (capacity) retention	CI 7.4 IEC 61951-2:2017
287.		Endurance	CI 7.5 IEC 61951-2:2017
288.		Endurance in cycles	CI 7.5.1 IEC 61951-2:2017
289.		Permanent charge endurance	CI 7.5.2 IEC 61951-2:2017
290.		Charge acceptance at constant voltage	CI 7.6 IEC 61951-2:2017
291.		Overcharge	CI 7.7 IEC 61951-2:2017
292.		Charge acceptance at +55 °C for LT, MT or HT cylindrical cells	CI 7.11 IEC 61951-2: 2017
293.		Internal resistance	CI 7.13 IEC 61951-2:2017
294.		Measurement of the internal AC resistance	CL 7.13.2 IEC 61951-2:2017
295.		Measurement of the internal DC resistance	CI 7.13.3 IEC 61951-2:2017
296.		Mechanical tests	CL 8 IEC 61951-2:2017
297.		Photovoltaic Energy System	CL 4.1 IS 16270: 2019
298.	Secondary Cells and Batteries for Solar Photovoltaic Application General	Material and Constructions	CL 4.2.1 IS 16270: 2019
299.		General operating condition	CL 4.3 IS 16270: 2019
300.		Autonomy Time	CL 4.3.1 IS 16270: 2019



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
301.	Requirements and Methods of test	Typical charge and Discharge currents	CL 4.3.2 IS 16270: 2019
302.		Daily cycle	CL 4.3.3 IS 16270: 2019
303.		Seasonal cycle	CL 4.3.4 IS 16270: 2019
304.		Period of High state of charge	CL 4.3.5 IS 16270: 2019
305.		Period for sustained low state of charge	CL 4.3.6 IS 16270: 2019
306.		Electrolyte Stratification	CL 4.3.7 IS 16270: 2019
307.		Specific gravity	CL 4.3.7.1 IS 16270: 2019
308.		Operating Temperature	CL 4.3.9 IS 16270: 2019
309.		Charge control	CL 4.3.10 IS 16270: 2019
310.		Physical Protection.	CL 4.3.11 IS 16270: 2019
311.		Mechanical Endurance	CL 5.1 IS 16270: 2019
312.		Charge efficiency	CL 5.2 IS 16270: 2019
313.		Deep Discharge Protection	CL 5.3 IS 16270: 2019
314.		Marking	CL 5.4 IS 16270: 2019
315.		Capacity test	CL 8.1 IS 16270: 2019
316.		Endurance Test	CL 8.2 IS 16270: 2019
317.		Charge Retention test	CL 8.3 IS 16270: 2019
318.		Cycling endurance in Photovoltaic applications (extreme conditions)	CL 8.4 IS 16270: 2019
319.		Sulphation Test (Applicable for Lead acid Battery only)	CL 8.5 IS 16270: 2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
320.		Water loss test (valid for flooded lead acid batteries only)	CL 8.6 IS 16270: 2019
321.		Non Spill ability/Semi NonSpill ability/ Splash Proof Test	CL 8.7 IS 16270: 2019
322.		ApplicabilityLead Acid Batteries (BSLA)	CL 8.7.1 IS 16270: 2019
323.		Acceptance Test	CL 9.2 IS 16270: 2019
324.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 2 Reliability and Abuse Testing	Voltage measurement	Cl. 4.2.2 IS 16893 (Part 2)/ IEC 62660-2:2010
325.		Current measurement	Cl. 4.2.3 IS 16893 (Part 2)/ IEC 62660-2:2010
326.		Temperature measurements	Cl. 4.2.4 IS 16893 (Part 2)/ IEC 62660-2:2010
327.		Other measurements	Cl. 4.2.5 IS 16893 (Part 2)/ IEC 62660-2:2010
328.		Test temperature	Cl. 4.4 IS 16893 (Part 2)/ IEC 62660-2:2010
329.		Electrical measurement	Cl. 5 IS 16893 (Part 2)/ IEC 62660-2:2010
330.		Capacity	Cl. 5.2 IS 16893 (Part 2)/ IEC 62660-2:2010
331.		SOC adjustment	Cl. 5.3 IS 16893 (Part 2)/ IEC 62660-2:2010
332.		Reliability and abuse tests	Cl. 6 IS 16893 (Part 2)/ IEC 62660-2:2010

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
333.		Mechanical test	Cl. 6.1 IS 16893 (Part 2)/ IEC 62660-2:2010
334.		Vibration	Cl. 6.1.1 IS 16893 (Part 2)/ IEC 62660-2:2010
335.		Mechanical shock	Cl. 6.1.2 IS 16893 (Part 2)/ IEC 62660-2:2018
336.		Crush	Cl. 6.1.3 IS 16893 (Part 2)/ IEC 62660-2:2018
337.		Thermal test	Cl. 6.2 IS 16893 (Part 2)/ IEC 62660-2:2010
338.		High temperature endurance	Cl. 6.2.1 IS 16893 (Part 2)/ IEC 62660-2:2010
339.		Temperature cycling	Cl. 6.2.2 IS 16893 (Part 2)/ IEC 62660-2:2010
340.		Test without electrical operation	Cl. 6.2.2.1.1 IS 16893 (Part 2)/ IEC 62660-2:2010
341.		Test with electrical operation	Cl. 6.2.2.1.2 IS 16893 (Part 2)/ IEC 62660-2:2018
342.		External short circuit	Cl. 6.3.1 IS 16893 (Part 2)/ IEC 62660-2:2010
343.		Overcharge	Cl. 6.3.2 IS 16893 (Part 2)/ IEC 62660-2:2010
344.		Forced discharge	Cl. 6.3.3 IS 16893 (Part 2)/ IEC 62660-2:2010
345.		Range of measuring devices	Cl. 4.2.1 IS 16893 (Part 3)/ IEC

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			62660-3:2018
346.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles Part 3 Safety Requirements	Voltage measurement	Cl. 4.2.2 IS 16893 (Part 3)/ IEC 62660-3:2018
347.		Current measurement	Cl. 4.2.3 IS 16893 (Part 3)/ IEC 62660-3:2018
348.		Temperature measurements	Cl. 4.2.4 IS 16893 (Part 3)/ IEC 62660-3:2018
349.		Other measurements	Cl. 4.2.5 IS 16893 (Part 3)/ IEC 62660-3:2018
350.		Test temperature	Cl. 4.4 IS 16893 (Part 3)/ IEC 62660-3:2018
351.		Electrical measurement	Cl. 5 IS 16893 (Part 3)/ IEC 62660-3:2018
352.		Capacity	Cl. 5.2 IS 16893 (Part 3)/ IEC 62660-3:2018
353.		SOC adjustment	Cl. 5.3 IS 16893 (Part 3)/ IEC 62660-3:2018
354.		Safety tests	Cl. 6 IS 16893 (Part 3)/ IEC 62660-3:2018
355.		Mechanical tests	Cl. 6.2 IS 16893 (Part 3)/ IEC 62660-3:2018
356.		Vibration	Cl. 6.2.1 IS 16893 (Part 3)/ IEC 62660-3:2018
357.		Mechanical shock	Cl. 6.2.2 IS 16893 (Part 3)/ IEC 62660-3:2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
358.		Crush	Cl. 6.2.3 IS 16893 (Part 3)/ IEC 62660-3:2018
359.		Thermal test	Cl. 6.3 IS 16893 (Part 3)/ IEC 62660-3:2018
360.		High temperature endurance	Cl. 6.3.1 IS 16893 (Part 3)/ IEC 62660-3:2018
361.		Temperature cycling	Cl. 6.3.2 IS 16893 (Part 3)/ IEC 62660-3:2018
362.		Electrical tests	Cl. 6.4 IS 16893 (Part 3)/ IEC 62660-3:2018
363.		External shortcircuit	Cl. 6.4.1 IS 16893 (Part 3)/ IEC 62660-3:2018
364.		Overcharge	Cl. 6.4.2 IS 16893 (Part 3)/ IEC 62660-3:2018
365.		Forced discharge	Cl. 6.4.3 IS 16893 (Part 3)/ IEC 62660-3:2018
366.		Internal shortcircuit test	Cl. 6.4.4 IS 16893 (Part 3)/ IEC 62660-3:2018
367.		Forced internalshort circuit test	Cl. 6.4.4.2.1 IS 16893 (Part 3)/ IEC 62660-3:2018
368.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Portable Sealed Secondary	General safety considerations	Cl.5 IS 16046 (Part1):2018 + A1: 2020
369.		General	Cl.5.1 IS 16046 (Part1):2018 +A1: 2020
370.		Insulation and wiring	Cl.5.2IS 16046 (Part1): 2018 + A1: 2020

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
371.	Cells and for Batteries Made from Them for Use in Portable Applications Part 1 Nickel Systems	Venting	Cl.5.3IS 16046 (Part1):2018 + A1: 2020
372.		Temperature, voltage and current management	Cl.5.4IS 16046 (Part1):2018 + A1: 2020
373.		Terminal contacts	Cl.5.5 IS 16046 (Part1):2018 + A1: 2020
374.		Assembly of cells into batteries	Cl.5.6IS 16046 (Part1):2018 + A1: 2020
375.		Type test and sample size	Cl.6 IS 16046 (Part1):2018 + A1: 2020
376.		Specific requirements and tests	Cl. 7 IS 16046 (Part1):2018 + A1: 2020
377.		Charging procedure for test purposes	Cl. 7.1 IS 16046 (Part1): 2018 + A1: 2020
378.		Intended use	Cl. 7.2 IS 16046 (Part1): 2018 + A1: 2020
379.		Continuous low-rate charging (cells)	Cl. 7.2.1 IS 16046 (Part1):2018 + A1: 2020
380.		Vibration	Cl. 7.2.2 IS 16046 (Part1):2018 + A1: 2020
381.		Case stress at high ambient temperature (batteries)	Cl. 7.2.3 IS 16046 (Part1):2018 + A1: 2020
382.		Temperature cycling	Cl. 7.2.4 IS 16046 (Part1):2018 + A1: 2020
383.		Reasonably foreseeable misuse	Cl. 7.3 IS 16046 (Part1):2018 + A1:

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			2020
384.		Incorrect installation (cells)	Cl. 7.3.1 IS 16046 (Part1):2018 + A1: 2020
385.		External short circuit	Cl. 7.3.2 IS 16046 (Part1):2018 + A1: 2020
386.		Free fall	Cl. 7.3.3 IS 16046 (Part1): 2018 + A1: 2020
387.		Mechanical shock (crash hazard)	Cl. 7.3.4 IS 16046 (Part1):2018 + A1: 2020
388.		Thermal abuse (cells)	Cl. 7.3.5 IS 16046 (Part1):2018 + A1: 2020
389.		Crushing of cells	Cl. 7.3.6 IS 16046 (Part1):2018 + A1: 2020
390.		Low pressure (cells)	Cl. 7.3.7 IS 16046 (Part1): 2018 + A1: 2020
391.		Overcharge	Cl. 7.3.8 IS 16046 (Part1):2018 + A1: 2020
392.		Forced discharge (cells)	Cl. 7.3.9 IS 16046 (Part1): 2018 + A1: 2020
393.		General	Cl. 8.1 IS 16046 (Part1):2018 + A1: 2020
394.		Small cell and battery safety information	Cl. 8.2 IS 16046 (Part1):2018 + A1: 2020
395.		Marking	Cl. 9 IS 16046 (Part1): 2018 + A1: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
396.		Cell marking	Cl. 9.1 IS 16046 (Part1):2018 + A1: 2020
397.		Battery marking	Cl. 9.2 IS 16046 (Part1):2018 + A1: 2020
398.		Caution for ingestion of small cells and batteries	Cl. 9.3 IS 16046 (Part1):2018 + A1: 2020
399.		Packaging	Cl. 10 IS 16046 (Part1):2018 + A1: 2020
400.		Recommendations to equipment manufacturers and battery assemblers	Annex A IS 16046 (Part1): 2018 + A1: 2020
401.		Recommendations to the end-users	Annex B IS 16046 (Part1):2018 + A1: 2020
402.		General safety considerations	Cl.5 IEC 62133-1 : 2017
403.		General	Cl. 5.1 IEC 62133-1 : 2017
404.		Insulation and wiring	Cl.5.2 IEC 62133-1 : 2017
405.		Venting	Cl.5.3 IEC 62133-1 : 2017
406.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes — Safety Requirements for Portable Sealed	Temperature, voltage and current management	Cl.5.4 IEC 62133-1 : 2017
407.		Terminal contacts	Cl.5.5 IEC 62133-1 : 2017
408.		Assembly of cells into batteries	Cl.5.6 IEC 62133-1 : 2017
409.		Type test and sample size	Cl.6 IEC 62133-1 : 2017
410.		Specific requirements and tests	Cl. 7 IEC 62133-1 : 2017
411.		Charging procedure for test purposes	Cl. 7.1 IEC 62133-1 : 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
412.		Intended use	Cl. 7.2 IEC 62133-1 : 2017
413.		Continuous low-rate charging (cells)	Cl. 7.2.1 IEC 62133-1 : 2017
414.		Vibration	Cl. 7.2.2 IEC 62133-1 : 2017
415.		Case stress at high ambient temperature (batteries)	Cl. 7.2.3 IEC 62133-1 : 2017
416.		Temperature cycling	Cl. 7.2.4 IEC 62133-1 : 2017
417.		Reasonably foreseeable misuse	Cl. 7.3 IEC 62133-1 : 2017
418.		Reasonably foreseeable misuse	Cl. 7.3 IEC 62133-1 : 2017
419.		Incorrect installation (cells)	Cl. 7.3.1 IEC 62133-1 : 2017
420.		External short circuit	Cl. 7.3.2 IEC 62133-1 : 2017
421.		Free fall	Cl. 7.3.3 IEC 62133-1 : 2017
422.		Mechanical shock (crash hazard)	Cl. 7.3.4 IEC 62133-1 : 2017
423.		Thermal abuse (cells)	Cl. 7.3.5 IEC 62133-1 : 2017
424.		Crushing of cells	Cl. 7.3.6 IEC 62133-1 : 2017
425.		Low pressure (cells)	Cl. 7.3.7 IEC 62133-1 : 2017
426.		Overcharge	Cl. 7.3.8 IEC 62133-1 : 2017
427.		Forced discharge (cells)	Cl. 7.3.9 IEC 62133-1 : 2017
428.		Information for safety	Cl. 8 IEC 62133-1 : 2017
429.		General	Cl. 8.1 IEC 62133-1 : 2017
430.		Small cell and battery safety information	Cl. 8.2 IEC 62133-1 : 2017
431.		Marking	Cl. 9 IEC 62133-1 : 2017
432.		Cell marking	Cl. 9.1 IEC 62133-1 : 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
433.		Battery marking	Cl. 9.2 IEC 62133-1: 2017
434.		Caution for ingestion of small cells and batteries	Cl. 9.3 IEC 62133-1 : 2017
435.		Packaging	Cl. 10 IEC 62133-1 : 2017
436.		Recommendations to equipment manufacturers and battery assemblers	Annex A IEC 62133-1 : 2017
437.		Recommendations to the end-users	Annex B IEC 62133-1 : 2017
438.	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 Part 2 Lithium Systems	General safety considerations	Cl. 5 IS 16046 (Part2) :2018 +A1 : 2020
439.		General	Cl. 5.1 IS 16046 (Part2):2018+A1 : 2020
440.		Insulation and wiring	Cl. 5.2 IS 16046 (Part2):2018+A1 : 2020
441.		Venting	Cl. 5.3 IS 16046 (Part2):2018+A1 : 2020
442.		Temperature, voltage and current management	Cl. 5.4 IS 16046 (Part2):2018+A1 : 2020
443.		Terminal contacts	Cl. 5.5 IS 16046 (Part2):2018+A1 : 2020
444.		Assembly of cells into batteries	Cl. 5.6 IS 16046 (Part2):2018+A1 : 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
445.		General	Cl. 5.6.1 IS 16046 (Part2):2018+A1 : 2020
446.		Design recommendation	Cl. 5.6.2 IS 16046 (Part2):2018+A1 : 2020
447.		Mechanical protection for cells and components of batteries	Cl. 5.6.3 IS 16046 (Part2):2018+A1 : 2020
448.		Quality plan	Cl. 5.7 IS 16046 (Part2):2018+A1 : 2020
449.		Battery safety components	Cl. 5.8 IS 16046 (Part2):2018+A1 : 2020
450.		Type test and sample size	Cl. 6 IS 16046 (Part2):2018+A1 : 2020
451.		Specific requirements and tests	Cl. 7 IS 16046 (Part2):2018+A1 : 2020
452.		Charging procedures for test purposes	Cl. 7.1 IS 16046 (Part2):2018+A1 : 2020
453.		First procedure	Cl. 7.1.1 IS 16046 (Part2):2018+A1 : 2020
454.		Second procedure	Cl. 7.1.2 IS 16046 (Part2):2018+A1 : 2020
455.		Intended use	Cl. 7.2 IS 16046 (Part2):2018+A1 : 2020
456.		Continuous charging at constant voltage (cells)	Cl. 7.2.1 IS 16046 (Part2):2018+A1 : 2020
457.		Case stress at high ambient temperature (battery)	Cl. 7.2.2 IS 16046 (Part2):2018+A1 : 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
458.		Reasonably foreseeable misuse	Cl. 7.3 IS 16046 (Part2):2018+A1: 2020
459.		External short-circuit (cell)	Cl. 7.3.1 IS 16046 (Part2):2018+A1 : 2020
460.		External short-circuit (battery)	Cl. 7.3.2 IS 16046 (Part2):2018+A1 : 2020
461.		Free fall	Cl. 7.3.3 IS 16046 (Part2):2018+A1 : 2020
462.		Thermal abuse (cells)	Cl. 7.3.4 IS 16046 (Part2):2018+A1 : 2020
463.		Crush (cells)	Cl. 7.3.5 IS 16046 (Part2):2018+A1 : 2020
464.		Over-charging of battery	Cl. 7.3.6 IS 16046 (Part2):2018+A1 : 2020
465.		Forced discharge (cells)	Cl. 7.3.7 IS 16046 (Part2):2018+A1 : 2020
466.		Mechanical tests (batteries)	Cl. 7.3.8 IS 16046 (Part2):2018+A1 : 2020
467.		Vibration	Cl. 7.3.8.1 IS 16046 (Part2):2018+A1 : 2020
468.		Mechanical shock	Cl. 7.3.8.2 IS 16046 (Part2):2018+A1 : 2020
469.		Information for safety	Cl. 8 IS 16046 (Part2):2018+A1 : 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
470.		General	Cl. 8.1 IS 16046 (Part2):2018+A1 : 2020
471.		Small cell and battery safety information	Cl. 8.2 IS 16046 (Part2):2018+A1 : 2020
472.		Marking	Cl. 9 IS 16046 (Part2):2018+A1 : 2020
473.		Cell marking	Cl. 9.1 IS 16046 (Part2):2018+A1 : 2020
474.		Battery marking	Cl. 9.2 IS 16046 (Part2): 2018+A1 : 2020
475.		Caution for ingestion of small cells and batteries	Cl. 9.3 IS 16046 (Part2): 2018+A1 : 2020
476.		Packaging and transport	Cl. 10 IS 16046 (Part2): 2018+A1: 2020
477.	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	General safety considerations	Cl. 5 IEC 62133-2: 2017
478.		General	Cl. 5.1 IEC 62133-2: 2017
479.		Insulation and wiring	Cl. 5.2 IEC 62133-2: 2017
480.		Venting	Cl. 5.3 IEC 62133-2: 2017
481.		Temperature, voltage and current management	Cl. 5.4 IEC 62133-2: 2017
482.		Terminal contacts	Cl. 5.5 IEC 62133-2: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
483.	Applications Part 2 Lithium Systems	Assembly of cells into batteries	Cl. 5.6 IEC 62133-2: 2017
484.		General	Cl. 5.6.1 IEC 62133-2: 2017
485.		Design recommendation	Cl. 5.6.2 IEC 62133-2: 2017
486.		Mechanical protection for cells and components of batteries	Cl. 5.6.3 IEC 62133-2: 2017
487.		Quality plan	Cl. 5.7 IEC 62133-2: 2017
488.		Battery safety components	Cl. 5.8 IEC 62133-2: 2017
489.		Type test and sample size	Cl. 6 IEC 62133-2: 2017
490.		Specific requirements and tests	Cl. 7 IEC 62133-2: 2017
491.		Charging procedures for test purposes	Cl. 7.1 IEC 62133-2: 2017
492.		First procedure	Cl. 7.1.1 IEC 62133-2: 2017
493.		Second procedure	Cl. 7.1.2 IEC 62133-2: 2017
494.		Intended use	Cl. 7.2 IEC 62133-2: 2017
495.		Continuous charging at constant voltage (cells)	Cl. 7.2.1 IEC 62133-2: 2017
496.		Case stress at high ambient temperature (battery)	Cl. 7.2.2 IEC 62133-2: 2017
497.		Reasonably foreseeable misuse	Cl. 7.3 IEC 62133-2: 2017
498.		External short-circuit (cell)	Cl. 7.3.1 IEC 62133-2: 2017
499.		External short-circuit (battery)	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
500.		Free fall	Cl. 7.3.2 IEC 62133-2: 2017
501.		Thermal abuse (cells)	
502.		Crush (cells)	Cl. 7.3.3 IEC 62133-2: 2017
503.		Over-charging of battery	Cl. 7.3.4 IEC 62133-2: 2017
504.		Forced discharge (cells)	Cl. 7.3.5 IEC 62133-2: 2017
505.		Mechanical tests (batteries)	
506.		Vibration	Cl. 7.3.6 IEC 62133-2: 2017
507.		Mechanical shock	Cl. 7.3.7 IEC 62133-2: 2017
508.		Information for safety	Cl. 7.3.8 IEC 62133-2: 2017
			Cl. 7.3.8.1 IEC 62133-2: 2017
			Cl. 7.3.8.2 IEC 62133-2: 2017
			Cl. 8 IEC 62133-2: 2017
509.		General	Cl. 8.1 IEC 62133-2: 2017
510.		Small cell and battery safety information	Cl. 8.2 IEC 62133-2: 2017
511.		Marking	Cl. 9 IEC 62133-2: 2017
512.		Cell marking	Cl. 9.1 IEC 62133-2: 2017
513.		Battery marking	Cl. 9.2 IEC 62133-2: 2017
514.		Caution for ingestion of small cells and batteries	Cl. 9.3 IEC 62133-2: 2017
515.		Other information	Cl. 9.4 IEC 62133-2: 2017
516.		Packaging and transport	Cl. 10 IEC 62133-2: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
517.	Multipurpose Dry Batteries	Designation of Cells and Batteries	Cl. 4 IS 8144: 2018
518.		Terminals	Cl. 6 IS 8144: 2018
519.		Marking	Cl. 8 IS 8144: 2018
520.		Tests	Cl. 9 IS 8144: 2018
521.		Type Tests	Cl. 9.2 IS 8144: 2018
522.		Lot Acceptance Tests	Cl. 9.3 IS 8144: 2018
523.		Initial Life Test	Cl. 9.4 IS 8144: 2018
524.		Delayed Life Test	Cl. 9.5 IS 8144: 2018
525.		Leakage Test	Cl. 9.6 IS 8144: 2018
526.		Delayed life test under dry heat conditions	Cl. 9.7 IS 8144: 2018



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
1.	Appliances for heating liquids	Classification	Cl.6 of IS 302-2-15:2009
2.	Appliances for heating liquids	Marking and instruction	Cl.7 of IS 302-2-15:2009
3.	Appliances for heating liquids	Protection against access to live parts	Cl.8 of IS 302-2-15:2009
4.	Appliances for heating liquids	Power input and current	Cl.10 of IS 302-2-15:2009
5.	Appliances for heating liquids	Heating	Cl.11 of IS 302-2-15:2009
6.	Appliances for heating liquids	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-15:2009
7.	Appliances for heating liquids	Transient over voltage	Cl.14 of IS 302-2-15:2009
8.	Appliances for heating liquids	Moisture resistance	Cl.15 of IS 302-2-15:2009
9.	Appliances for heating liquids	Leakage current and electric strength	Cl.16 of IS 302-2-15:2009
10.	Appliances for heating liquids	Overload protection of transformers associated circuits	Cl.17 of IS 302-2-15:2009
11.	Appliances for heating liquids	Abnormal operation	Cl.19 of IS 302-2-15:2009
12.	Appliances for heating liquids	Stability and mechanical hazards	Cl.20 of IS 302-2-15:2009
13.	Appliances for heating liquids	Mechanical strength	Cl.21 of IS 302-2-15:2009
14.	Appliances for heating liquids	Construction	Cl.22 of IS 302-2-15:2009
15.	Appliances for heating liquids	Internal wiring	Cl.23 of IS 302-2-15:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
16.	Appliances for heating liquids	Components	Cl.24 of IS 302-2-15:2009
17.	Appliances for heating liquids	Supply connection and external flexible cord	Cl.25 of IS 302-2-15:2009
18.	Appliances for heating liquids	Terminal for external conductors	Cl.26 of IS 302-2-15:2009
19.	Appliances for heating liquids	Provision for earthing	Cl.27 of IS 302-2-15:2009
20.	Appliances for heating liquids	Screws and connections	Cl.28 of IS 302-2-15:2009
21.	Appliances for heating liquids	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-15:2009
22.	Appliances for heating liquids	Resistance to heat and fire	Cl.30 of IS 302-2-15:2009
23.	Appliances for heating liquids	Resistance to rusting	Cl.31 of IS 302-2-15:2009
24.	Appliances for heating liquids	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-15:2009
25.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Rating	Cl.5 of IS 4250:1980
26.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Classification	Cl.6 of IS 4250:1980
27.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Marking	Cl.7 of IS 4250:1980

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
28.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Protection against access to live parts	Cl.8 of IS 4250:1980
29.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Starting	Cl.9 of IS 4250:1980
30.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Power input and current	Cl.10 of IS 4250:1980
31.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Heating	Cl.11 of IS 4250:1980
32.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Leakage current and electric strength at operating temperature	Cl.13 of IS 4250:1980
33.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Radio and television interference suppression	Cl.14 of IS 4250:1980
34.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Moisture resistance	Cl.15 of IS 4250:1980
35.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Insulation resistance and electric strength	Cl.16 of IS 4250:1980

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
36.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Overload protection	Cl.17 of IS 4250:1980
37.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Abnormal operation	Cl.19 of IS 4250:1980
38.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Stability and mechanical hazards	Cl.20 of IS 4250:1980
39.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Mechanical strength	Cl.21 of IS 4250:1980
40.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Construction	Cl.22 of IS 4250:1980
41.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Internal wiring	Cl.23 of IS 4250:1980
42.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Components	Cl.24 of IS 4250:1980



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
43.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Supply connection and external flexible cord	Cl.25 of IS 4250:1980
44.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Terminal for external conductors	Cl.26 of IS 4250:1980
45.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Provision for earthing	Cl.27 of IS 4250:1980
46.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Screws and connections	Cl.28 of IS 4250:1980
47.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Clearances, creepage distances and solid insulation	Cl.29 of IS 4250:1980
48.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Resistance to heat, fire and tracking	Cl.30 of IS 4250:1980
49.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Resistance to rusting	Cl.31 of IS 4250:1980
50.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Radiation	Cl.32 of IS 4250:1980

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
51.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Finish	Cl.33 of IS 4250:1980
52.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Operational tests	Cl.34 of IS 4250:1980
53.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Temperature withstand test for bowl	Cl.35 of IS 4250:1980
54.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Test for controls	Cl.36 of IS 4250:1980
55.	Domestic electric food-mixers (liquidizers and grinders) and centrifugal juicers	Strength of assembly	Cl.37 of IS 4250:1980
56.	Electric immersion water heater	Classification	Cl. 6 of IS 368:2014 & IS 302-2-201:2008
57.	Electric immersion water heater	Marking and instructions	Cl. 7 of IS 368:2014 & IS 302-2-201:2008
58.	Electric immersion water heater	Protection against access to live parts	Cl. 8 of IS 368:2014 & IS 302-2-201:2008
59.	Electric immersion water heater	Power input and current	Cl. 10 of IS 368:2014 & IS 302-2-201:2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
60.	Electric immersion water heater	Heating	Cl. 11 of IS 368:2014 & IS 302-2-201:2008
61.	Electric immersion water heater	Operation under overload conditions of appliances with heating elements	Cl. 12 of IS 368:2014
62.	Electric immersion water heater	Leakage current and electric strength at operating temperature	Cl.13 of IS 368:2014 & IS 302-2-201:2008
63.	Electric immersion water heater	Transient over voltage	Cl.14 of IS 368:2014 & IS 302-2-201:2008
64.	Electric immersion water heater	Moisture resistance	Cl. 15 of IS 368:2014 & IS 302-2-201:2008
65.	Electric immersion water heater	Leakage current & electric strength	Cl. 16 of IS 368:2014 & IS 302-2-201:2008
66.	Electric immersion water heater	Overload protection of transformers and associated circuits	Cl. 17 of IS 368:2014 & IS 302-2-201:2008
67.	Electric immersion water heater	Endurance	Cl. 18 of IS 368:2014
68.	Electric immersion water heater	Abnormal operation	Cl. 19 of IS 368:2014 & IS 302-2-201:2008
69.	Electric immersion water heater	Stability and mechanical hazards	Cl. 20 of IS 368:2014 & IS 302-2-201:2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
70.	Electric immersion water heater	Mechanical strength	Cl. 21 of IS 368:2014 & IS 302-2-201:2008
71.	Electric immersion water heater	Construction	Cl. 22 of IS 368:2014 & IS 302-2-201:2008
72.	Electric immersion water heater	Internal wiring	Cl. 23 of IS 368:2014 & IS 302-2-201:2008
73.	Electric immersion water heater	Components	Cl. 24 of IS 368:2014 & IS 302-2-201:2008
74.	Electric immersion water heater	Supply connection and external flexible cords	Cl. 25 of IS 368:2014 & IS 302-2-201:2008
75.	Electric immersion water heater	Terminals for external conductors	Cl. 26 of IS 368:2014 & IS 302-2-201:2008
76.	Electric immersion water heater	Provision for earthing	Cl. 27 of IS 368:2014 & IS 302-2-201:2008
77.	Electric immersion water heater	Screw and connections	Cl. 28 of IS 368:2014 & IS 302-2-201:2008
78.	Electric immersion water heater	Clearances, creepage distances and solid insulation	Cl. 29 of IS 368:2014 & IS 302-2-201:2008
79.	Electric immersion water heater	Resistance to heat, fire and tracking	Cl. 30 of IS 368:2014 & IS 302-2-201:2008
80.	Electric immersion water heater	Resistance to rusting	Cl. 31 of IS 368:2014 & IS 302-2-201:2008
81.	Electric immersion water heater	Radiation, Toxicity and similar hazards	Cl. 32 of IS 368:2014 & IS 302-2-201:2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
82.	Electric instantaneous water heater	Classification	Cl.6 of IS 302-2-35:2017
83.	Electric instantaneous water heater	Marking and instructions	Cl.7 of IS 302-2-35:2017
84.	Electric instantaneous water heater	Protection against access to live parts	Cl.8 of IS 302-2-35:2017
85.	Electric instantaneous water heater	Power input and current	Cl.10 of IS 302-2-35:2017
86.	Electric instantaneous water heater	Heating	Cl.11 of IS 302-2-35:2017
87.	Electric instantaneous water heater	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-35:2017
88.	Electric instantaneous water heater	Transient over voltage	Cl.14 of IS 302-2-35:2017
89.	Electric instantaneous water heater	Moisture resistance	Cl.15 of IS 302-2-35:2017
90.	Electric instantaneous water heater	Leakage current & electric strength	Cl.16 of IS 302-2-35:2017
91.	Electric instantaneous water heater	Overload protection of transformers and associated circuits	Cl.17 of IS 302-2-35:2017
92.	Electric instantaneous water heater	Abnormal operation	Cl.19 of IS 302-2-35:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
93.	Electric instantaneous water heater	Stability and mechanical hazards	Cl.20 of IS 302-2-35:2017
94.	Electric instantaneous water heater	Mechanical strength	Cl.21 of IS 302-2-35:2017
95.	Electric instantaneous water heater	Construction	Cl.22 of IS 302-2-35:2017
96.	Electric instantaneous water heater	Internal wiring	Cl.23 of IS 302-2-35:2017
97.	Electric instantaneous water heater	Components	Cl.24 of IS 302-2-35:2017
98.	Electric instantaneous water heater	Supply connection and external flexible cords	Cl.25 of IS 302-2-35:2017
99.	Electric instantaneous water heater	Terminals for external conductors	Cl.26 of IS 302-2-35:2017
100.	Electric instantaneous water heater	Provision for earthing	Cl.27 of IS 302-2-35:2017
101.	Electric instantaneous water heater	Screw and connections	Cl.28 of IS 302-2-35:2017
102.	Electric instantaneous water heater	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-35:2017
103.	Electric instantaneous water heater	Resistance to heat, fire and tracking	Cl.30 of IS 302-2-35:2017
104.	Electric instantaneous water heater	Resistance to rusting	Cl.31 of IS 302-2-35:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
105.	Electric instantaneous water heater	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-35:2017
106.	Electric instantaneous water heater	Finish	Cl.10 of IS 8978:1992
107.	Electric instantaneous water heater	Operation of flow switch	Cl.11 of IS 8978:1992
108.	Electric instantaneous water heater	Endurance	Cl.12 of IS 8978:1992
109.	Electric iron	Classification and rating	Cl.6 of IS 302-2-3:2007
110.	Electric iron	Marking and instructions	Cl.7 of IS 302-2-3:2007
111.	Electric iron	Protection against access to live parts	Cl.8 of IS 302-2-3:2007
112.	Electric iron	Power input and current	Cl.10 of IS 302-2-3:2007
113.	Electric iron	Heating	Cl.11 of IS 302-2-3:2007
114.	Electric iron	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-3:2007
115.	Electric iron	Transient over voltage	Cl.14 of IS 302-2-3:2007
116.	Electric iron	Moisture resistance	Cl.15 of IS 302-2-3:2007
117.	Electric Iron	Leakage current and electric strength	Cl.16 of IS 302-2-3:2007
118.	Electric Iron	Abnormal operation	Cl.19 of IS 302-2-3:2007
119.	Electric Iron	Stability and mechanical hazards	Cl.20 of IS 302-2-3:2007
120.	Electric Iron	Mechanical strength	Cl.21 of IS 302-2-3:2007

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
121.	Electric Iron	Construction	Cl.22 of IS 302-2-3:2007
122.	Electric Iron	Internal wiring	Cl.23 of IS 302-2-3:2007
123.	Electric Iron	Components	Cl.24 of IS 302-2-3:2007
124.	Electric Iron	Supply connection and external flexible cords	Cl.25 of IS 302-2-3:2007
125.	Electric Iron	Terminals for external conductors	Cl.26 of IS 302-2-3:2007
126.	Electric Iron	Provision for earthing	Cl.27 of IS 302-2-3:2007
127.	Electric Iron	Screw and connections	Cl.28 of IS 302-2-3:2007
128.	Electric Iron	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-3:2007
129.	Electric Iron	Resistance to heat, fire and tracking	Cl.30 of IS 302-2-3:2007
130.	Electric Iron	Resistance to rusting	Cl.31 of IS 302-2-3:2007
131.	Electric Iron	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-3:2007
132.	Electric Iron	Measurement of heating –up time	Cl. 10 of IS 366:1991
133.	Electric Iron	Measurement of soleplate temperature	Cl. 11 of IS 366:1991
134.	Electric Iron	Measurement of temperature distribution	Cl. 12 of IS 366:1991
135.	Electric Iron	Measurement of initial overswing temperature and heating-up excess temperature	Cl. 13 of IS 366:1991

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
136.	Electric Iron	Measurement of cyclic fluctuation of temperature	Cl. 14 of IS 366:1991
137.	Electric Iron	Measurement of thermostatic stability	Cl. 16 of IS 366:1991
138.	Electric Iron	Finish	Cl. 17 of IS 366:1991
139.	Induction hobs	Classification	Cl.6 of IS 302-2-6:2009
140.	Induction hobs	Marking and instruction	Cl.7 of IS 302-2-6:2009
141.	Induction hobs	Protection against access to live parts	Cl.8 of IS 302-2-6:2009
142.	Induction hobs	Power input and current	Cl.10 of IS 302-2-6:2009
143.	Induction hobs	Heating	Cl.11 of IS 302-2-6:2009
144.	Induction hobs	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-6:2009
145.	Induction hobs	Transient over voltage	Cl.14 of IS 302-2-6:2009
146.	Induction hobs	Moisture resistance	Cl.15 of IS 302-2-6:2009
147.	Induction hobs	Leakage current and electric strength	Cl.16 of IS 302-2-6:2009
148.	Induction hobs	Overload protection of transformers associated circuits	Cl.17 of IS 302-2-6:2009
149.	Induction hobs	Abnormal operation	Cl.19 of IS 302-2-6:2009
150.	Induction hobs	Stability and mechanical hazards	Cl.20 of IS 302-2-6:2009
151.	Induction hobs	Mechanical strength	Cl.21 of IS 302-2-6:2009
152.	Induction hobs	Construction	Cl.22 of IS 302-2-6:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
153.	Induction hobs	Internal wiring	Cl.23 of IS 302-2-6:2009
154.	Induction hobs	Components	Cl.24 of IS 302-2-6:2009
155.	Induction hobs	Supply connection and external flexible cord	Cl.25 of IS 302-2-6:2009
156.	Induction hobs	Terminal for external conductors	Cl.26 of IS 302-2-6:2009
157.	Induction hobs	Provision for earthing	Cl.27 of IS 302-2-6:2009
158.	Induction hobs	Screws and connections	Cl.28 of IS 302-2-6:2009
159.	Induction hobs	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-6:2009
160.	Induction hobs	Resistance to heat and fire	Cl.30 of IS 302-2-6:2009
161.	Induction hobs	Resistance to rusting	Cl.31 of IS 302-2-6:2009
162.	Induction hobs	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-6:2009
163.	Room heater	Classification	Cl.6 of IS 302-2-30:2007
164.	Room heater	Marking and instruction	Cl.7 of IS 302-2-30:2007
165.	Room heater	Protection against access to live parts	Cl.8 of IS 302-2-30:2007
166.	Room heater	Starting of motor-operated appliances	Cl.9 of IS 302-2-30:2007
167.	Room heater	Power input and current	Cl.10 of IS 302-2-30:2007
168.	Room heater	Heating	Cl.11 of IS 302-2-30:2007
169.	Room heater	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-30:2007

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
170.	Room heater	Transient over voltage	Cl.14 of IS 302-2-30:2007
171.	Room heater	Moisture resistance	Cl.15 of IS 302-2-30:2007
172.	Room heater	Leakage current and electric strength	Cl.16 of IS 302-2-30:2007
173.	Room heater	Abnormal operation	Cl.19 of IS 302-2-30:2007
174.	Room heater	Stability and mechanical hazards	Cl.20 of IS 302-2-30:2007
175.	Room heater	Mechanical strength	Cl.21 of IS 302-2-30:2007
176.	Room heater	Construction	Cl.22 of IS 302-2-30:2007
177.	Room heater	Internal wiring	Cl.23 of IS 302-2-30:2007
178.	Room heater	Components	Cl.24 of IS 302-2-30:2007
179.	Room heater	Supply connection and external flexible cord	Cl.25 of IS 302-2-30:2007
180.	Room heater	Terminal for external conductors	Cl.26 of IS 302-2-30:2007
181.	Room heater	Provision for earthing	Cl.27 of IS 302-2-30:2007
182.	Room heater	Screws and connections	Cl.28 of IS 302-2-30:2007
183.	Room heater	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-30:2007
184.	Room heater	Resistance to heat and fire	Cl.30 of IS 302-2-30:2007
185.	Room heater	Resistance to rusting	Cl.31 of IS 302-2-30:2007
186.	Room heater	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-30:2007
187.	Stationary storage type electric water heaters	Classification	Cl.6 of IS 302-2-21:2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
188.	Stationary storage type electric water heaters	Marking and instructions	Cl.7 of IS 302-2-21:2018
189.	Stationary storage type electric water heaters	Protection against access to live parts	Cl.8 of IS 302-2-21:2028
190.	Stationary storage type electric water heaters	Power input and current	Cl.10 of IS 302-2-21:2018
191.	Stationary storage type electric water heaters	Heating	Cl.11 of IS 302-2-21:2018
192.	Stationary storage type electric water heaters	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-21:2018
193.	Stationary storage type electric water heaters	Transient over voltage	Cl.14 of IS 302-2-21:2018
194.	Stationary storage type electric water heaters	Moisture resistance	Cl.15 of IS 302-2-21:2018
195.	Stationary storage type electric water heaters	Leakage current and electric strength	Cl.16 of IS 302-2-21:2018
196.	Stationary storage type electric water heaters	Abnormal operation	Cl.19 of IS 302-2-21:2018
197.	Stationary storage type electric water heaters	Stability and mechanical hazards	Cl.20 of IS 302-2-21:2018
198.	Stationary storage type electric water heaters	Mechanical strength	Cl.21 of IS 302-2-21:2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
199.	Stationary storage type electric water heaters	Construction	Cl.22 of IS 302-2-21:2018
200.	Stationary storage type electric water heaters	Internal wiring	Cl.23 of IS 302-2-21:2018
201.	Stationary storage type electric water heaters	Components	Cl.24 of IS 302-2-21:2018
202.	Stationary storage type electric water heaters	Supply connection and external flexible cords	Cl.25 of IS 302-2-21:2018
203.	Stationary storage type electric water heaters	Terminals for external conductors	Cl.26 of IS 302-2-21:2018
204.	Stationary storage type electric water heaters	Provision for earthing	Cl.27 of IS 302-2-21:2018
205.	Stationary storage type electric water heaters	Screw and connections	Cl.28 of IS 302-2-21:2018
206.	Stationary storage type electric water heaters	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-21:2018
207.	Stationary storage type electric water heaters	Resistance to heat, fire and tracking	Cl.30 of IS 302-2-21:2018
208.	Stationary storage type electric water heaters	Resistance to rusting	Cl.31 of IS 302-2-21:2018
209.	Stationary storage type electric water heaters	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-21:2018
210.	Stationary storage type electric water heaters	Verification of the rated capacity	Cl. 14 of IS 2082:2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
211.	Stationary storage type electric water heaters	Standing loss per 24 hours	Cl. 15 of IS 2082:2018
212.	Stationary storage type electric water heaters	Hot water output	Cl. 16 of IS 2082:2018
213.	Stationary storage type electric water heaters	Reheating time	Cl. 17 of IS 2082:2018
214.	Stationary storage type electric water heaters	Mixing factor	Cl. 18 of IS 2082:2018
215.	Stationary storage type electric water heaters	Deviation from dial calibration	Cl. 19 of IS 2082:2018
216.	Stationary storage type electric water heaters	Cyclic temperature variation	Cl. 20 of IS 2082:2018
217.	Toasters, Grills, Roasters and similar appliances	Classification	Cl.6 of IS 302-2-9:2009
218.	Toasters, Grills, Roasters and similar appliances	Marking and instruction	Cl.7 of IS 302-2-9:2009
219.	Toasters, Grills, Roasters and similar appliances	Protection against access to live parts	Cl.8 of IS 302-2-9:2009
220.	Toasters, Grills, Roasters and similar appliances	Power input and current	Cl.10 of IS 302-2-9:2009
221.	Toasters, Grills, Roasters and similar appliances	Heating	Cl.11 of IS 302-2-9:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
222.	Toasters, Grills, Roasters and similar appliances	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-9:2009
223.	Toasters, Grills, Roasters and similar appliances	Transient over voltage	Cl.14 of IS 302-2-9:2009
224.	Toasters, Grills, Roasters and similar appliances	Moisture resistance	Cl.15 of IS 302-2-9:2009
225.	Toasters, Grills, Roasters and similar appliances	Leakage current and electric strength	Cl.16 of IS 302-2-9:2009
226.	Toasters, Grills, Roasters and similar appliances	Overload protection of transformers associated circuits	Cl.17 of IS 302-2-9:2009
227.	Toasters, Grills, Roasters and similar appliances	Abnormal operation	Cl.19 of IS 302-2-9:2009
228.	Toasters, Grills, Roasters and similar appliances	Stability and mechanical hazards	Cl.20 of IS 302-2-9:2009
229.	Toasters, Grills, Roasters and similar appliances	Mechanical strength	Cl.21 of IS 302-2-9:2009
230.	Toasters, Grills, Roasters and similar appliances	Construction	Cl.22 of IS 302-2-9:2009
231.	Toasters, Grills, Roasters and similar appliances	Internal wiring	Cl.23 of IS 302-2-9:2009
232.	Toasters, Grills, Roasters and similar appliances	Components	Cl.24 of IS 302-2-9:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
233.	Toasters, Grills, Roasters and similar appliances	Supply connection and external flexible cord	Cl.25 of IS 302-2-9:2009
234.	Toasters, Grills, Roasters and similar appliances	Terminal for external conductors	Cl.26 of IS 302-2-9:2009
235.	Toasters, Grills, Roasters and similar appliances	Provision for earthing	Cl.27 of IS 302-2-9:2009
236.	Toasters, Grills, Roasters and similar appliances	Screws and connections	Cl.28 of IS 302-2-9:2009
237.	Toasters, Grills, Roasters and similar appliances	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-9:2009
238.	Toasters, Grills, Roasters and similar appliances	Resistance to heat and fire	Cl.30 of IS 302-2-9:2009
239.	Toasters, Grills, Roasters and similar appliances	Resistance to rusting	Cl.31 of IS 302-2-9:2009
240.	Toasters, Grills, Roasters and similar appliances	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-9:2009



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaries and accessories		
1.	D.C. or A.C. supplied electronic control gear for LED modules	General requirements	Cl. No.: 4 IS 15885 (Part 2/Sec 13): 2012
2.	D.C. or A.C. supplied electronic control gear for LED modules	General notes on tests	Cl. No.: 5 IS 15885 (Part 2/Sec 13): 2012
3.	D.C. or A.C. supplied electronic control gear for LED modules	Classification	Cl. No.: 6 IS 15885 (Part 2/Sec 13): 2012
4.	D.C. or A.C. supplied electronic control gear for LED modules	Marking	Cl. No.: 7 IS 15885 (Part 2/Sec 13): 2012
5.	D.C. or A.C. supplied electronic control gear for LED modules	Protection against accidental contact with live parts	Cl. No.: 8 IS 15885 (Part 2/Sec 13): 2012
6.	D.C. or A.C. supplied electronic control gear for LED modules	Terminals	Cl. No.: 9 IS 15885 (Part 2/Sec 13): 2012
7.	D.C. or A.C. supplied electronic control gear for LED modules	Provisions for protective earthing	Cl. No.: 10 IS 15885 (Part 2/Sec 13): 2012
8.	D.C. or A.C. supplied electronic control gear for LED modules	Moisture resistance and insulation	Cl. No.: 11 IS 15885 (Part 2/Sec 13): 2012
9.	D.C. or A.C. supplied electronic control gear for LED modules	Electric strength	Cl. No.: 12 IS 15885 (Part 2/Sec 13): 2012
10.	D.C. or A.C. supplied electronic control gear for LED modules	Thermal endurance test for windings of ballasts	Cl. No.: 13 IS 15885 (Part 2/Sec 13): 2012
11.	D.C. or A.C. supplied electronic control gear for LED modules	Fault conditions	Cl. No.: 14 IS 15885 (Part 2/Sec 13): 2012
12.	D.C. or A.C. supplied electronic	Transformer heating	Cl. No.: 15 IS 15885 (Part 2/Sec 13): 2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	control gear for LED modules		
13.	D.C. or A.C. supplied electronic control gear for LED modules	Construction	Cl. No.: 16 IS 15885 (Part 2/Sec 13): 2012
14.	D.C. or A.C. supplied electronic control gear for LED modules	Creepage distances and clearances	Cl. No.: 17 IS 15885 (Part 2/Sec 13): 2012
15.	D.C. or A.C. supplied electronic control gear for LED modules	Screws, current-carrying parts and connections	Cl. No.: 18 IS 15885 (Part 2/Sec 13): 2012
16.	D.C. or A.C. supplied electronic control gear for LED modules	Resistance to heat, fire and tracking	Cl. No.: 19 IS 15885 (Part 2/Sec 13): 2012
17.	D.C. or A.C. supplied electronic control gear for LED modules	Resistance to corrosion	Cl. No.: 20 IS 15885 (Part 2/Sec 13): 2012
18.	D.C. Or A.C. supplied electronic control gear for LED modules —performance requirements	General notes on tests	Cl. No.: 4 IS 16104: 2012
19.	D.C. Or A.C. supplied electronic control gear for LED modules performance requirements gear for LED modules — performance requirements	Classification	Cl. No.: 5 IS 16104: 2012
20.	D.C. Or A.C. supplied electronic control gear for LED modules —Performance requirements	Marking	Cl. No.: 6 IS 16104: 2012

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
21.	D.C. Or A.C. supplied electronic control gear for LED modules —Performance requirements	Output voltage and current	Cl. No.: 7 IS 16104: 2012
22.	D.C. Or A.C. supplied electronic control gear for LED modules —performance requirements	Total circuit power	Cl. No.: 8 IS 16104: 2012
23.	D.C. Or A.C. supplied electronic control gear for LED modules —performance requirements	Circuit power factor	Cl. No.: 9 IS 16104: 2012
24.	D.C. Or A.C. supplied electronic control gear for LED modules —performance requirements	Supply current	Cl. No.: 10 IS 16104: 2012
25.	D.C. Or A.C. supplied electronic control gear for LED modules —performance requirements	Impedance at audio frequencies	Cl. No.: 11 IS 16104: 2012
26.	D.C. Or A.C. supplied electronic control gear for LED modules —performance requirements	Operational tests for abnormal conditions	Cl. No.: 12 IS 16104: 2012
27.	D.C. Or A.C. supplied electronic control gear for LED modules —Performance requirements gear for LED modules — Performance requirements	Endurance	Cl. No.: 13 IS 16104: 2012
28.	Emergency lighting	General test requirements	Cl. No.: 4

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			IS 10322 (Part-5/Section-8): 2013
29.	Emergency lighting	Classification of luminaires	Cl. No.: 5 IS 10322 (Part-5/Section-8): 2013
30.	Emergency lighting	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-8): 2013
31.	Emergency lighting	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-8): 2013
32.	Emergency lighting	Creepage distances and Clearances	Cl. No.: 8 IS 10322 (Part-5/Section-8): 2013
33.	Emergency lighting	Provision for earthing	Cl. No.: 9 IS 10322 (Part-5/Section-8): 2013
34.	Emergency lighting	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-8): 2013
35.	Emergency lighting	External and Internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-8): 2013
36.	Emergency lighting	Protection against electric shock	Cl. No.: 12 IS 10322 (Part-5/Section-8): 2013
37.	Emergency lighting	Endurance test and thermal test	Cl. No.: 13 IS 10322 (Part-5/Section-8): 2013
38.	Emergency lighting	Resistance to dust and moisture	Cl. No.: 14 IS 10322 (Part-5/Section-8): 2013
39.	Emergency lighting	Insulation resistance and electric strength	Cl. No.: 15 IS 10322 (Part-5/Section-8): 2013



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
40.	Emergency lighting	Resistance to heat, fire and tracking	Cl. No.: 16 IS 10322 (Part-5/Section-8): 2013
41.	Emergency lighting	Functional safety	Cl. No.: 17 IS 10322 (Part-5/Section-8): 2013
42.	Emergency lighting	Changeover operation	Cl. No.: 18 IS 10322 (Part-5/Section-8): 2013
43.	Emergency lighting	High temperature operation	Cl. No.: 19 IS 10322 (Part-5/Section-8): 2013
44.	Emergency lighting	Battery chargers for self-contained emergency luminaires	Cl. No.: 20 IS 10322 (Part-5/Section-8): 2013
45.	Emergency lighting	Test devices for emergency operation	Cl. No.: 21 IS 10322 (Part-5/Section-8): 2013
46.	Emergency Lighting	Rest mode and inhibition mode facilities	Cl. No.: 22 IS 10322 (Part-5/Section-8): 2013
47.	Fixed general purpose luminaires	General test requirements	Cl. No.: 4 IS 10322 (Part-5/Section-1): 2012
48.	Fixed general purpose luminaires	Classification of luminaire	Cl. No.: 5 IS 10322 (Part-5/Section-1): 2012
49.	Fixed general purpose luminaires	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-1): 2012
50.	Fixed general purpose luminaires	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-1): 2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
51.	Fixed general purpose luminaires	Creepage distances and clearances	Cl. No.: 8 IS 10322 (Part-5/Section-1): 2012
52.	Fixed general purpose luminaires	Provision for earthing	Cl. No.: 9 IS 10322 (Part-5/Section-1): 2012
53.	Fixed general purpose luminaires	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-1): 2012
54.	Fixed general purpose luminaires	External and internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-1): 2012
55.	Fixed General Purpose Luminaires	Protection against electric shock	Cl. No.: 12 IS 10322 (Part-5/Section-1): 2012
56.	Fixed General Purpose Luminaires	Endurance tests and thermal tests	Cl. No.: 13 IS 10322 (Part-5/Section-1): 2012
57.	Fixed General Purpose Luminaires	Resistance to dust and Moisture	Cl. No.: 14 IS 10322 (Part-5/Section-1): 2012
58.	Fixed General Purpose Luminaires	Insulation resistance and electric strength	Cl. No.: 15 IS 10322 (Part-5/Section-1): 2012
59.	Fixed General Purpose Luminaires	Resistance to heat, fire and tracking	Cl. No.: 16 IS 10322 (Part-5/Section-1): 2012
60.	Flood Light	General test requirements	Cl. No.: 4 IS 10322 (Part-5/Section-5): 2013
61.	Flood light	Classification of luminaires	Cl. No.: 5 IS 10322 (Part-5/Section-5): 2013
62.	Flood light	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-5): 2013

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
63.	Flood light	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-5): 2013
64.	Flood light	Creepage distance and clearances	Cl. No.: 8 IS 10322 (Part-5/Section-5): 2013
65.	Flood light	Provision for earthing	Cl. No.: 9 IS 10322 (Part-5/Section-5): 2013
66.	Flood light	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-5): 2013
67.	Flood light	External and Internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-5): 2013
68.	Flood light	Protection against electric shock	Cl. No.: 12 IS 10322 (Part-5/Section-5): 2013
69.	Flood light	Endurance tests and thermal tests	Cl. No.: 13 IS 10322 (Part-5/Section-5): 2013
70.	Flood light	Resistance to dust and moisture	Cl. No.: 14 IS 10322 (Part-5/Section-5): 2013
71.	Flood light	Insulation resistance and electric strength	Cl. No.: 15 IS 10322 (Part-5/Section-5): 2013
72.	Flood light	Resistance to heat, fire and tracking	Cl. No.: 16 IS 10322 (Part-5/Section-5): 2013
73.	Hand lamps	General test requirements	Cl. No.: 4 IS 10322 (Part-5/Section-6): 2013
74.	Hand lamps	Classification of luminaires	Cl. No.: 5 IS 10322 (Part-5/Section-6): 2013
75.	Hand lamps	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-6): 2013
76.	Hand lamps	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-6): 2013

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
77.	Hand lamps	Creepage distance and clearance	Cl. No.: 8 IS 10322 (Part-5/Section-6): 2013
78.	Hand lamps	Provision for earthing	Cl. No.: 9 IS 10322 (Part-5/Section-6): 2013
79.	Hand lamps	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-6): 2013
80.	Hand lamps	External and Internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-6): 2013
81.	Hand lamps	Protection Against Electric Shock	Cl. No.: 12 IS 10322 (Part-5/Section-6): 2013
82.	Hand lamps	Endurance Tests And Thermal Tests	Cl. No.: 13 IS 10322 (Part-5/Section-6): 2013
83.	Hand lamps	Resistance To Dust And Moisture	Cl. No.: 14 IS 10322 (Part-5/Section-6): 2013
84.	Hand lamps	Insulation resistance and Electric Strength	Cl. No.: 15 IS 10322 (Part-5/Section-6): 2013
85.	Hand lamps	Resistance To Heat, Fire And Tracking	Cl. No.: 16 IS 10322 (Part-5/Section-6): 2013
86.	LED modules for General lighting	General Requirements	Cl. No.: 4 IS 16103 (Part 1): 2012
87.	LED modules for General lighting	General Test Requirements	Cl. No.: 5 IS 16103 (Part 1): 2012
88.	LED modules for General lighting	Classification	Cl. No.: 6 IS 16103 (Part 1): 2012
89.	LED modules for General lighting	Marking	Cl. No.: 7 IS 16103 (Part 1): 2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
90.	LED modules for General lighting	Terminals	Cl. No.: 8 IS 16103 (Part 1): 2012
91.	LED modules for General lighting	Provisions for Protective Earthing	Cl. No.: 9 IS 16103 (Part 1): 2012
92.	LED modules for General lighting	Protection Against Accidental Contact with Live Parts	Cl. No.: 10 IS 16103 (Part 1): 2012
93.	Led Modules For General Lighting	Moisture resistance and insulation	Cl. No.: 11 IS 16103 (Part 1): 2012
94.	Led Modules For General Lighting	Electric strength	Cl. No.: 12 IS 16103 (Part 1): 2012
95.	Led Modules For General Lighting	Fault conditions	Cl. No.: 13 IS 16103 (Part 1): 2012
96.	Led Modules For General Lighting	Conformity testing during manufacture	Cl. No.: 14 IS 16103 (Part 1): 2012
97.	Led Modules For General Lighting	Construction	Cl. No.: 15 IS 16103 (Part 1): 2012
98.	Led Modules For General Lighting	Creepage distances and clearances	Cl. No.: 16 IS 16103 (Part 1): 2012
99.	Led Modules For General Lighting	Screws, current-carrying parts and connections	Cl. No.: 17 IS 16103 (Part 1): 2012
100.	Led Modules For General Lighting	Resistance to heat, fire and tracking	Cl. No.: 18 IS 16103 (Part 1): 2012
101.	Led Modules For General Lighting	Resistance to corrosion	Cl. No.: 19 IS 16103 (Part 1): 2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
102.	Led Modules For General Lighting	Information to luminaire design	Cl. No.: 20 IS 16103 (Part 1): 2012
103.	Led Modules For General Lighting	Heat management	Cl. No.: 21 IS 16103 (Part 1): 2012
104.	Lighting Chains	General test requirements	Cl. No.: 4 IS 10322 (Part-5/Section-7): 2017
105.	Lighting Chains	Classification of luminaires	Cl. No.: 5 IS 10322 (Part-5/Section-7): 2017
106.	Lighting Chains	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-7): 2017
107.	Lighting Chains	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-7): 2017
108.	Lighting Chains	Creepage distances and clearances	Cl. No.: 8 IS 10322 (Part-5/Section-7): 2017
109.	Lighting Chains	Provisions for earthing	Cl. No.: 9 IS 10322 (Part-5/Section-7): 2017
110.	Lighting Chains	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-7): 2017
111.	Lighting chains	External and internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-7): 2017
112.	Lighting chains	Protection Against Electric Shock	Cl. No.: 12 IS 10322 (Part-5/Section-7): 2017
113.	Lighting chains	Endurance tests and thermal tests	Cl. No.: 13 IS 10322 (Part-5/Section-7): 2017
114.	Lighting chains	Resistance to dust, solid objects and moisture	Cl. No.: 14 IS 10322 (Part-5/Section-7): 2017

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
115.	Lighting chains	Insulation resistance and electric strength	Cl. No.: 15 IS 10322 (Part-5/Section-7): 2017
116.	Lighting chains	Heat, Fire and tracking	Cl. No.: 16 IS 10322 (Part-5/Section-7): 2017
117.	Luminaires for road and street lighting	General Test Requirements	Cl. No.: 4 IS 10322 (Part-5/Section-3): 2012
118.	Luminaires for road and street lighting	Classification of Luminaires	Cl. No.: 5 IS 10322 (Part-5/Section-3): 2012
119.	Luminaires for road and street lighting	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-3): 2012
120.	Luminaires for road and street lighting	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-3): 2012
121.	Luminaires for road and street lighting	Creepage distances and clearances	Cl. No.: 8 IS 10322 (Part-5/Section-3): 2012
122.	Luminaires for road and street lighting	Provision for protective earthing	Cl. No.: 9 IS 10322 (Part-5/Section-3): 2012
123.	Luminaires for road and street lighting	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-3): 2012
124.	Luminaires for road and street lighting	External and Internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-3): 2012
125.	Luminaires for road and street lighting	Protection against electric shock	Cl. No.: 12 IS 10322 (Part-5/Section-3): 2012
126.	Luminaires for road and street lighting	Endurance tests and thermal tests	Cl. No.: 13 IS 10322 (Part-5/Section-3): 2012

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
127.	Luminaires for road and street lighting	Resistance To Dust And Moisture	Cl. No.: 14 IS 10322 (Part-5/Section-3): 2012
128.	Luminaires for road and street lighting	Insulation Resistance And Electric Strength	Cl. No.: 15 IS 10322 (Part-5/Section-3): 2012
129.	Luminaires for road and street lighting	Resistance To Heat, Fire And Tracking	Cl. No.: 16 IS 10322 (Part-5/Section-3): 2012
130.	Luminaires Part 1 General Requirements And Test	Construction	Cl. No.: 4 IS 10322 (Part 1): 2014
131.	Luminaires Part 1 General Requirements And Test	External and Internal Wiring	Cl. No.: 5 IS 10322 (Part 1): 2014
132.	Luminaires Part 1 General Requirements And Test	Provision for Earthing	Cl. No.: 7 IS 10322 (Part 1): 2014
133.	Luminaires Part 1 General Requirements And Test	Protection Against Electric Shock	Cl. No.: 8 IS 10322 (Part 1): 2014
134.	Luminaires Part 1 General Requirements And Test	Resistance To Dust, Solid Objects And Moisture	Cl. No.: 9 IS 10322 (Part 1): 2014
135.	Luminaires Part 1 General Requirements And Test	Insulation Resistance And Electric Strength	Cl. No.: 10 IS 10322 (Part 1): 2014
136.	Luminaires Part 1 General Requirements And Test	Creepage Distances and Clearances	Cl. No.: 11 IS 10322 (Part 1): 2014
137.	Luminaires Part 1 General Requirements And Test	Endurance Tests and Thermal Tests	Cl. No.: 12 IS 10322 (Part 1): 2014
138.	Luminaires Part 1 General Requirements And Test	Resistance To Heat, fire and Tracking	Cl. No.: 13 IS 10322 (Part 1): 2014
139.	Luminaires Part 1 General	Screw Terminals	Cl. No.: 14

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Requirements And Test		IS 10322 (Part 1): 2014
140.	Luminaires Part 1 General Requirements And Test	Screwless Terminals And Electrical Connections	Cl. No.: 15 IS 10322 (Part 1): 2014
141.	Recessed Luminaires	General Test Requirements	Cl. No.: 4 IS 10322 (Part-5/Section-2): 2012
142.	Recessed Luminaires	Classification of Luminaires	Cl. No.: 5 IS 10322 (Part-5/Section-2): 2012
143.	Recessed Luminaires	Marking	Cl. No.: 6 IS 10322 (Part-5/Section-2): 2012
144.	Recessed Luminaires	Construction	Cl. No.: 7 IS 10322 (Part-5/Section-2): 2012
145.	Recessed Luminaires	Creepage distances and clearances	Cl. No.: 8 IS 10322 (Part-5/Section-2): 2012
146.	Recessed Luminaires	Provision for earthing	Cl. No.: 9 IS 10322 (Part-5/Section-2): 2012
147.	Recessed Luminaires	Terminals	Cl. No.: 10 IS 10322 (Part-5/Section-2): 2012
148.	Recessed Luminaires	External and Internal wiring	Cl. No.: 11 IS 10322 (Part-5/Section-2): 2012
149.	Recessed Luminaires	Protection against electric shock	Cl. No.: 12 IS 10322 (Part-5/Section-2): 2012
150.	Recessed Luminaires	Endurance tests and Thermal tests	Cl. No.: 13 IS 10322 (Part-5/Section-2): 2012
151.	Recessed Luminaires	Resistance To dust and moisture	Cl. No.: 14 IS 10322 (Part-5/Section-2): 2012
152.	Recessed Luminaires	Insulation resistance and electric strength	Cl. No.: 15 IS 10322 (Part-5/Section-2): 2012

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153.	Recessed Luminaires	Resistance to heat, fire and tracking	Cl. No.: 16 IS 10322 (Part-5/Section-2): 2012
154.	Rope Lights	General test requirements	Cl. No.: 21.4 IS 10322 (Part-5/Section-9): 2017
155.	Rope Lights	Classification of luminaires	Cl. No.: 21.5 IS 10322 (Part-5/Section-9): 2017
156.	Rope Lights	Marking	Cl. No.: 21.6 IS 10322 (Part-5/Section-9): 2017
157.	Rope Lights	Construction	Cl. No.: 21.7 IS 10322 (Part-5/Section-9): 2017
158.	Rope Lights	Creepage distances and clearances	Cl. No.: 21.8 IS 10322 (Part-5/Section-9): 2017
159.	Rope Lights	Provisions for earthing	Cl. No.: 21.9 IS 10322 (Part-5/Section-9): 2017
160.	Rope Lights	Terminals	Cl. No.: 21.10 IS 10322 (Part-5/Section-9): 2017
161.	Rope Lights	External and internal wiring	Cl. No.: 21.11 IS 10322 (Part-5/Section-9): 2017
162.	Rope Lights	Protection against electric shock	Cl. No.: 21.12 IS 10322 (Part-5/Section-9): 2017
163.	Rope Lights	Endurance tests and thermal tests	Cl. No.: 21.13 IS 10322 (Part-5/Section-9): 2017
164.	Rope Lights	Resistance to dust, solid objects and moisture	Cl. No.: 21.14 IS 10322 (Part-5/Section-9): 2017
165.	Rope Lights	Insulation resistance and electric strength	Cl. No.: 21.15 IS 10322 (Part-5/Section-9): 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
166.	Rope Lights	Resistance to heat, fire and tracking	Cl. No.: 21.16 IS 10322 (Part-5/Section-9): 2017
167.	Safety of lamp control gear	General requirements	Cl. No.: 4 IS 15885 (Part 1): 2011
168.	Safety of lamp control gear	General notes on tests	Cl. No.: 5 IS 15885 (Part 1): 2011
169.	Safety of lamp control gear	Classification	Cl. No.: 6 IS 15885 (Part 1): 2011
170.	Safety of lamp control gear	Marking	Cl. No.: 7 IS 15885 (Part 1): 2011
171.	Safety of lamp control gear	Terminals	Cl. No.: 8 IS 15885 (Part 1): 2011
172.	Safety of lamp control gear	Provisions for protective earthing	Cl. No.: 9 IS 15885 (Part 1): 2011
173.	Safety of lamp control gear	Protection against accidental contact with live parts	Cl. No.: 10 IS 15885 (Part 1): 2011
174.	Safety of lamp control gear	Moisture resistance and insulation	Cl. No.: 11 IS 15885 (Part 1): 2011
175.	Safety of lamp control gear	Electric strength	Cl. No.: 12 IS 15885 (Part 1): 2011
176.	Safety of lamp control gear	Thermal endurance test for windings of ballasts	Cl. No.: 13 IS 15885 (Part 1): 2011
177.	Safety of lamp control gear	Fault condition	Cl. No.: 14 IS 15885 (Part 1): 2011
178.	Safety of lamp control gear	Construction	Cl. No.: 15 IS 15885 (Part 1): 2011

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
179.	Safety of lamp control gear	Creepage distances and clearances	Cl. No.: 16 IS 15885 (Part 1): 2011
180.	Safety of lamp control gear	Screws, current-carrying parts and connections	Cl. No.: 17 IS 15885 (Part 1): 2011
181.	Safety of lamp control gear	Resistance To Heat, Fire and Tracking	Cl. No.: 18 IS 15885 (Part 1): 2011
182.	Safety of lamp control gear	Resistance to Corrosion	Cl. No.: 19 IS 15885 (Part 1): 2011
183.	Self-ballasted led lamps for general lighting services	General Requirement and General Test Requirements	Cl. No.: 4 IS 16102 (Part 1):2012
184.	Self-ballasted led lamps for general Lighting services	Marking	Cl. No.: 5 IS 16102 (Part 1):2012
185.	Self-ballasted led lamps for general Lighting services	Interchangeability	Cl. No.: 6 IS 16102 (Part 1):2012
186.	Self-ballasted LED lamps for general lighting services	Protection against accidental contact with live parts	Cl. No.: 7 IS 16102 (Part 1):2012
187.	Self-ballasted LED lamps for general lighting services	Insulation resistance and electric strength after humidity treatment	Cl. No.: 8 IS 16102 (Part 1):2012
188.	Self-ballasted LED lamps for general lighting services	Mechanical strength	Cl. No.: 9 IS 16102 (Part 1):2012
189.	Self-ballasted LED lamps for general lighting services	Cap temperature rise	Cl. No.: 10 IS 16102 (Part 1):2012
190.	Self-ballasted LED lamps for general lighting services	Resistance to heat	Cl. No.: 11 IS 16102 (Part 1):2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
191.	Self-ballasted LED lamps for general lighting services	Resistance to flame and Ignition	Cl. No.: 12 IS 16102 (Part 1):2012
192.	Self-ballasted LED lamps for general lighting services	Fault condition	Cl. No.: 13 IS 16102 (Part 1):2012
193.	Self-ballasted LED lamps for general lighting services	Creepage distances and clearances	Cl. No.: 14 IS 16102 (Part 1):2012
194.	Self-ballasted LED lamps for general lighting services	Selection of lamps for tests	Cl. No.: 15 IS 16102 (Part 1):2012
195.	Self-ballasted LED lamps for general lighting services	Conditions of Compliance	Cl. No.: 16 IS 16102 (Part 1):2012



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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Luminaries		
1.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Power supply characteristics	Cl. No. 5.0 IS 16106: 2012, IES LM 79
		Wave shape of AC power supply	Cl. No. 5.1 IS 16106: 2012, IES LM 79
		Voltage regulation	Cl. No. 5.2 IS 16106: 2012, IES LM 79
2.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Seasoning (ageing) of SSL product	Cl. No. 6 IS 16106: 2012, IES LM 79
3.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Stabilization of SSL products	Cl. No. 7 IS 16106: 2012, IES LM 79
4.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Operating orientation	Cl. No. 8 IS 16106: 2012, IES LM 79
5.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Electrical setting	Cl. No. 9 IS 16106: 2012, IES LM 79

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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
6.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Electrical instrumentation	Cl. No. 10 IS 16106: 2012, IES LM 79
		Circuits	Cl. No. 10.1 IS 16106: 2012, IES LM 79
		Uncertainties	Cl. No. 10.2 IS 16106: 2012, IES LM 79
7.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Test methods for total luminous flux measurement	Cl. No. 11 IS 16106: 2012, IES LM 79
8.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Luminous intensity distribution	Cl. No. 12 IS 16106: 2012, IES LM 79
9.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Luminous efficacy	Cl. No. 13 IS 16106: 2012, IES LM 79
10.	Method of electrical and photometric measurements of solid-state lighting (Led) products	Test method for colour characteristics of SSL products	Cl. No. 14 IS 16106: 2012, IES LM 79
11.	Self-Ba lasted Led Lamps for General Lighting Services Part	Marking	Cl. No. 5 IS 16102 (Part 2): 2017

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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	2 Performance Requirements		
12.	Self-ballasted LED lamps for general lighting services part 2 performance requirements	Dimensions	Cl. No. 6 IS 16102 (Part 2): 2017
13.	Self-ballasted LED lamps for general lighting services part 2 performance requirements	Test Conditions	Cl. No. 7 IS 16102 (Part 2): 2017
		General Test Conditions	Cl. No. 7.1 IS 16102 (Part 2): 2017
		Creation of lamp families to reduce test effort	Cl. No. 7.2 IS 16102 (Part 2): 2017
14.	Self-ballasted LED lamps for general lighting services part 2 performance requirements	Lamp Input	Cl. No. 8 IS 16102 (Part 2): 2017
		Lamp power	Cl. No. 8.1 IS 16102 (Part 2): 2017
		Power factor	Cl. No. 8.2 IS 16102 (Part 2): 2017
		Harmonics	Cl. No. 8.3 IS 16102 (Part 2): 2017
15.	Self-ballasted LED lamps for general lighting services part 2 performance requirements	Light output	Cl. No. 9 IS 16102 (Part 2): 2017
		Luminous flux	Cl. No. 9.1 IS 16102 (Part 2): 2017
		Luminous Intensity distribution	Cl. No. 9.2.3 IS 16102 (Part 2): 2017
		Peak Intensity	Cl. No. 9.2.4

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			IS 16102 (Part 2): 2017
		Beam angle	Cl. No. 9.2.5 IS 16102 (Part 2): 2017
		Efficacy	Cl. No. 9.3 IS 16102 (Part 2): 2017
16.	Self-ballasted LED lamps for general lighting services part 2 performance requirements	Colour Nomenclature, Variation and Rendering	Cl. No. 10 IS 16102 (Part 2): 2017
		Colour Variation categories (CCT)	Cl. No. 10.1 IS 16102 (Part 2): 2017
		Colour Rendering Index (CRI)	Cl. No. 10.2 IS 16102 (Part 2): 2017
17.	Self-ballasted LED lamps for general lighting services part 2 performance requirements	Lamp Life	Cl. No. 11 IS 16102 (Part 2): 2017
		General	Cl. No. 11.1 IS 16102 (Part 2): 2017
		Lumen Maintenance	Cl. No. 11.2 IS 16102 (Part 2): 2017
		Endurance Tests	Cl. No. 11.3 IS 16102 (Part 2): 2017
18.	LED modules for general lighting part 2 performance requirements	Marking	Cl. No. 4 IS 16103 (Part 2): 2012
19.	LED modules for general lighting part 2 performance requirements	Dimensions	Cl. No. 5 IS 16103 (Part 2): 2012

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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
20.	LED modules for general lighting part 2 performance requirements	Test conditions	Cl. No. 6 IS 16103 (Part 2): 2012
21.	LED modules for general lighting part 2 performance requirements	Module power	Cl. No. 7: IS 16103 (Part 2): 2012
22.	LED modules for general lighting part 2 performance requirements	Light output	Cl. No. 8 IS 16103 (Part 2): 2012
		Luminous flux	Cl. No. 8.1 IS 16103 (Part 2): 2012
		Luminous Intensity distribution	Cl. No. 8.2.3 IS 16103 (Part 2): 2012
		Peak Intensity value	Cl. No. 8.2.4 IS 16103 (Part 2): 2012
		Beam angle value	Cl. No. 8.2.5 IS 16103 (Part 2): 2012
		Luminaire efficacy	Cl. No. 8.3 IS 16103 (Part 2): 2012
23.	LED modules for general lighting part 2 performance requirements	Chromaticity coordinates, correlated colour temperature (CCT) and colour rendering	Cl. No.: 9 IS 16103 (Part 2): 2012
		Chromaticity coordinates	Cl. No.: 9.1 IS 16103 (Part 2): 2012
		Correlated colour temperature (CCT)	Cl. No.: 9.2 IS 16103 (Part 2): 2012

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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		Colour rendering Index (CRI)	Cl. No.: 9.3 IS 16103 (Part 2): 2012
24.	LED modules for general lighting part 2 performance requirements	Led module life	Cl. No. 10 IS 16103 (Part 2): 2012
		Endurance tests	Cl. No. 10.3 IS 16103 (Part 2): 2012
25.	Recessed luminaires	Photometric tests	Cl. No. 17 IS 10322 (Part-5/Section-2): 2012
26.	Luminaires for road and street Lighting	Photometric tests	Cl. No. 17 IS 10322 (Part-5/Section-3): 2012
27.	Flood Light	Photometric requirements	Cl. No. 17 IS 10322 (Part-5/Section-5): 2013

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Electronics- Telecommunication equipment- (Page no. 39), Domestic electronic appliances (Page no. 40)

Electrical- Domestic electrical appliances (Page no. 75-94), Lamp, luminaries and accessories (Page no. 95-111)

Photometry-Luminaries (Page no. 112-117)

