Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)

Certificate of Accreditation

IEC Test Labs LLP

N-47, Sector-5, Bawana Industrial Area, DSIIDC, Bawana
Delhi-110039, 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/2023/0009

(Date of First Accreditation: 29 April 2023 - 28 April 2025)

Valid from: **29 April 2025** *Valid until:* **28 April 2027**

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: www.qai.org.in

Scope of Accreditation

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
1.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles	Dimension measurement	IS 16893-1:2018/ IEC 62660-1: 2018 Cl.5
2.		Mass measurement	IS 16893-1:2018/ IEC 62660-1: 2018 Cl.6
3.		General charge conditions	Cl.7.1 IS 16893-1:2018/ IEC 62660-1: 2018
4.		Capacity	IS 16893-1-:2018/ IEC 62660-1: 2018 Cl.7.2
5.		SOC adjustment	IS 16893-1-:2018/ IEC 62660-1: 2018 Cl.7.3
6.		Power	IS 16893-1-:2018/ IEC 62660-1: 2018 Cl.7.4
7.		Energy	IS 16893-:2018/ IEC 62660-1: 2018 Cl.7.5
8.		Storage test	IS 16893-:2018/ IEC 62660-1: 2018 Cl.7.6
9.		Cycle life test	IS 16893-1:2018/ IEC 62660-1: 2018 Cl.7.7
10.		Energy efficiency test	IS 16893-:2018/ IEC 62660-1: 2018 Cl.7.8
11.		General charge conditions	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.5.1
12.		Capacity	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.5.2

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
13.		SOC adjustment	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.5.3
14.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles	Vibration	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6, Cl.6.1, Cl.6.1.1
15.		Mechanical shock	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6.1.2
16.		Crush	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6.1.3
17.		High temperature endurance	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6.2, Cl.6.2.1
18.		Temperature cycling	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6.2.2
19.		External short circuit	IS 16893-2: 2018 / IEC 62660-2: 2018 Cl.6.3, Cl.6.3.1
20.		Overcharge	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6.3.2
21.		Forced discharge	IS 16893-2:2018/ IEC 62660-2: 2018 Cl.6.3.3
22.		General charge conditions	IS 16893-3: 2018 / IEC 62660-3: 2022 Cl.5.1
23.		Capacity	IS 16893-3: 2018/ IEC 62660-3: 2022 Cl.5.2
24.		SOC adjustment	IS 16893-3: 2018/ IEC 62660-3: 2022 Cl.5.3

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	Cells and Batteries		
25.		Vibration	IS 16893-3: 2018/ IEC 62660-3: 2022 Cl.6, Cl.6.1, Cl.6.2.1
26.		Mechanical shock	IS 16893-3: 2018 / IEC 62660-3: 2022 Cl.6.2.2
27.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles	Crush	IS 16893-3: 2018/ IEC 62660-3: Cl.6.2.3 2010
28.		High temperature endurance	IS 16893-3: 2018/ IEC 62660-3: 2022 Cl.6.3, Cl.6.3.1
29.		Temperature cycling	IS 16893-3: 2018 / IEC 62660-3: 2022 Cl.6.3.2
30.		External short circuit	IS 16893-3: 2018/ IEC 62660-3: 2022 Cl.6.4, Cl.6.4.1
31.		Overcharge	IS 16893-3: 2018/ IEC 62660-3: 2022 Cl.6.4.2
32.		Forced discharge	IS 16893-3: 2018 / IEC 62660-3: 2022 Cl.6.4.3, 6.4.4
33.		Internal short circuit	IS 16893-3: 2018 / IEC 62660-3: 2022 Cl.6.4.4
34.	Stationary Cells and Batteries, Lead-Acid Type (with tubular positive plates)	Classification of tests	IS 1651: 2013 Cl. 12.1
35.		Verification of constructional requirements	IS 1651: 2013 Cl. 12.2
36.		Verification of marking	IS 1651: 2013 Cl. 12.3
37.		Verification of dimensions	IS 1651: 2013 Cl. 12.4

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
38.		Capacity	IS 1651: 2013 Cl. 12.5
39.		Alternative Rates of Test Discharge	IS 1651: 2013 Cl. 12.6
40.		Loss of capacity on storage	IS 1651: 2013 Cl. 12.7
41.		Endurance Test	IS 1651: 2013 Cl. 12.8
42.	Stationary Cells and Batteries, Lead-Acid Type (with tubular positive plates)	Ampere-hour and watt-hour efficiency	IS 1651: 2013 Cl. 12.9
43.		Voltage during discharge	IS 1651: 2013 Cl. 12.10
44.		Water Loss Test	IS 1651: 2013 Cl. 12.11
45.		Test of suitability of floating battery operation	IS 1651: 2013 Cl. 12.12
46.		Short circuit current and internal Resistance test	IS 1651: 2013 Cl. 12.13
47.	Stationary Lead-acid batteries- (with tubular positive plates) in Monobloc Container	Classification of test	IS 13369: 1992 Cl. 11.1
48.		Verification of construction requirement	IS 13369: 1992 Cl. 11.2
49.		Verification of marking	IS 13369: 1992 Cl. 11.3
50.		Verification of dimensions	IS 13369: 1992 Cl. 11.4
51.		Test for Capacity (20 days)	IS 13369: 1992 Cl. 11.5
52.		Test for loss of Capacity on storage	IS 13369: 1992 Cl. 11.6

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
53.		Endurance test	IS 13369: 1992 Cl. 11.7
54.		Ampere-hour & watt- hour efficiency test	IS 13369: 1992 Cl. 11.8
55.		Water Loss test	IS 13369: 1992 Cl. 11.9
56.	Stationary Regulated Lead Acid Batteries	Visual Examination Checking dimensions as per manufacturer's drawing	IS 15549: 2005 Cl. 4.1 to 4.9, 8.1
57.		C10 Capacity and voltage during discharge	IS 15549: 2005 Cl. 12.1
58.		C1 capacity and voltage during discharge	IS 15549: 2005 Cl. 12.2
59.		Capacity Test at Other Discharge Rates	IS 15549: 2005 Cl. 12.3
60.		Ampere hour and watt hour efficiency	IS 15549: 2005 Cl. 12.4 & 12.5
61.		Retention of Charge	IS 15549: 2005 Cl. 12.6
62.		Endurance life cycle	IS 15549: 2005 Cl. 12.10
63.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes	Cell designation and marking	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.5
64.		Verification of marking	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.5.2

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
65.		Endurance in cycles (accelerated)	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.6.3
66.		Electrical tests	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.7
67.		Discharge performance at 20°C (rated) capacity	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.7.3.1
68.		Discharge performance at -20°C	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.7.3.2
69.		High-rate discharge capacity at 20°C	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.7.3.3
70.		Charge (capacity) retention & recovery	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.7.4
71.		Charge (capacity) recovery after long term storage	IS 16047-3: 2018 / IEC 61960-3: 2017 Cl.7.5
72.		Endurance in cycles	IS 16047-3: 2018 / IEC 61960-3: Cl.7.6
73.		Battery internal resistance	IS 16047-3: 2018 / IEC 61960-3: Cl.7.7
74.	Lead Acid Storage Batteries for Motor Vehicles with Light Weight and High Cranking Performance	Physical examination	IS 14257: 2019 Cl. 9.3.1
75.		Dimension & layout	IS 14257: 2019 Cl. 9.3.2
76.		Verification of marking	IS 14257: 2019 Cl. 9.3.3
77.		Capacity (5-h Rate)	IS 14257: 2019 Cl. 9.3.4

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
78.		High-rate discharge test	IS 14257: 2019 Cl. 9.3.5
79.		Cold cracking performance test	IS 14257: 2019 Cl. 9.3.6
80.		Reverse Capacity Test	IS 14257: 2019 Cl. 9.3.7
81.		Charge Acceptance Test	IS 14257: 2019 Cl. 9.3.8
82.		Water Consumption Test	IS 14257: 2019 Cl. 9.3.9
83.		Charging Retention Test	IS 14257: 2019 Cl. 9.3.10
84.		Light Load Endurance Test	IS 14257: 2019 Cl. 9.3.11
85.		Life Cycle Test	IS 14257: 2019 Cl. 9.3.12
86.		Overcharge endurance test	IS 14257: 2019 Cl. 9.3.13
87.		Electrolyte retention test	IS 14257: 2019 Cl. 9.3.14
88.		Vibration resistance test	IS 14257: 2019 Cl. 9.3.15
89.		Strength of terminal test	IS 14257: 2019 Cl. 9.3.16
90.		Robustness to fastening test	IS 14257: 2019 Cl. 9.3.17
91.		Test for dry-charged battery	IS 14257: 2019 Cl. 9.3.18
92.	Secondary Cells and Batteries for Renewable Energy Storage Photovoltaic off-grid Application	C10 Capacity and voltage during discharge	IEC 61427-1: 2013 Cl. 8.1
93.		C120 Capacity	IEC 61427-1: 2013 Cl. 8.1
94.		Generic cycling endurance test	IEC 61427-1: 2013 Cl. 8.2

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
95.		Charge retention during storage	IEC 61427-1: 2013 Cl. 8.3
96.		Cycling endurance in photovoltaic applications (extreme conditions)	IEC 61427-1: 2013 Cl. 8.4
97.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes (for lithium cells and batteries for use in industrial applications)	Parameter measurement tolerances	IS 16805: 2018 / IEC 62619: 2022 Cl. 4
98.		General safety considerations	IS 16805: 2018 / IEC 62619: 2022 Cl. 5.1, Cl.5.2, Cl. 5.3, Cl.5.4, Cl. 5.5, Cl. 5.6, Cl. 5.7, Cl. 5.8
99.		Type test conditions	IS 16805: 2018 / IEC 62619: 2022 Cl. 6.1, Cl.6.2
100.		Charging procedures for test purposes	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.1
101.		External short circuit test (cellor cell block)	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.2.1
102.		Impact test (cell or cell block)	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.2.2
103.		Drop Test (cell or cell block,and battery system)	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.2.3
104.		Thermal Abuse test (cell or cell block)	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.2.4
105.		Over charge test (cell or cellblock)	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.2.5

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
106.		Forced discharge test (cell or cell block)	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.2.6
107.		Considerations for internal short circuit-design evaluation	IS 16805: 2018 / IEC 62619: 2022 Cl. 7.3. 7.3.1, 7.3.2, 7.3.3
108.		Battery safety system	IS 16805: 2018 / IEC 62619: 2022 Cl. 8
109.		Information for safety	IS 16805: 2018 / IEC 62619: 2022 Cl. 9
110.		Marking and designation	IS 16805: 2018 / IEC 62619: 2022 Cl. 10
111.	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	IS 16822: 2019/ IEC62620 Cl. 4
112.		Marking and designation	IS 16822: 2019/ IEC62620: 2014 Cl. 5
113.		General	IS 16822: 2019/ IEC62620: 2014 CL. 6.1
114.		Charging procedure for test purposes	IS 16822: 2019/ IEC62620: 2014 Cl. 6.2
115.		Discharge performance at +25°C	IS 16822: 2019/ IEC 62620: 2014 Cl. 6.3.1
116.		Discharge performance at low temperature	IS 16822: 2019/ IEC62620: 2014 Cl. 6.3.2
117.		High rate permissible current	IS 16822: 2019/ IEC62620: 2014 Cl. 6.3.3

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
118.		Charge (capacity) retentionand recovery	IS 16822: 2019/ IEC62620: 2014 Cl. 6.4
119.		Cell and battery internal resistance	IS 16822: 2019/ IEC62620: 2014 Cl. 6.5
120.		Endurance	IS 16822: 2019/ IEC62620: 2014 Cl. 6.6
121.		General	IS 16822: 2019/ IEC62620: 2014 Cl. 7.1
122.		Sample size	IS 16822: 2019/ IEC62620: 2014 Cl. 7.2
123.		Dimensions	IS 16822: 2019/ IEC62620: 2014 Cl 7.3.1
124.		Electrical tests	IS 16822: 2019/ IEC62620: 2014 Cl. 7.3.2
125.	Stationary Cells and Batteries, Lead-Acid Type (with tubular positive plates)	Capacity	IEC 60896-11: 2002 Cl. 7
126.		Suitability for floating battery operation	IEC 60896-11: 2002 Cl. 8
127.		Endurance Test	IEC 60896-11: 2002 Cl. 9
128.		Charge retention	IEC 60896-11: 2002 Cl. 10
129.		Short-circuit current and internal resistance	IEC 60896-11: 2002 Cl. 11

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
130.		Accuracy of measuring instruments	IEC 60896-11: 2002 Cl. 12
131.		Preparation of cells and batteries for testing	IEC 60896-11: 2002 Cl. 13
132.		Capacity test	IEC 60896-11: 2002 Cl. 14
133.		Test of suitability for floating battery operation	IEC 60896-11: 2002 Cl. 15
134.		Endurance in discharge-charge cycles	IEC 60896-11: 2002 Cl. 16
135.		Endurance in overcharge	IEC 60896-11: 2002 Cl. 17
136.		Charge retention test	IEC 60896-11: 2002 Cl. 18
137.		Short-circuit current and internal resistance determination	IEC 60896-11: 2002 Cl. 19
138.		Test sequence	IEC 60896-11: 2002 Cl. 20
139.		Cell and battery markings	IEC 60896-11: 2002 Cl. 21
140.	Electrically Propelled Road Vehicles- Dimensions and Designation of Secondary Lithium- Ion Cells	Shape of construction and constitute parts of secondary lithium-ion cells	IS 16827:2018 ISO/IEC PAS 16898 Withdrawn Cl.4
141.		Designation of cell	IS 16827:2018 ISO/IEC PAS 16898 Withdrawn Cl.5
142.		Measurement conditions	IS 16827:2018 ISO/IEC PAS 16898 Withdrawn Cl.6

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
143.		Dimensions for the selected cell design	IS 16827:2018 ISO/IEC PAS 16898 Withdrawn Cl.7
144.	Lithium Metal and Lithium Ion Cells and Batteries	Altitude simulation	UN 38.3 Cl. 38.3.4:2016
145.		Thermal Test	UN 38.3 Cl. 38.3.4.2:2016
146.		Vibration Test	UN 38.3 Cl. 38.3.4.3:2016
147.		Shock Test	UN 38.3 Cl. 38.3.4.4:2016
148.		External Short Circuit Test	UN 38.3 Cl. 38.3.4.5:2016
149.		Impact Test	UN 38.3 Cl. 38.3.4.6.2:2016
150.		Crush Test	UN 38.3 Cl. 38.3.4.6.3:2016
151.		Forced Discharge Test	UN 38.3 Cl. 38.3.4.8:2016
152.		Overcharge Test	UN 38.3 Cl. 38.3.4.7:2016
153.	Lithium Batteries	Abnormal charging	UL 1642:1999
154.		Crush	UL 1642:1999
155.		External short circuit	UL 1642:1999
156.		Forced discharge	UL 1642: :1999
157.		Heating	UL 1642:1999
158.		Impact	UL 1642:1999
159.		Low Pressure (Altitude Simulation)	UL 1642:1999

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	Cells and Batteries		
160.		Shock	UL 1642:1999
161.		Temperature Cycling	UL 1642:1999
162.		Vibration	UL 1642:1999
163.	Secondary Cells and Batteries for Solar Photovoltaic Application	Condition use	IS 16270: 2023 Cl.4.1, 4.2, 4.2.1, 4.3, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.7, 4.3.8, 4.3.9, 4.3.10, 4.3.11
164.		Safety	IS 16270: 2023 Cl. 5.5
165.		Functional characteristic	IS 16270: 2023 Cl. 6
166.		General test condition	IS 16270: 2023 Cl. 7.1, 7.2
167.		Capacity	IS 16270: 2023 Cl.8.1, 8.1.1
168.		Endurance in cycle	IS 16270: 2023 Cl.8.2
169.		Charge retention	IS 16270: 2023 Cl.8.3
170.		Cycle endurance test in photovoltaic application (Extreme conditions)	IS 16270: 2023 Cl.8.4, 8.4.1, 8.4.2, 8.4.3, 8.4.4, 8.4.5, 8.4.6
171.		Sulphation Test	IS 16270: 2023 Cl. 8.5, 8.5.1, 8.5.1.1, 8.5.2, 8.5.2.1
172.		Water Loss Test	IS 16270: 2023 Cl.8.6

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
173.		Splash proof test (Lead Acid Battery)	IS 16270: 2023 Cl.8.7, 8.7.1, 8.7.2, 8.7.3, 8.7.4
174.		Mechanical endurance test	IS 16270: 2023 Cl.5.1
175.		Charge efficiency	IS 16270: 2023 Cl. 5.2
176.		Deep discharge protection	IS 16270: 2023 Cl. 5.3
177.		Verification of marking	IS 16270: 2023 Cl.5.4, 5.4.1
178.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes (Nickel)	Parameter measurement tolerance	IS 16046 (Part-1): 2018 / IEC 62133-1: 2017 Cl. 4
179.		General Safety Consideration	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 5
180.		Insulation and wiring	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 5.2
181.		Venting	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 5.3
182.		Temperature, voltage and current management	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 5.4
183.		Terminal contacts	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 5.5
184.		Assembly of cells into batteries	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 5.6
185.		Quality plan	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 5.7

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	Cells and Batteries		
186.		Type test and sample size	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 6
187.		Charging procedure for test purposes	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.1
188.		Continuous low-Rate charging (Cells)	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.2.1
189.		Vibration	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.2.2
190.		Case stress at high ambient temperature (Batteries)	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.2.3
191.		Temperature cycling	IS 16046-1:2018 / IEC 62133-1: 2017 Cl. 7.2.4
192.		Incorrect installation (Cells)	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.3.1
193.		External short circuit	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.3.2
194.		Free fall	Cl. 7.3.3, IS 16046 (Part -1): 2018 / IEC 62133-1: 2017
195.		Mechanical shock (Crash Hazard)	IS 16046 (Part -1): 2018/ IEC 62133-1: 2017 Cl. 7.3.4
196.		Thermal abuse	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.3.5

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
197.		Crushing of cells	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.3.6
198.		Low pressure	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.3.7
199.		Overcharge	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 7.3.8
200.		Forced discharge (Cells)	IS 16046 (Part-1): 2018 / IEC 62133-1: 2017 Cl. 7.3.9
201.		Information for safety	IS 16046 (Part -1): 2018/ IEC 62133-1: 2017 Cl. 8, Cl. 8.1
202.		Small cell and battery safety information	IS 16046 (Part -1): 2018 / IEC 62133-1: 2017 Cl. 8.2
203.		Marking	IS 16046 (Part 1):2018 / IEC 62133-1: 2017 Cl. 9
204.		Packaging	IS 16046 (Part 1): 2018 / IEC 62133-1: 2017 Cl. 10
205.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes (Lithium)	Parameter measurement tolerance	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.4
206.		General safety consideration	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5
207.		Insulation & wiring	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.2

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	Cells and Batteries		
208.		Venting	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.3
209.		Temperature, voltage and current management	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.4
210.		Terminal contacts	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.5
211.		Assembly of cells into batteries	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.6
212.		Quality Plan	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.7
213.		Battery safety component	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.5.8
214.		Type test and sample size	IS 16046 (Part- 2): 2018 / IEC 62133-2: 2017 Cl.6
215.		Charging procedure for test purpose	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl.7.1, 7.1.1, 7.1.2
216.		Continuous charging at constant voltage (cells)	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl.7.2, 7.2.1
217.		Case stress at high ambient temperature (Battery)	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.2.2
218.		External short circuit (Cell)	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.3.1

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	Cells and Batteries		
219.		External short circuit (Battery)	IS 16046 (Part -2): 2018/IEC 62133-2: 2017 Cl. 7.3.2
220.		Free fall	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.3.3
221.		Thermal abuse (Cells)	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.3.4
222.		Crush (Cell)	IS 16046 (Part -2): 2018/IEC 62133-2: 2017 Cl. 7.3.5
223.		Overcharging of battery	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.3.6
224.		Forced discharge (Cells)	IS 16046 (Part-2): 2018 / IEC 62133-2: 2017 Cl. 7.3.7
225.		Vibration (Battery)	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.3.8.1
226.		Mechanical shock (Battery)	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 7.3.8.2
227.		Information for safety	IS 16046 (Part -2): 2018 / IEC 62133-2: 2017 Cl. 8, 8.1, 8.2
228.		Marking	Cl.9, IS 16046 (Part 2): 2018 / IEC 62133-2: 2017
229.		Packaging and transport	IS 16046 (Part 2): 2018 / IEC 62133-2: 2017 Cl.10

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	Cells and Batteries		
230.		Measurement of the internal AC resistance for coin cells	IS 16046 (Part 2): 2018 / IEC 62133-2: 2017 Annex. D
231.	Lead Acid Storage Batteries for Motor Vehicles	Materials, construction and workmanship	IS 7372:2017 Cl. 4 (Withdrawn)
232.		Capacities, Overall Dimensions and Layout	IS 7372:2017 Cl. 6 (Withdrawn)
233.		Physical examination	IS 7372:2017 Cl. 9.3(Withdrawn)
234.		Dimensions and layout	IS 7372:2017 Cl.9.4 (Withdrawn)
235.		Marking	IS 7372:2017 Cl.9.5 (Withdrawn)
236.		Air pressure test	IS 7372:2017 Cl.9.6 (Withdrawn)
237.		Capacity Test	IS 7372:2017 Cl.9.7 (Withdrawn)
238.		Vibration test	IS 7372:2017 Cl.9.8 (Withdrawn)
239.		High-rate discharge test at normal temperature	IS 7372:2017 Cl.9.9 (Withdrawn)
240.		High-rate discharge test at low temperature	IS 7372:2017 Cl.9.10 (Withdrawn)
241.		High-rate discharge test at normal temperature for batteries for heavy duty application	IS 7372:2017 Cl.9.11 (Withdrawn)
242.		Retention of charge test	IS 7372:2017 Cl.9.12 (Withdrawn)

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
243.		Resistance to overcharge test	IS 7372:2017 Cl.9.13 (Withdrawn)
244.		Life test	IS 7372:2017 Cl.9.14 (Withdrawn)
245.		High- rate discharge capacity (Dry charged battery)	IS 7372:2017 Cl.9.17 (Withdrawn)
246.	Stationary Cells and Batteries, Lead-Acid Type with Plante Positive Plates	Rating and designation	IS 1652: 2013 Cl. 4
247.		Constructional requirements	IS 1652: 2013 Cl. 5
248.		Capacities and dimensions	IS 1652: 2013 Cl. 6
249.		Marking	IS 1652: 2013 Cl. 7
250.		Tests for capacity	IS 1652: 2013 Cl. 11.6
251.		Alternate rated test discharge	IS 1652: 2013 Cl. 11.7
252.		Loss of capacity on storage	IS 1652: 2013 Cl. 11.8
253.		Endurance test	IS 1652: 2013 Cl. 11.9
254.		Ampere-hour and watt-hour efficiency	IS 1652: 2013 Cl. 11.10
255.		Test for voltage during discharge	IS 1652: 2013 Cl. 11.11
256.	Small-sized valve regulated lead-acid batteries	Capacity	JIS C 8702-1: 2009 Cl. 5.1
257.		High-rate discharge characteristics	JIS C 8702-1: 2009 Cl. 5.2

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	Cells and Batteries		
258.		Cycle service endurance	JIS C 8702-1: 2009 Cl. 5.3
259.		Storage Characteristics	JIS C 8702-1: 2009 Cl. 5.4
260.		Maximum Permissible current characteristics	JIS C 8702-1: 2009 Cl. 5.5
261.		Charge acceptance characteristics after deep discharge	JIS C 8702-1: 2009 Cl. 5.6
262.		Endurance in trickle application	JIS C 8702-1: 2009 Cl. 5.7
263.		Endurance in trickle application at 40°C	JIS C 8702-1: 2009 Cl. 5.8
264.		Capacity	JIS C 8702-1: 2009 Cl. 7.1
265.		High-rate discharge characteristics	JIS C 8702-1: 2009 Cl. 7.2
266.		Cycle service endurance	JIS C 8702-1: 2009 Cl. 7.3
267.		Storage characteristics	JIS C 8702-1: 2009 Cl. 7.4
268.		Maximum permissible current	JIS C 8702-1: 2009 Cl. 7.5
269.		Charge acceptance characteristics after deep discharge	JIS C 8702-1: 2009 Cl. 7.6
270.		Endurance in trickle application	JIS C 8702-1: 2009 Cl. 7.7
271.		Endurance in trickle application at 40°C	JIS C 8702-1: 2009 Cl. 7.8

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	Cells and Batteries		
272.	Lead - Acid Traction Batteries	Capacity test	IS 5154 (Part 1): 2013 IEC 60254-1: 2005 Cl. 5.2
273.		Charge retention test	IS 5154 (Part 1): 2013 IEC 60254-1: 2005 Cl. 5.3
274.		High-rate discharge performance test	IS 5154 (Part 1): 2013 IEC 60254-1: 2005 Cl. 5.4
275.		Cyclic endurance test	IS 5154 (Part 1): 2013 IEC 60254-1: 2005 Cl. 5.5
276.		Energy density	IS 5154 (Part 1): 2013 IEC 60254-1: 2005 Cl. 6.1
277.	Lithium Ion Battery for Telecom Applications	Container:	Cl. No. 2.3 TEC 67030:2024
278.		Type of container material	Cl. No. 2.4 TEC 67030:2024
279.		Cell/module Covers	Cl. No. 2.5 TEC 67030:2024
280.		Pressure release Valve	Cl. No. 2.6 TEC 67030:2024
281.		Cell Capacity	Cl. No. 3.1 TEC 67030:2024
282.		Module capacity	Cl. No. 3.2 TEC 67030:2024
283.		Charging	Cl. No. 3.3 TEC 67030:2024
284.		Voltages during Discharge	Cl. No. 3.4 TEC 67030:2024
285.		Battery Discharge Tables	Cl. No. 3.5 TEC 67030:2024
286.		Transient Response (Coup De Fouet)	Cl. No. 3.6 TEC 67030:2024

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	Cells and Batteries		
287.		Loss of Capacity during Storage	Cl. No. 3.7 TEC 67030:2024
288.		Ampere Hour (Ah) Efficiency	Cl. No. 3.8 TEC 67030:2024
289.		Watt-Hour Efficiency	Cl. No. 3.9 TEC 67030:2024
290.		Short Circuit	Cl. No. 3.10 TEC 67030:2024
291.		Cell Matching	Cl. No. 3.11 TEC 67030:2024
292.		Internal resistance (IR Matching)	Cl. No. 3.12 TEC 67030:2024
293.		Standard discharge & charge current	Cl. No. 3.13 TEC 67030:2024
294.		Module charging voltage	Cl. No. 3.14 TEC 67030:2024
295.		Cut-off voltage (V):	Cl. No. 3.15 TEC 67030:2024
296.		Environmental requirement	Cl. No. 3.16 TEC 67030:2024
297.		Relative humidity	Cl. No. 3.17 TEC 67030:2024
298.		Atmospheric pressure	Cl. No. 3.18 TEC 67030:2024
299.		Cycle Life	Cl. No. 3.19 TEC 67030:2024
300.		Charge limitation	Cl. No. 4.2 TEC 67030:2024
301.		Discharge performance	Cl. No. 4.3 TEC 67030:2024
302.		Safety Requirements	Cl. No. 5.1 TEC 67030:2024
303.		Data Display accuracy	Cl. No. 6.1 TEC 67030:2024

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	Cells and Batteries		
304.		Monitoring Function	Cl. No. 6.2 TEC 67030:2024
305.		Protection and Alarm	Cl. No. 6.5 TEC 67030:2024
306.		Over Charge Protection	Cl. No. 6.5.1 TEC 67030:2024
307.		Over discharge protection	Cl. No. 6.5.2 TEC 67030:2024
308.		Short Circuit Protection:	Cl. No. 6.5.3 TEC 67030:2024
309.		Over Load Protection	Cl. No. 6.5.4 TEC 67030:2024
310.		Temperature Protection	Cl. No. 6.5.5 TEC 67030:2024
311.	Stationary Lead-Acid Batteries- Valve Regulated Types	Reporting format	IEC 60896-22: 2004 Cl. no. 5
312.		Requirements for gas emission information	IEC 60896-22: 2004 Cl. no. 6.1
313.		Requirement for high current tolerance	IEC 60896-22: 2004 Cl. no. 6.2
314.		Requirement for short- circuit current and dc internal resistance information	IEC 60896-22: 2004 Cl. no. 6.3
315.		Requirement for protection against internal ignition from external spark source	IEC 60896-22: 2004 Cl. no. 6.4
316.		Requirement for protection against ground short propensity	IEC 60896-22: 2004 Cl. no. 6.5

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
317.		Requirement for content and durability of required markings	IEC 60896-22: 2004 Cl. no. 6.6
318.		Requirement for the operation of the valve	IEC 60896-22: 2004 Cl. no. 6.8
319.		Requirement for definition of the flammability rating of the materials	IEC 60896-22: 2004 Cl. no. 6.9
320.		Requirement for discharge capacity performance	IEC 60896-22: 2004 Cl. no. 6.11
321.		Requirement for charge retention during storage	IEC 60896-22: 2004 Cl. no. 6.12
322.		Requirement for float service with daily discharges	IEC 60896-22: 2004 Cl. no. 6.13
323.		Requirement for recharge behavior	IEC 60896-22: 2004 Cl. no. 6.14
324.		Requirement for service life at an operating temperature of 40°C	IEC 60896-22: 2004 Cl. no. 6.15
325.		Requirement for the impact of a stress temperature of 55°C to 60°C	IEC 60896-22: 2004 Cl. no. 6.16
326.		Requirement for the impact of abusive over- discharges	IEC 60896-22: 2004 Cl. no. 6.17

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	Cells and Batteries		
327.		Requirement for information on thermal runaway sensitivity	IEC 60896-22: 2004 Cl. no. 6.18
328.		Requirement for the impact of low temperature service on capacity	IEC 60896-22: 2004 Cl. no. 6.19
329.		Requirement for dimensional stability at elevated internal pressure and temperature	IEC 60896-22: 2004 Cl. no. 6.20
330.		Requirement for stability against mechanical absuse of units during installation	IEC 60896-22: 2004 Cl. no. 6.21
331.	Stationary Lead-Acid Batteries – Valve Regulated Types	Gas emission	IEC 60896-21: 2004 Cl. no. 6.1
332.		High current tolerance	IEC 60896-21: 2004 Cl. no. 6.2
333.		Short- circuit current and d.c. internal resistance information	IEC 60896-21: 2004 Cl. no. 6.3
334.		Protection against internal ignition from external spark source	IEC 60896-21: 2004 Cl. no. 6.4
335.		Protection against ground short propensity	IEC 60896-21: 2004 Cl. no. 6.5
336.		content and durability of required markings	IEC 60896-21: 2004 Cl. no. 6.6
337.		valve operation	IEC 60896-21: 2004 Cl. no. 6.8

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	Cells and Batteries		
338.		Flammability rating of the materials	IEC 60896-21: 2004 Cl. no. 6.9
339.		Discharge capacity	IEC 60896-21: 2004 Cl. no. 6.11
340.		Charge retention during storage	IEC 60896-21: 2004 Cl. no. 6.12
341.		float service with daily discharges	IEC 60896-21: 2004 Cl. no. 6.13
342.		recharge behavior	IEC 60896-21: 2004 Cl. no. 6.14
343.		service life at an operating temperature of 40°C	IEC 60896-21: 2004 Cl. no. 6.15
344.		Impact of a stress temperature of 55°C to 60°C	IEC 60896-21: 2004 Cl. no. 6.16
345.		Aabusive over- discharges	IEC 60896-21: 2004 Cl. no. 6.17
346.		Thermal runaway sensitivity	IEC 60896-21: 2004 Cl. no. 6.18
347.		Low temperature service sensitivity	IEC 60896-21: 2004 Cl. no. 6.19
348.		Dimensional stability at elevated internal pressure and temperature	IEC 60896-21: 2004 Cl. no. 6.20
349.		Stability against mechanical absuse of units during installation	IEC 60896-21: 2004 Cl. no. 6.21
350.	Household and Commercial Batteries	Short-Circuit	UL 2054 Cl.no. 9: 2005
351.		Abnormal Charging Test	UL 2054 Cl. no. 10: 2005
352.		Abusive Overcharge Test	UL 2054 Cl. no. 11: 2005

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	Cells and Batteries		
353.		Forced-Discharge Test	UL 2054 Cl. no. 12: 2005
354.		Limited Power Source Test	UL 2054 Cl. no. 13: 2005
355.		Crush	UL 2054 Cl. no. 14: 2005
356.		Impact	UL 2054 Cl. no. 15: 2005
357.		Shock	UL 2054 Cl. no. 16: 2005
358.		Vibration	UL 2054 Cl. no. 17: 2005
359.		250 N Steady Force Test	UL 2054 Cl. no. 19: 2005
360.		Mold Stress Relief Test	UL 2054 Cl. no. 20: 2005
361.		Drop Impact	UL 2054 Cl. no. 21: 2005
362.		Projectile	UL 2054 Cl. no. 22: 2005
363.		Heating	UL 2054 Cl. no. 23: 2005
364.		Temperature Cycling Test	UL 2054 Cl. no. 24: 2005
365.		Marking	UL 2054 Cl. no. 25: 2005
366.	Specific Requirements for Electric Power Train of Vehicles	REESS Ingress protection Requirement	Cl. 6.1.1 AIS 156:2020
367.		Vibration	Cl. 6.2 AIS 156:2020
368.		Thermal shock and cycling	Cl. 6.3 AIS 156:2020
369.		Drop test for removable REESS	Cl. 6.4.1 AIS 156:2020

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	Cells and Batteries		
370.		External short circuit protection	Cl. 6.6 AIS 156:2020
371.		Overcharge protection	Cl. 6.7 AIS 156:2020
372.		Over-discharge protection	Cl. 6.8 AIS 156:2020
373.		Over-temperature protection	Cl. 6.9 AIS 156:2020
374.		Thermal Propagation Test	Cl. 6.11 AIS 156:2020
375.		Technical Requirements for Traction Battery (REESS) of L Category Electric Power Train Vehicles	Annex 8K AIS 156:2020
376.	Specific Requirements for Electric Power of Vehicles	Application for approval of REESS (Informative)	Cl. 4 AIS 038: 2015
377.		External short circuit	Cl. 6.6 AIS 038: 2015
378.		Low temperature protection	Cl. 6.11 AIS 038: 2015
379.		Mechanical Shock- Acceptance Criteria	Cl. 6.4.1.3 AIS 038: 2015
380.		Mechanical Shock- Component based test	Cl. 6.4.1.2 AIS 038: 2015
381.		Over current protection	Cl. 6.10 AIS 038: 2015
382.		Overcurrent protection	Cl. 6.10 AIS 038: 2015
383.		Over discharge protection	Cl. 6.8 AIS 038: 2015
384.		Over temperature protection	Cl. 6.9 AIS 038: 2015

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	Cells and Batteries		
385.		Thermal propagation	Cl. 6.15 AIS 038: 2015
386.		Requirements Of A Rechargeable Electrical Energy Storage System (REESS) With Regard to Its Safety- General	Cl. 6.1 AIS 038: 2015
387.		Thermal shock and cycling	Cl. 6.3 AIS 038: 2015
388.		Vibration	Cl. 6.3 AIS 038: 2015
389.	Batteries for Use in Light Electric Rail (LER) Application and Stationary Application	Measurement equipment accuracy	UL 1973 Cl. no.12: 2022
390.		Overcharge test	UL 1973 Cl. no.13: 2022
391.		Short circuit test	UL 1973 Cl. no.14: 2022
392.		Over discharge protection test	UL 1973 Cl. no.15: 2022
393.		Temperature and operating limits check test	UL 1973 Cl. no.16: 2022
394.		Imbalanced Charging Test	UL 1973 Cl. no.17: 2022
395.		Dielectric Voltage withstand test	UL 1973 Cl. no.18: 2022
396.		Continuity Test	UL 1973 Cl. no.19: 2022
397.		Failure of cooling/thermal stability system	UL 1973 Cl. no.20: 2022
398.		Working voltage measurement	UL 1973 Cl. no.21: 2022

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	Cells and Batteries		
399.		Test on electrical component locked-rotor test for low voltage dc fans/motors in secondary circuits	UL 1973 Cl. no.22.1: 2022
400.		Input	UL 1973 Cl. no.22.2: 2022
401.		Leakage current	UL 1973 Cl. no.22.3: 2022
402.		Strain relief test	UL 1973 Cl. no.22.4: 2022
403.		Push-back relief test	UL 1973 Cl. no.22.5: 2022
404.		Vibration (LER Motive Application)	UL 1973 Cl. no.23: 2022
405.		Shock test (LER Motive Application)	UL 1973 Cl. no.24: 2022
406.		Crush test (LER Motive Application)	UL 1973 Cl. no.25: 2022
407.		Static force test	UL 1973 Cl. no.26: 2022
408.		Impact Test	UL 1973 Cl. no.27: 2022
409.		Drop Impact Test	UL 1973 Cl. no.28: 2022
410.		Wall mount fixture/handle test	UL 1973 Cl. no.29: 2022
411.		Mould stress test	UL 1973 Cl. no.30: 2022
412.		Pressure release test	UL 1973 Cl. no.31: 2022

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
413.		Start to discharge test	UL 1973 Cl. no.32: 2022
414.		Thermal cycling test (LER Motive Application)	UL 1973 Cl. no.33: 2022
415.		Resistance to moisture test	UL 1973 Cl. no.34: 2022
416.		Salt Fog Test	UL 1973 Cl. no.35: 2022
417.		External fire exposure	UL 1973 Cl. no.36: 2022
418.		Internal fire exposure	UL 1973 Cl. no.37: 2022
419.		Marking	UL 1973 Cl. no.38: 2022
420.	Lead Acid Batteries for Electrical Road Vehicles	Cycle endurance test	IS 13514 Cl. 8.13: 2015
421.		Capacity test	IS 13514 Cl. 8.10: 2015
422.		Charge retention test	IS 13514 Cl. 8.11: 2015
423.		Test for high rate discharge	IS 13514 Cl.8.12: 2015
424.		Air pressure test	IS 13514 Cl. 8.9: 2015
425.		Verification of dimensions	IS 13514 Cl.8.7: 2015
426.		Visual examination	IS 13514 Cl.8.6: 2015
427.	Lead Acid Storage Batteries	Capacity test	IS 8320 Cl. 12.7: 2000

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cells and Batteries		
428.		Test for loss of capacity on Storage	IS 8320 Cl. 12.8: 2000
429.		Test for ampere-hour and watt-hour efficiency	IS 8320 Cl. 12.9: 2000
430.		Air pressure test	IS 8320 Cl. 12.6: 2000
431.		Test for high-rate discharge (HRD) at normal temperature	IS 8320 Cl. 12.10: 2000
432.		Test for high-rate discharge (HRD) at low temperature	IS 8320 Cl. 12.11: 2000
433.		Test for resistance to overcharge	IS 8320 Cl. 12.12: 2000
434.		Test for voltages during discharge	IS 8320 Cl. 12.13: 2000
435.		Life test and endurance test	IS 8320 Cl. 12.14: 2000
436.		Vibration test	IS 8320 Cl. 12.15: 2000
437.		Bump test	IS 8320 Cl. 12.16: 2000
438.		Storage	IS 8320 Cl. 12.17: 2000

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
1.	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 21 Stationary Storage Type Electric Water Heaters (Second revision)	General requirements	IS 302-2-21 Cl. 4:2018
2.		General requirements	IEC 60335-2-21:2022
3.		General conditions for the tests	IS 302-2-21:2018 Cl. 5
4.		General conditions for the tests	IEC 60335-2-21:2022
5.		Classification	IS 302-2-21:2018 Cl. 6
6.		Classification	IEC 60335-2-21:2022
7.		Marking / Marking & Instructions	IS 302-2-21:2018 Cl. 7
8.		Marking / Marking & Instructions	IEC 60335-2-21:2022
9.		Protection against electric shock /protection against access to live parts	IS 302-2-21:2018 Cl. 8
10.		Protection against electric shock /protection against access to live parts	IEC 60335-2-21 :2022
11.		Input and current /power input and current	IS 302-2-21:2018 Cl.10
12.		Input and current /power input and current	IEC 60335-2-21: 2022
13.		Temperature Rise /Heating	IS 302-2-21:2018 Cl. 11

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
14.		Temperature Rise /Heating	IEC 60335-2-21: 2022
15.		Electrical insulation and leakage current at operating temperature / leakage current and electric strength at operating temperature	IS 302-2-21:2018 Cl. 13
16.		Electrical insulation and leakage current at operating temperature / leakage current and electric strength at operating temperature	IEC 60335-2-21: 2022
17.		Transient over voltage test	IS 302-2-21:2018 Cl.14
18.		Transient over voltage test	IEC 60335-2-21: 2022
19.		Moisture resistance	IS 302-2-21:2018 Cl. 15
20.		Moisture resistance	IEC 60335-2-21: 2022
21.		(After humidity treatment)/leakage current and electric strength	IS 302-2-21:2018 Cl. 16
22.		(After humidity treatment)/leakage current and electric strength	IEC 60335-2-21: 2022
23.		Overload protection of transformers and associated circuits/overload protection	IS 302-2-21:2018 Cl. 17

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
24.		Overload protection of transformers and associated circuits/overload protection	IEC 60335-2-21: 2022
25.		Abnormal operation	IS 302-2-21:2018 Cl. 19
26.		Abnormal operation	IEC 60335-2-21 :2022
27.		Stability and mechanical hazards	IS 302-2-21:2018 Cl. 20
28.		Stability and mechanical hazards	IEC 60335-2-21: 2022
29.		Mechanical Strength	IS 302-2-21:2018 Cl. 21
30.		Mechanical Strength	IEC 60335-2-21: 2022
31.		Construction	IS 302-2-21:2018 Cl. 22
32.		Construction	IEC 60335-2-21: 2022
33.		Internal wiring	IS 302-2-21:2018 Cl. 23
34.		Internal wiring	IEC 60335-2-21: 2022
35.		Components	IS 302-2-21:2018 Cl. 24
36.		Components	IEC 60335-2-21: 2022
37.		Supply connection & external flexible cables & cords / supply connection & external flexible cords	IS 302-2-21:2018 Cl. 25

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
38.		Supply connection & external flexible cables & cords / supply connection & external flexible cords	IEC 60335-2-21: 2022
39.		Terminals for external conductors	IS 302-2-21:2018 Cl. 26
40.		Terminals for external conductors	IEC 60335-2-21: 2022
41.		Provision for earthing	IS 302-2-21:2018 Cl. 27
42.		Provision for earthing	IEC 60335-2-21: 2022
43.		Screws and connections	IS 302-2-21:2018 Cl. 28
44.		Screws and connections	IEC 60335-2-21: 2022
45.		Clearance and creepage distances	IS 302-2-21:2018 Cl. 29
46.		Clearance and creepage distances	IEC 60335-2-21: 2022
47.		Resistance to heat and Fire	IS 302-2-21:2018 Cl. 30
48.		Resistance to heat and Fire	IEC 60335-2-21: 2022
49.		Resistance to Rusting	IS 302-2-21:2018 Cl. 31
50.		Resistance to Rusting	IEC 60335-2-21: 2022
51.		Radiation toxicity and similar hazards	IS 302-2-21:2018 Cl. 32
52.		Radiation toxicity and similar hazards	IEC 60335-2-21: 2022

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
53.	Stationary Storage Type Electric Water Heaters- specification (Fifth revision)	General Requirement	Cl.4 IS 2082: 2018
54.		General conditions for the tests	Cl. 5 IS 2082: 2018
55.		Classification	Cl. 6 IS 2082: 2018
56.		Marking and Instructions	Cl. 7 IS 2082: 2018
57.		Safety Requirements	Cl. 8 IS 2082: 2018
58.		General conditions for Measurements	Cl. 9 IS 2082: 2018
59.		Mounting of the water heater	Cl. 10 IS 2082: 2018
60.		Measurements of stored water Temperature	Cl. 11 IS 2082: 2018
61.		Thermostat setting	Cl. 12 IS 2082: 2018
62.		Measurement of Energy consumption	Cl. 13 IS 2082: 2018
63.		Verification of the Rated Capacity	IS 2082: 2018 Cl. 14
64.		Standing loss per 24 hours	IS 2082: 2018 Cl. 15
65.		Hot water output	IS 2082: 2018 Cl. 16
66.		Reheating time	IS 2082: 2018 Cl. 17
67.		Mixing factor	IS 2082: 2018 Cl. 18
68.		Deviation from dial calibration	IS 2082: 2018 Cl. 19
69.		Cyclic temperature variation	IS 2082: 2018 Cl. 20

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
70.		Finish	IS 2082: 2018 Cl. 21
71.	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 35 Electric Instantaneous Water Heaters (Second Revision)	General requirements	IS 302-2-35:2017 Cl. 4
72.		General requirements	IEC 60335-2-35 :2012
73.		General conditions for the tests	IS 302-2-35:2017 Cl. 5
74.		General requirements	IEC 60335-2-35 :2012
75.		Classification	IS 302-2-35:2017 Cl. 6
76.		Classification	IEC 60335-2-35 :2012
77.		Marking / Marking & Instructions	IS 302-2-35:2017 Cl. 7
78.		Marking / Marking & Instructions	IEC 60335-2-35:2012
79.		Protection against electric shock/protection against access to live parts	IS 302-2-35:2017 Cl. 8
80.		Protection against electric shock/protection against access to live parts	IEC 60335-2-35:2012
81.		Input and current/power input and current	IS 302-2-35:2017 Cl. 10
82.		Input and current/power input and current	IEC 60335-2-35:2012
83.		Temperature rise/heating	IS 302-2-35:2017 Cl. 11

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
84.		Temperature rise/heating	IEC 60335-2-35:2012
85.		Electrical insulation and leakage current at operating temperature/leakage current and electric strength at operating temperature	IS 302-2-35:2017 Cl. 13
86.		Electrical insulation and leakage current at operating temperature/leakage current and electric strength at operating temperature	IEC 60335-2-35:2012
87.		Transient over voltage test	IS 302-2-35:2017 Cl. 14
88.		Transient over voltage test	IEC 60335-2-35:2012
89.		Moisture Resistance	IS 302-2-35:2017 Cl.15
90.		Moisture Resistance	IEC 60335-2-35:2012
91.		(After humidity treatment)/leakage current and electric strength	IS 302-2-35:2017 Cl.16
92.		(After humidity treatment)/leakage current and electric strength	IEC 60335-2-35:2012
93.		Overload protection of transformers and associated circuits/overload protection	IS 302-2-35:2017 Cl.17

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
94.		Overload protection of transformers and associated circuits/overload protection	IEC 60335-2-35:2012
95.		Abnormal operation	IS 302-2-35:2017 Cl.19
96.		Abnormal operation	IEC 60335-2-35:2012
97.		Stability and mechanical hazards	IS 302-2-35:2017 Cl.20
98.		Stability and mechanical hazards	IEC 60335-2-35:2012
99.		Mechanical Strength	IS 302-2-35:2017 Cl.21
100.		Mechanical Strength	IEC 60335-2-35:2012
101.		Construction	IS 302-2-35:201 Cl.22
102.		Construction	IEC 60335-2-35:2012
103.		Internal wiring	IS 302-2-35:2017 Cl.23
104.		Internal wiring	IEC 60335-2-35:2012
105.		Components	IS 302-2-35:2017 Cl.24
106.		Components	IEC 60335-2-35:2012
107.		Supply connection & external flexible cables & cords/ supply connection & external flexible cords	IS 302-2-35:2017 Cl.25

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
108.		Supply connection & external flexible cables & cords/ supply connection & external flexible cords	IEC 60335-2-35:2012
109.		Terminals for external conductors	IS 302-2-35:2017 Cl.26
110.		Terminals for external conductors	IEC 60335-2-35:2012
111.		Provision for earthing	IS 302-2-35:2017 Cl.27
112.		Provision for earthing	IEC 60335-2-35:2012
113.		Screws And Connections	IS 302-2-35:2017 Cl.28
114.		Screws And Connections	IEC 60335-2-35:2012
115.		Clearance and creepage distances	IS 302-2-35:2017 Cl.29
116.		Clearance and creepage distances	IEC 60335-2-35:2012
117.		Resistance to heat and fire	IS 302-2-35:2017 Cl.30
118.		Resistance to heat and fire	IEC 60335-2-35:2012
119.		Resistance to rusting	IS 302-2-35:2017 Cl.31
120.		Resistance to rusting	IEC 60335-2-35:2012
121.		Radiation toxicity and similar hazards	IS 302-2-35:2017 Cl.32

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
122.		Radiation toxicity and similar hazards	IEC 60335-2-35:2012
123.	Electric Instantaneous Water Heaters	Finish test	IS 8978 Cl. 10: 1992
124.		Operation of flow switch	IS 8978 Cl. 11: 1992
125.		Endurance test	IS 8978 Cl. 12: 1992
126.	Safety of household and similar electrical appliances: part 2 particular requirements, section 201 electric immersion water heater	General requirement	IS 302-2-201 Cl. 4:2008
127.		General requirement	IEC 60335-2-74: 2021
128.		General Condition for the tests	IS 302-2-201 Cl. 5:2008
129.		General Condition for the tests	IEC 60335-2-74: 2021
130.		Classification	IS 302-2-201 Cl. 6:2008
131.		Classification	IEC 60335-2-74: 2021
132.		Marking & Instructions	IS 302-2-201 Cl. 7:2008
133.		Marking & Instructions	IEC 60335-2-74: 2021
134.		Protection against electric shock/ Protection against access to live Parts	IS 302-2-201 Cl. 8:2008
135.		Protection against electric shock/ Protection against access to live Parts	IEC 60335-2-74: 2021
136.		Power input and current	IS 302-2-201 Cl. 10:2008
137.		Power input and current	IEC 60335-2

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
			74:2021A1:2006+A2:2009
138.		Heating	IS 302-2-201 Cl. 11:2008
139.		Heating	IEC 60335-2-74: 2021
140.		Leakage current and electric strength at operating temperature	IS 302-2-201 Cl. 13:2008
141.		Leakage current and electric strength at operating temperature	IEC 60335-2-74: 2021
142.		Transient over voltage test	IS 302-2-201 Cl. 14:2008
143.		Transient over voltage test	IEC 60335-2-74: 2021
144.		Moisture Resistance	IS 302-2-201 Cl.15:2008
145.		Moisture Resistance	IEC 60335-2-74: 2021
146.		(After humidity treatment)/leakage current and electric strength	IS 302-2-201 Cl. 16:2008
147.		(After humidity treatment)/leakage current and electric strength	IEC 60335-2-74: 2021
148.		Overload protection of transformers and associated circuits/overload protection	IS 302-2-201 Cl. 17:2008

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
149.		Overload protection of transformers and associated circuits/overload protection	IEC 60335-2-74: 2021
150.		Endurance	IS 302-2-201 Cl. 18:2008
151.		Endurance	IEC 60335-2-74: 2021
152.		Abnormal Operation	IS 302-2-201 Cl. 19:2008
153.		Abnormal Operation	IEC 60335-2-74: 2021
154.		Stability and mechanical hazards	IS 302-2-201 Cl. 20:2008
155.		Stability and mechanical hazards	IEC 60335-2-74: 2021
156.		Mechanical Strength	IS 302-2-201 Cl. 21:2008
157.		Mechanical Strength	IEC 60335-2-74: 2021
158.		Construction	IS 302-2-201 Cl. 22:2008
159.		Construction	IEC 60335-2-74: 2021
160.		Internal wiring	IS 302-2-201 Cl. 23:2008
161.		Internal wiring	IEC 60335-2-74: 2021
162.		Components	IS 302-2-201 Cl. 24:2008
163.		Components	IEC 60335-2-74: 2021
164.		Supply Connections and External Flexible Cords	IS 302-2-201 Cl. 25:2008

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
165.		Supply Connections and External Flexible Cords	IEC 60335-2-74: 2021
166.		Terminals for external conductors	IS 302-2-201 Cl. 26:2008
167.		Terminals for external conductors	IEC 60335-2-74: 2021
168.		Provisions for earthing	IS 302-2-201 Cl. 27:2008
169.		Provisions for earthing	IEC 60335-2-74: 2021
170.		Screws and connections	IS 302-2-201 Cl. 28:2008
171.		Screws and connections	IEC 60335-2-74: 2021
172.		Clearances, creepage distances and solid insulation	IS 302-2-201 Cl. 29:2008
173.		Clearances, creepage distances and solid insulation	IEC 60335-2-74: 2021
174.		Resistance to heat, fire and tracking	IS 302-2-201 Cl. 30:2008
175.		Resistance to heat, fire and tracking	IEC 60335-2-74: 2021
176.		Resistance to rusting	IS 302-2-201 Cl. 31:2008
177.		Resistance to rusting	IEC 60335-2-74: 2021
178.		Radiation, toxicity and similar hazards	IS 302-2-201 Cl. 32:2008

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
179.		Radiation, toxicity and similar hazards	IEC 60335-2-74: 2021
180.	Electric Immersion Water Heaters- Specification	General requirement	IS 368 Cl.4: 2014
181.		General requirement	IS 368 Cl.5: 2014
182.		Classification	IS 368 Cl.6: 2014
183.		Marking / Marking & Instructions	IS 368 Cl. 7: 2014
184.		Protection against electric shock/ protection against access to live Parts	IS 368 Cl. 8: 2014
185.		Power Input and Current	IS 368 Cl. 10: 2014
186.		Heating	IS 368 Cl. 11:2014
187.		Operation under overload conditions of appliances with heating elements	IS 368 Cl. 12:2014
188.		Electrical insulation and leakage current at operating temperature / leakage current and electric strength at operating temperature	IS 368 Cl. 13:2014
189.		Transient Over Voltage Test	IS 368 Cl. 14:2014
190.		Moisture Resistance	IS 368 Cl.15:2014

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
191.		(After humidity treatment)/leakage current and electric strength	IS 368 Cl. 16:2014
192.		Overload protection of transformers and associated circuits/overload protection	IS 368 Cl. 17:2014
193.		Endurance	IS 368 Cl. 18:2014
194.		Abnormal Operation	IS 368 Cl. 19:2014
195.		Stability and mechanical hazards	IS 368 Cl. 20:2014
196.		Mechanical Strength	IS 368 Cl. 21:2014
197.		Construction	IS 368 Cl. 22:2014
198.		Internal wiring	IS 368 Cl. 23:2014
199.		Components	IS 368 Cl. 24:2014
200.		Supply connections and external flexible cords	IS 368 Cl. 25:2014
201.		Terminals for external conductors	IS 368 Cl. 26:2014
202.		Provision for earthing	IS 368 Cl. 27:2014
203.		Screws and connections	IS 368 Cl. 28:2014

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
204.		Clearances, creepage distances and solid insulation	IS 368 Cl. 29:2014
205.		Resistance to heat, fire and tracking	IS 368 Cl. 30:2014
206.		Resistance to rusting	IS 368 Cl. 31:2014
207.		Radiation, toxicity and similar hazards	IS 368 Cl. 32:2014
208.	Safety of household and similar electrical appliances: Part 1 General Requirements	General requirement	IS 302-1 Cl. 4: 2008
209.		General requirement	IEC:60335-1: 2020
210.		General conditions for the tests	IS 302-1 Cl. 5: 2008
211.		General conditions for the tests	IEC:60335-1: 2020
212.		Classification	IS 302-1 Cl. 6:2008
213.		Classification	IEC:60335-1: 2020
214.		Marking & Instructions	IS 302-1 Cl. 7:2008
215.		Marking & Instructions	IEC:60335-1: 2020
216.		Protection against access to live parts	IS 302-1 Cl. 8:2008
217.		Protection against access to live parts	IEC:60335-1: 2020
218.		Starting of motor-operated appliances	IS 302-1 Cl. 9:2008

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
219.		Starting of motor-operated appliances	IEC:60335-1: 2020
220.		Power input and current	IS 302-1 Cl. 10:2008
221.		Power input and current	IEC:60335-1: 2020
222.		Heating	IS 302-1 Cl. 11:2008
223.		Heating	IEC:60335-1: 2020
224.		Leakage current and electric strength at operating temperature	IS 302-1 Cl. 13:2008
225.		Leakage current and electric strength at operating temperature	IEC:60335-1: 2020
226.		Transient over voltage test	IS 302-1 Cl. 14:2008
227.		Transient over voltage test	IEC:60335-1: 2020
228.		Moisture resistance	IS 302-1 Cl. 15:2008
229.		Moisture resistance	IEC:60335-1: 2020
230.		Leakage current and electric strength	IS 302-1 Cl. 16:2008
231.		Leakage current and electric Strength	IEC:60335-1: 2020

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
232.		Overload protection of transformers and associated circuits	IS 302-1 Cl. 17:2008
233.		Overload protection of transformers and associated circuits	IEC:60335-1: 2020
234.		Endurance	IS 302-1 Cl. 18:2008
235.		Endurance	IEC:60335-1: 2020
236.		Abnormal operation	IS 302-1 Cl. 19:2008
237.		Abnormal operation	IEC:60335-1: 2020
238.		Stability and mechanical hazards	IS 302-1 Cl. 20:2008
239.		Stability and mechanical hazards	IEC:60335-1: 2020
240.		Mechanical strength	IS 302-1 Cl. 21:2008
241.		Mechanical strength	IEC:60335-1: 2020
242.		Construction	IS 302-1 Cl. 22:2008
243.		Construction	IEC:60335-1: 2020
244.		Internal wiring	IS 302-1 Cl. 23:2008
245.		Internal wiring	IEC:60335-1: 2020
246.		Components	IS 302-1 Cl. 24:2008

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
247.		Components	IEC:60335-1: 2020
248.		Supply connections and external flexible cords	IS 302-1 Cl. 25:2008
249.		Supply connections and external flexible cords	IEC:60335-1: 2020
250.		Terminals for external conductors	IS 302-1 Cl.26:2008
251.		Terminals for external conductors	IEC:60335-1: 2020
252.		Provision for earthing	IS 302-1 Cl. 27:2008
253.		Provision for earthing	IEC:60335-1: 2020
254.		Screws and connections	IS 302-1 Cl. 28:2008
255.		Screws and connections	IEC:60335-1: 2020
256.		Clearances, creepage distances and solid insulation	IS 302-1 Cl. 29:2008
257.		Clearances, creepage distances and solid insulation	IEC:60335-1: 2020
258.		Resistance to heat and fire	IS 302-1 Cl. 30:2008
259.		Resistance To heat and fire	IEC:60335-1: 2020
260.		Resistance to rusting	IS 302-1 Cl. 31:2008
261.		Resistance to rusting	IEC:60335-1: 2020

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
262.		Radiation, toxicity and similar hazards	IS 302-1 Cl. 32:2008
263.		Radiation, toxicity and similar hazards	IEC:60335-1: 2020
264.	Safety of Household and Similar Electrical	General Requirement	IS 302-2-6 Cl. 4:2009
265.		General Requirement	IEC 60335-2-6:2014
266.		General conditions for the tests	IS 302-2-6 Cl. 5: 2009
267.		General conditions for the tests	IEC 60335-2-6:2014
268.	Appliances: Part 2 Particular Requirements, Section 6 Cooking Ranges, Hobs, Ovens and Similar Appliances	Classification	IS 302-2-6 Cl. 6:2009
269.		Classification	IEC 60335-2-6:2014
270.		Marking / Marking & Instructions	IS 302-2-6 Cl. 7:2009
271.		Marking / Marking & Instructions	IEC 60335-2-6:2014
272.		Protection against electric shock/ protection against access to live parts	IS 302-2-6 Cl. 8:2009
273.		Protection against electric shock/ protection against access to live parts	IEC 60335-2-6:2014

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
274.		Starting of motor-operated appliances	IS 302-2-6 Cl. 9:2009
275.		Starting of motor-operated appliances	IEC 60335-2-6:2014
276.		Power input and current	IS 302-2-6 Cl. 10:2009
277.		Power input and current	IEC 60335-2-6:2014
278.		Heating	IS 302-2-6 Cl. 11:2009
279.		Heating	IEC 60335-2-6:2014
280.		Electrical insulation and leakage current at operating temperature / leakage current and electric strength at operating temperature	IS 302-2-6 Cl. 13:2009
281.		Electrical insulation and leakage current at operating temperature / leakage current and electric strength at operating temperature	IEC 60335-2-6:2014
282.		Transient over voltage test	IS 302-2-6 Cl. 14:2009
283.		Transient over voltage test	IEC 60335-2-6:2014
284.		Moisture resistance	IS 302-2-6 Cl. 15:2009
285.		Moisture resistance	IEC 60335-2-6:2014

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
286.		(After humidity treatment)/leakage current and electric strength	IS 302-2-6 Cl. 16:2009
287.		(After humidity treatment)/leakage current and electric strength	IEC 60335-2-6:2014
288.		Overload protection of transformers and associated circuits/overload protection	IS 302-2-6 Cl. 17:2009
289.		Overload protection of transformers and associated circuits/overload protection	IEC 60335-2-6:2014
290.		Abnormal operation	IS 302-2-6 Cl. 19:2009
291.		Abnormal operation	IEC 60335-2-6:2014
292.		Stability and mechanical hazards	IS 302-2-6 Cl. 20:2009
293.		Stability and mechanical hazards	IEC 60335-2-6:2014
294.		Mechanical strength	IS 302-2-6 Cl. 21:2009
295.		Mechanical Strength	IEC 60335-2-6:2014
296.		Construction	IS 302-2-6 Cl. 22:2009
297.		Construction	IEC 60335-2-6:2014
298.		Internal wiring	IS 302-2-6 Cl. 23:2009

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
299.		Internal wiring	IEC 60335-2-6:2014
300.		Components	IS 302-2-6 Cl. 24:2009
301.		Components	IEC 60335-2-6:2014
302.		Supply connections and external flexible cords	IS 302-2-6 Cl. 25:2009
303.		Supply connections and external flexible cords	IEC 60335-2-6:2014
304.		Terminals for external conductors	IS 302-2-6 Cl.26:2009
305.		Terminals for external conductors	IEC 60335-2-6:2014
306.		Provision for earthing	IS 302-2-6 Cl. 27:2009
307.		Provision for earthing	IEC 60335-2-6:2014
308.		Screws and connections	IS 302-2-6 Cl. 28:2009
309.		Screws and connections	IEC 60335-2-6:2014
310.		Clearances, creepage distances and solid insulation	IS 302-2-6 Cl. 29:2009
311.		Clearances, creepage distances and solid insulation	IEC 60335-2-6:2014
312.		Resistance to heat, fire and tracking	IS 302-2-6 Cl. 30:2009
313.		Resistance to heat, fire and tracking	IEC 60335-2-6:2014

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
314.		Resistance to rusting	IS 302-2-6 Cl. 31:2009
315.		Resistance to rusting	IEC 60335-2-6:2014
316.		Radiation, toxicity and similar hazards	IS 302-2-6 Cl. 32:2009
317.		Radiation, toxicity and similar hazards	IEC 60335-2-6:2014
318.	Safety of Household and Similar Electrical Appliances: Part 2 Particular Requirements: Section 15 Appliances for Heating Liquids	General requirements	IS 302-2-15 Cl. 4:2009
319.		General requirements	IEC 60335-2-15:2012
320.		General conditions for the tests	IS 302-2-15 Cl. 5:2009
321.		General conditions for the tests	IEC 60335-2-15:2012
322.		Classification	IS 302-2-15 Cl. 6:2009
323.		Classification	IEC 60335-2-15:2012
324.		Marking / Marking & Instructions	IS 302-2-15 Cl. 7:2009
325.		Marking / Marking & Instructions	IEC 60335-2-15:2012
326.		Protection against electric shock/ protection against access to live parts	IS 302-2-15 Cl. 8:2009
327.		Protection against electric shock/ protection against access to live parts	IEC 60335-2-15:2012

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
328.		Starting of motor-operated appliances	IS 302-2-15 Cl. 9:2009
329.		Starting of motor-operated appliances	IEC 60335-2-15:2012
330.		Power input and current	IS 302-2-15 Cl. 10:2009
331.		Power input and current	IEC 60335-2-15:2012
332.		Heating	IS 302-2-15 Cl. 11:2009
333.		Heating	IEC 60335-2-15:2012
334.		Leakage current at operating temperature / leakage current and electric strength at operating temperature	IS 302-2-15 Cl. 13:2009
335.		Leakage current at operating temperature / leakage current and electric strength at operating temperature	IEC 60335-2-15:2012
336.		Transient over voltage test	IS 302-2-15 Cl. 14:2009
337.		Transient over voltage test	IEC 60335-2-15:2012
338.		Moisture resistance	IS 302-2-15 Cl. 15:2009
339.		Moisture resistance	IEC 60335-2-15:2012
340.		Leakage current and electric strength	IS 302-2-15 Cl. 16:2009

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
341.		Leakage Current and Electric Strength	IEC 60335-2-15:2012
342.		Overload protection of transformers and associated circuits/overload protection	IS 302-2-15 Cl. 17:2009
343.		Overload protection of transformers and associated circuits/overload protection	IEC 60335-2-15:2012
344.		Abnormal Operation	IS 302-2-15 Cl. 19:2009
345.		Abnormal Operation	IEC 60335-2-15:2012
346.		Stability and mechanical Hazards	IS 302-2-15 Cl. 20:2009
347.		Stability and mechanical Hazards	IEC 60335-2-15:2012
348.		Mechanical Strength	IS 302-2-15 Cl. 21:2009
349.		Mechanical Strength	IEC 60335-2-15:2012
350.		Construction	IS 302-2-15 Cl. 22:2009
351.		Construction	IEC 60335-2-15:2012
352.		Internal wiring	IS 302-2-15 Cl. 23:2009
353.		Internal wiring	IEC 60335-2-15:2012
354.		Components	IS 302-2-15 Cl. 24:2009

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
355.		Components	IEC 60335-2-15:2012
356.		Supply connections and external flexible cords	IS 302-2-15 Cl. 25:2009
357.		Supply connections and external flexible cords	IEC 60335-2-15:2012
358.		Terminals for external conductors	IS 302-2-15 Cl.26:2009
359.		Terminals for external conductors	IEC 60335-2-15:2012
360.		Provision for earthing	IS 302-2-15 Cl. 27:2009
361.		Provision for earthing	IEC 60335-2-15:2012
362.		Screws and connections	IS 302-2-15 Cl. 28:2009
363.		Screws and connections	IEC 60335-2-15:2012
364.		Clearances, creepage distances and solid insulation	IS 302-2-15 Cl. 29:2009
365.		Clearances, Creepage Distances and Solid Insulation	IEC 60335-2-15:2012
366.		Resistance to heat, fire and tracking	IS 302-2-15 Cl. 30:2009
367.		Resistance to heat, fire and tracking	IEC 60335-2-15:2012
368.		Resistance to rusting	IS 302-2-15 Cl. 31:2009

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Domestic Electrical Appliances		
369.		Resistance to rusting	IEC 60335-2-15:2012
370.		Radiation, toxicity and similar hazards	IS 302-2-15 Cl. 32:2009
371.		Radiation, toxicity and similar hazards	IEC 60335-2-15:2012

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Lamp, Luminaries & Accessories		
1.	Self - Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	General requirement and generaltest requirements	IS 16102 (Part 1) Cl. 4: 2012
2.		Marking	IS 16102 (Part 1) Cl. 5: 2012
3.		Interchangeability	IS 16102 (Part 1) Cl. 6: 2012
4.		Protection Against Accidental Contacts with Live Parts	IS 16102 (Part 1) Cl. 7: 2012
5.		Insulation Resistance and electric Strength	IS 16102 (Part 1) Cl. 8: 2012
6.		Mechanical Strength	IS 16102 (Part 1) Cl. 9: 2012
7.		CAP Temperature Rise	IS 16102 (Part 1) Cl. 10: 2012
8.		Resistance to Heat	IS 16102 (Part 1) Cl. 11: 2012
9.		Resistance to Flame and Ignition	IS 16102 (Part 1) Cl. 12: 2012
10.		Fault Condition	IS 16102 (Part 1) Cl. 13: 2012
11.		Creepage Distances and Clearances	IS 16102 (Part 1) Cl. 14: 2012
12.		General requirements	IS 15885 (Part 2, Sec13) Cl. 4:2012
13.		General requirements	IEC 61347-2-13 Cl. 4: 2014
14.	Safety of Lamp Control gear Part 2 Particular Requirements	Classification	IS 15885 (Part 2, Sec13) Cl. 6:2012
15.		Classification	IEC 61347-2-13 Cl. 6: 2014

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	Lamp, Luminaries & Accessories		
16.	Section 13 D.C. Supplied Electronic Control gear for LED Modules	Marking	IS 15885 (Part 2, Sec13) Cl. 7:2012
17.		Marking	IEC 61347-2-13 Cl. 7: 2014
18.		Protection Against Accidental Contact with Live Parts	IS 15885 (Part 2, Sec13) Cl. 8:2012
19.		Protection Against Accidental Contact with Live Parts	IEC 61347-2-13 Cl. 8: 2014
20.		Terminals	IS 15885 (Part 2, Sec13) Cl. 9:2012
21.		Terminals	IEC 61347-2-13 Cl. 9: 2014
22.		Provisions for Protective Earthing	IS 15885 (Part 2, Sec13) Cl. 10:2012
23.		Provisions for Protective Earthing	IEC 61347-2-13 Cl. 10: 2014
24.		Moisture Resistance and Insulation	IS 15885 (Part 2, Sec13) Cl. 11:2012
25.		Moisture Resistance and Insulation	IEC 61347-2-13 Cl. 11: 2014
26.		Electric Strength	IS 15885 (Part 2, Sec13) Cl. 12:2012
27.		Electric Strength	IEC 61347-2-13 Cl. 12: 2014
28.		Fault Conditions	IS 15885 (Part 2, Sec13) Cl. 14:2012
29.		Fault Conditions	IEC 61347-2-13 Cl. 14: 2014

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	Lamp, Luminaries & Accessories		
30.		Transformer Heating	IS 15885 (Part 2, Sec 13) Cl. 15:2012
31.		Transformer Heating	IEC 61347-2-13 Cl. 15: 2014
32.		Construction	IS 15885 (Part 2, Sec 13) Cl. 16:2012
33.		Construction	IEC 61347-2-13 Cl. 16: 2014
34.		Creepage Distances and Clearances	IS 15885 (Part 2, Sec 13) Cl. 17:2012
35.		Creepage Distances and Clearances	IEC 61347-2-13 Cl. 17: 2014
36.		Screws, Current- Carrying Parts and Connection	IS 15885 (Part 2, Sec13) Cl. 18:2012
37.		Screws, Current- Carrying Parts and Connection	IEC 61347-2-13 Cl. 18: 2014
38.		Resistance to Heat, Fire and Tracking	IS 15885 (Part 2, Sec13) Cl. 19:2012
39.		Resistance to Heat, Fire and Tracking	IEC 61347-2-13 Cl. 19: 2014
40.		Resistance to Corrosion	IS 15885 (Part 2, Sec 13) Cl. 20:2012
41.		Resistance to Corrosion	IEC 61347-2-13 Cl. 20: 2014
42.	Luminaires: Part 5 Particular requirements Sec 1 General	General test requirements	IS 10322 (Part 5/Sec 1) Cl. 4: 2012

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Lamp, Luminaries & Accessories		
43.	purpose luminaires	General test requirements	IEC 60598-2-1 Cl. 1.3: 2020
44.		Classification of Luminaries	IS 10322 (Part 5/Sec 1) Cl. 5: 2012
45.		Classification of Luminaries	IEC 60598-2-1 Cl. 1.4: 2020
46.		Marking	IS 10322 (Part 5/Sec 1) Cl. 6: 2012
47.		Marking	IEC 60598-2-1 Cl. 1.5: 2020
48.		Construction	IS 10322 (Part 5/Sec 1) Cl. 7: 2012
49.		Construction	IEC 60598-2-1 Cl. 1.6: 2020
50.		Creepage distance and clearance	IS 10322 (Part 5/Sec 1) Cl. 8: 2012
51.		Creepage distance and clearance	IEC 60598-2-1 Cl. 1.7: 2020
52.		Provision for earthing	IS 10322 (Part 5/Sec 1) Cl. 9: 2012
53.		Provision for earthing	IEC 60598-2-1 Cl. 1.8: 2020
54.		Terminals	IS 10322 (Part 5/Sec 1) Cl. 10: 2012
55.		Terminals	IEC 60598-2-1 Cl. 1.9: 2020
56.		External and internal wiring	IS 10322 (Part 5/Sec 1) Cl. 11: 2012
57.		External and internal wiring	IEC 60598-2-1 Cl. 1.10: 2020
58.		Protection against electric shock	IS 10322 (Part 5/Sec 1) Cl. 12: 2012

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	Lamp, Luminaries & Accessories		
59.		Protection against electric shock	IEC 60598-2-1 Cl. 1.11: 2020
60.		Endurance test and thermal test	IS 10322 (Part 5/Sec 1) Cl. 13: 2012
61.		Endurance test and thermal test	IEC 60598-2-1 Cl. 1.12: 2020
62.		Resistance to dust and moisture	IS 10322 (Part 5/Sec 1) Cl. 14: 2012
63.		Resistance to dust and moisture	IEC 60598-2-1 Cl. 1.13: 2020
64.		Insulation Resistance and Electric Strength	IS 10322 (Part 5/Sec 1) Cl. 15: 2012
65.		Insulation Resistance and Electric Strength	IEC 60598-2-1 Cl. 1.14: 2020
66.		Resistance to Heat, Fire and Tracking	IS 10322 (Part 5/Sec 1) Cl. 16: 20
67.		Resistance to Heat, Fire and Tracking	IEC 60598-2-1 Cl. 1.15: 2020
68.	Luminaires Part 5 Particular Requirements Section 6 Handlamps	General test requirements	IS 10322 (Part 5/Sec 6) Cl. 5: 2013
69.		General test requirements	IEC 60598-2-8 Cl. 8.4: 2013
70.		Classification of luminaries	IS 10322 (Part 5/Sec 6) Cl. 5: 2013
71.		Classification of luminaries	IEC 60598-2-8 Cl. 8.5: 2013
72.		Marking	IS 10322 (Part 5/Sec 6) Cl. 6: 2013

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Lamp, Luminaries & Accessories		
73.		Marking	IEC 60598-2-8 Cl. 8.6: 2013
74.		Construction	IS 10322 (Part 5/Sec 6) Cl. 7: 2013
75.		Construction	IEC 60598-2-8 Cl. 8.7: 2013
76.		Creepage distance and clearance	IS 10322 (Part 5/Sec 6) Cl. 8: 2013
77.		Creepage distance and clearance	IEC 60598-2-8 Cl. 8.8: 2013
78.		Provision for earthing	IS 10322 (Part 5/Sec 6) Cl. 9: 2013
79.		Provision for earthing	IEC 60598-2-8 Cl. 8.9: 2013
80.		Terminals	IS 10322 (Part 5/Sec 6) Cl. 10: 2013
81.		Terminals	IEC 60598-2-8 Cl. 8.10: 2013
82.		External and internal wiring	IS 10322 (Part 5/Sec 6) Cl. 11: 2013
83.		External and internal wiring	IEC 60598-2-8 Cl. 8.11: 2013
84.		Protection against electric shock	IS 10322 (Part 5/Sec 6) Cl. 12: 2013
85.		Protection against electric shock	IEC 60598-2-8 Cl. 8.12: 2013
86.		Endurance test and thermal test	IS 10322 (Part 5/Sec 6) Cl. 13: 2013
87.		Endurance test and thermal test	IEC 60598-2-8 Cl. 8.13: 2013

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Lamp, Luminaries & Accessories		
88.		Resistance to dust and moisture	IS 10322 (Part 5/Sec 6) Cl. 14: 2013
89.		Resistance to dust and moisture	IEC 60598-2-8 Cl. 8.14: 2013
90.		Insulation resistance and electric strength	IS 10322 (Part 5/Sec 6) Cl. 15: 2013
91.		Insulation resistance and electric strength	IEC 60598-2-8 Cl. 8.15: 2013
92.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 6) Cl. 16: 2013
93.		Resistance to heat, fire and tracking	IEC 60598-2-8 Cl. 8.16: 2013
94.	Luminaries Part 5 Particular Requirements Section 7 Lighting Chains	General test requirements	IS 10322 (Part 5/Sec 7) Cl. 20.4: 2017/ IEC 60598-2-20 Cl. 20.4: 2022
95.		Classification of Luminaries	IS 10322 (Part 5/Sec 7) Cl. 20.5: 2017/ IEC 60598-2-20 Cl. 20.5: 2022
96.		Marking	IS 10322 (Part 5/Sec 7) Cl. 20.6: 2017/ IEC 60598-2-20 Cl. 20.6: 2022
97.		Construction	IS 10322 (Part 5/Sec 7) Cl. 20.7: 2017/IEC 60598-2-20 Cl. 20.7: 2022

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Lamp, Luminaries & Accessories		
98.		Creepage Distance and Clearance	IS 10322 (Part 5/Sec 7) Cl. 20.8: 2017/ IEC 60598-2-20 Cl. 20.8: 2022
99.		Terminals	IS 10322 (Part5/Sec 7) Cl. 20.10, 2017/ IEC 60598-2-20 Cl. 20.10: 2022
100.		External And Internal Wiring	IS 10322 (Part 5/Sec 7) Cl. 20.11: 2017/ IEC 60598-2-20 Cl. 20.11: 2012
101.		Protection Against Electric Shock	IS 10322 (Part 5/Sec 7) Cl. 20.12: 2017/ IEC 60598-2-20 Cl. 20.12: 2022
102.		Endurance test and thermal test	IS 10322 (Part 5/Sec 7) Cl. 20.13: 2017/ IEC 60598-2-20 Cl. 20.13: 2022
103.		Resistance to dust, solid objects and moisture	IS 10322 (Part 5/Sec 7) Cl. 20.14: 2017 / IEC 60598-2-20 Cl. 20.14: 2022
104.		Insulation resistance and electric strength	IS 10322 (Part 5/Sec 7) Cl. 20.15: 2017/IEC 60598-2-20 Cl. 20.15: 2022
105.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 7) Cl. 20.16: 2017/ IEC 60598-2-20 Cl. 20.16: 2012

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Lamp, Luminaries & Accessories		
106.		Annex A (Requirements for interconnecting connectors for use in lighting chains)	IS 10322 (Part 5/Sec 7) Annex A.16: 2017/ IEC 60598-2-20 Annex A: 2022
107.	Luminaries Part 5 Particular Requirements Section 9 Rope Lights	General test requirements	IS 10322 (Part5/Sec 9) Cl. 21.4: 2017/IEC 60598-2-21 Cl. 21.4: 2014
108.		Classification of luminaries	IS 10322 (Part5/Sec 9) Cl. 21.5: 2017/ IEC 60598-2-21 Cl. 21.5: 2014
109.		Marking	IS 10322 (Part5/Sec 9) Cl. 21.6: 2017/ IEC 60598-2-21 Cl. 21.6: 2014
110.		Construction	IS 10322 (Part5/Sec 9) Cl. 21.7: 2017/ IEC 60598-2-21 Cl. 21.7: 2014
111.		Creepage distance and clearance	IS 10322 (Part5/Sec 9) Cl. 21.8: 2017/ IEC 60598-2-21 Cl. 21.8: 2014
112.		Terminals	IS 10322 (Part5/Sec 9) Cl. 21.10: 2017/ IEC 60598-2-21 Cl. 21.10: 2014
113.		External and internal wiring	IS 10322 (Part5/Sec 9) Cl. 21.11: 2017/ IEC 60598-2-21 Cl. 21.11: 2014

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Electrical Testing			
Sl. No.	Product (S) Material of Test	Specific Tests Performed	Test Method
	Lamp, Luminaries & Accessories		
114.		Protection against electric shock	IS 10322 (Part5/Sec 9) Cl. 21.12: 2017/ IEC 60598-2-21 Cl. 21.12: 2014
115.		Endurance test and thermal test	IS 10322 (Part5/Sec 9) Cl. 21.13: 2017/ IEC 60598-2-21 Cl. 21.13: 2014
116.		Resistance to dust, solid objects and moisture	IS 10322 (Part5/Sec 9) Cl. 21.14: 2017/ IEC 60598-2-21 Cl. 21.14: 2014
117.		Insulation resistance and electric strength	IS 10322 (Part5/Sec 9) Cl. 21.15: 2017/ IEC 60598-2-21 Cl. 21.15: 2014
118.		Resistance to Heat, Fire and Tracking	IS 10322 (Part5/Sec 9) Cl. 21.16: 2017/ IEC 60598-2-21 Cl. 21.16: 2014
119.		Test for Interconnecting connector for use in lighting chain	IS 10322 (Part5/Sec 9) Annex A. / IEC 60598-2-21 Annex A: 2014

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
1.	Electrical, electronic and other items	Bump Test	JSS 55555: 2020, Test no. 5
2.		Corrosion (Salt / Salt fog)	JSS 55555 2020 Test no.7 8 & 9
3.		Damp Heat	JSS 55555: 2020, Test no. 10
4.		Driving Rain	JSS 55555: 2020 Test no. 12
5.		Drop Test	JSS 55555: 2020 Test no. 13
6.		Dust Test	JSS 55555: 2020 Test no. 14
7.		Fine Mist	JSS 55555 :2020 Test no. 16
8.		High temperature	JSS 55555 :2020 Test no. 17
9.		Immersion test	JSS 55555: 2020 Test no.19
10.		Low temperature	JSS 55555 2020, Test no. 20
11.		Mould Growth	JSS 55555 2020, Test no. 21
12.		Rapid Temperature cycling (thermal shock)	JSS 55555 2020, Test No. 22
13.		Sealing test	JSS 55555: 2020 Test no. 23
14.		Shock test or impact	JSS 55555 2020 Test no. 24
15.		Toppling test	JSS 55555: 2020 Test no. 26
16.		Tropical exposure	JSS 55555: 2020 Test no. 27
17.		Vibration test	JSS 55555 2020 Test no. 28
18.		Corrosive atmosphere (salt mist)	JSS 50101: 1996 Test no.4

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
19.		Damp heat test (cyclic)	JSS 50101: 1996 Test no.5
20.		Damp heat (moisture resistance)	JSS 50101: 1996 Test no.6
21.		Damp heat (steady state)	JSS 50101: 1996 Test no.7
22.		Dust Test	JSS 50101: 1996 Test No.8
23.		Flammability	JSS 50101: 1996 Test no.10
24.		Impact (Bump)	JSS 50101: 1996 Test no.11
25.		Impact (Shock)	JSS 50101: 1996 Test no.12
26.		Sealing (static and operational seals)	JSS 50101: 1996 Test no.18
27.		Temperature cycling	JSS 50101: 1996 Test no.20
28.		Temperature (cold)	JSS 50101: 1996 Test no.21
29.		Temperature (dry heat)	JSS 50101: 1996 Test no.22
30.		Vibration test	JSS 50101: 1996 Test no. 23
31.		Vibration test (random)	JSS 50101: 1996 Test no. 24
32.		Low temperature (cold cycle)	TECQM 333:2010, Test no.1
33.		High temperature (dry heat cycle)	TEC QM 333:2010, Test no.2
34.		Tropical exposure (damp heat cyclic)	TEC QM 333:2010, Test no.3
35.		Rapid temperature cycle	TEC QM 333:2010, Test no.4
36.		Damp heat (steady state)	TEC QM 3332010, Test no.5

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
37.		Vibration test	TEC QM 333:2010, Test no. 6
38.		Sealing test (gas tightness)/ high altitude test	TEC QM 333:2010, Test no. 7
39.		Water immersion Test	TEC QM 333:2010, Test no.8
40.		Corrosion – salt	TEC QM 333:2010, Test no.9
41.		Drop Test	TEC QM 3332010, Test no. 10
42.		Topple test	QM 333 TEC: 2010 Test no. 11
43.		Fall Test	QM 333 TEC: 2010 Test no.12
44.		Bump / roadability	QM 333 Test no.13: 2010
45.		Rain test	QM 333: 2010 Test no.14
46.		Dust test	QM 333 TEC: 2010 Test no. 15
47.		Cold test	IEC 60068-2-1: 2007
48.		Dry heat test	IEC 60068-2-2: 2007
49.		Damp heat test (cyclic)	IEC 60068-2-30: 2005
50.		Rough handling shock (Drop Test)	IEC 60068-2-31: 2008
51.		Composite temperature/humidity cyclic test	IEC 60068-2-38: 2021
52.		Flowing mixed gas corrosion test	IEC 60068-2-60: 2015
53.		Hammer tests (IK- 01-IK-10)	IEC 60068-2-75: 2014
54.		Damp heat test (steady state)	IEC 60068-2-78: 2012

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
55.		Shock Test	IEC 60068-2-27: 2008
56.		Vibration (Sinusoidal)	IEC 60068-2-6: 2007
57.		Vibration test (Random)	IEC 60068-2-64: 2008
58.		Salt mist	IEC 60068-2-11: 2021
59.		Salt spray test	IEC 60068-2-52: 2017
60.		Change of Temperature	IEC 60068-2-14: 2023
61.		Sealing test	IEC 60068-2-17: 2023
62.		Dry heat test	IS 9000 (Part 3/Sec 1 to 5): 1977
63.		Damp heat test (steady state)	IS 9000 (Part 4): 2020
64.		Damp Heat Test (Cyclic)	IS 9000 (Part 5/Sec 1 & 2): 1981
65.		Dust test	IS 9000 (Part12): 1981
66.		Salt mist test	IS 9000 (Part11): 1983
67.		Impact test (shock test)	IS 9000 (Part-7: Sec 1): 2018
68.		Drip proof test	IS 9000 (Part-23): 1984
69.		Driving rain test	IS 9000 (Part-16): 1983
70.		Cold Start Test	IEC 60571 Cl. 12.2.4:2012
71.		Damp Heat Test, cyclic	IEC 60571 Cl. 12.2.6:2012
72.		Dry Heat Test	IEC 60571 Cl. 12.2.5:2012
73.		Vibration, shock and bump test	IEC 60571: 2012 Cl. 12.2.12

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
74.		Water tightness test	IEC 60571: 2012 Cl. 12.2.13
75.		Low temperature storage test	IEC 60571: 2012 Cl. 12.2.15
76.		Salt Mist test	IEC 60571 Cl. No. 12.2.11
77.		Degrees of protection against access to hazardous parts indicated by the additional letter (A,B,C,D)	IS/IEC 60529: 2001 Cl.7.0, Cl.15.0 & Table 4
78.		Degrees of protection against access to hazardous parts indicated by the first characteristics numeral	IS/IEC 60529: 2001 Cl.12, Table 6
79.		Degrees of protection against ingress of water indicated by the second characteristic numeral (IPX1 to IPX8)	IS/IEC 60529: 2001 Cl.6.0 Table 3 & Cl. 14 Table 8
80.		Degrees of protection against solid foreign objects indicated by the first characteristics numeral (IP1X1 to IP6X)	IS/IEC 60529: 2001 Cl. 13, Table 7
81.		Glow wire test	IS 11000 (Part 2/Sec 1): 2018
82.		Glow wire test	IEC 60695-2-10: 2021
83.		Needle flame test	IEC 60695-11-5: 2016

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
84.		Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) Designations - Impact test (IK01 to IK 10)	IEC 62262: 2002 Cl. 4.1 & 4.2, Cl. 6
85.		Low Pressure (Altitude)	MIL-STD-810G: 2008 Method 500.5
86.		Low Pressure (Altitude)	MIL-STD-810H: 2019 Method 500.6
87.		High Temperature	MIL-STD-810G: 2008 Method 501.5
88.		High Temperature	MIL-STD-810H: 2019 Method 501.7
89.		Low Temperature	MIL-STD-810G: 2008 Method 502.5
90.		Low Temperature	MIL-STD-810H: 2019 Method 502.7
91.		Temperature Shock	MIL-STD-810G: 2008 Method 503.5
92.		Temperature Shock	MIL-STD-810H: 2019 Method 503.7
93.		Rain test	MIL-STD-810G: 2008 Method 506.5
94.		Rain test	MIL-STD-810G: 2008 Method 506.5
95.		Humidity Test	MIL-STD-810G: 2008 Method 507.5

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Environmental Test Facility		
96.		Humidity Test	MIL-STD-810H: 2019 Method 507.6
97.		Salt Fog	MIL-STD-810H: 2019 Method 509.7
98.		Salt Fog	MIL-STD-810G: 2008 Method 510.5
99.		Sand and Dust	MIL-STD-810G: 2008 Method 510.5
100.		Sand and Dust	MIL-STD-810H: 2019 Method 510.7
101.		Vibration Test	MIL-STD-810G: 2008 Method 514.6
102.		Vibration Test	MIL-STD-810H: 2019 Method 514.8
103.		Shock Test	MIL-STD-810G: 2008 Method 516.6
104.		Shock Test	MIL-STD-810H: 2019 Method 516.8
105.		Surge Immunity Test	IEC 61000-4-5: 2014
106.		Salt Spray Test	ISO 16750-4 Cl. 5.5: 2023
107.		Change in Temperature	ISO 16750-4:2023
108.		Drop Test	ISO 16750-4 :2023
109.		Dry Heat	ISO 16750-4 :2023
110.		Damp Heat Test, Steady state test	ISO 16750-4 :2023

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	Environmental Test Facility		
111.		Temperature Cycling Test	ISO 16750-4:2023
112.		Shock & Vibration Test	IEC 61373: 2023
113.		Tensile elongation &flexural test	ASTM D638 & ASTM D 790: 2017
114.		Tensile elongation yield test	IS 1608-1: 2022
115.		Test for Second characteristic numeral 1 to 8	IS/IEC 60034 (Part 5): 2020
116.		Burn in test on PCB Controller card for 45 Hours	RDSO specification ELRS/SPEC/S1/0015
117.		HV Test	Clause 8 (v) RDSO specification : RDSO/PE/SPEC/TL/0091-2016 (REV-1)
118.		Insulation Resistance Test	Clause 8 (iv) RDSO specification : RDSO/PE/SPEC/TL/0091-2016 (REV-1)
119.		Resistance to Humidity Test	Clause 8 (iii) RDSO specification : RDSO/PE/SPEC/TL/0091-2016 (REV-1)
120.		Temperature Rise test	Clause No. 8 (xi) RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
121.		Visual and dimensional check	Clause No. 8 (i) RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
122.		Over voltage protection	Clause No. 8 (vi) RDSO/PE/SPEC/ TL/0091-2016(REV-1)

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	Environmental Test Facility		
123.		Wattage measurement	Clause No. 8 (vii)RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
124.		Short circuit protection	Clause No. 8 (viii) RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
125.		Surge protection	Clause No. 8 (ix) RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
126.		Reverse polarity	Clause No. 8 (x) RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
127.		Fire retardant test	Clause No. 8 (xiv)RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
128.		Test for IP65 protection	Clause No. 8 (xv)RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
129.		Vibration and shock	Clause No. 8 (xvi)RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
130.		Environmental tests	Clause No. 8 (xvii)RDSO/PE/SPEC/ TL/0091-2016(REV-1)
131.		Life test	Clause No. 8 (xviii) DSO/PE/SPEC/ TL/0091-2016(REV-1)
132.		Endurance test	Clause No. 8 (xx)RDSO/PE/SPEC /TL/0091-2016 (REV-1)
133.		Safety test	Clause No. 8 (xxi)RDSO/PE/SPEC/ TL/0091-2016 (REV-1)
134.		Low temperature start -up test	Cl.13.4.4EN 50155:2017
135.		Dry heat test	Cl.13.4.5EN 50155:2017

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	Environmental Test Facility		
136.		Low temperature storage test	Cl. 13.4.6EN 50155:2017
137.		Cyclic damp heat test	Cl. 13.4.7EN 50155:2017
138.		Insulation test	Cl.13.4.9EN 50155:2017
139.		Salt mist test	Cl.13.4.10EN 50155:2017
140.		Vibration and shock test	Cl. 13.4.11EN 50155:2017
141.		Enclosure protection test (IP code)	Cl.13.4.12EN 50155:2017
142.		Fire Hazard Testing (Flammability test)	UL 94: 2023
143.		Fire Hazard testing	IEC 60695-11-10:2013

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
1.	PVC Insulated Cables	Annealing test for Copper Conductor	Table-1, i). a).1), Cl. 4.1 of IS 694, Cl. 7.1.2.1,7.2.3 of IS 8130, IS 10810 (Pt. 1):1984
2.		Tensile strength for aluminium conductor	Table-1, i). a).2), Cl. 4.1 of IS 694, Cl. 4.1, 7.2.1 a, b of IS 8130, IS 10810 (Pt. 2): 1984
3.		Wrapping test for Aluminium Conductor	Table-1, i). a).3), Cl. 4.1 of IS 694, Cl. 7.2.2 of IS 8130, IS 10810 (Pt. 3): 1989
4.		Conductor resistance	Table-1, i). a).4), Cl. 4.2 of IS 694, Cl. 7.3 of IS 8130, IS 10810 (Pt. 5): 1984
5.		Per sulphate test (for tinned Copper Conductor)	Table-1, i). a).5), Cl. 10.11 of IS 694, Cl. 7.1.1 of IS 8130, IS 10810 (Pt-4): 1984
6.		Over all dimensions and Thickness of Insulation/ Sheath	Table-1, i). b) (Cl.5.3, 8.3, 9, 16.1.2, 16.1.3, 17.1.2, 17.1.3,18.1.2, 18.1.4, 18.1.5,18.1.6, 19.1.3, 19.1.5,19.1.6, 19.1.7, 20.1.2,20.1.4, 20.1.5, 21.1.2, 22.1.2, 22.1.4, table-3, 4, 5, 6, 7,9,10 of IS 694, IS 10810 (Pt. 6):1984
7.		Tensile strength of insulation & sheath	Table-1, i).c). d).1) Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt. 7): 1984

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	Cable and Accessories		
8.		Elongation at break of insulation & sheath	Table-1, i).c). d).1) Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt. 7): 1984
9.		Loss of mass test	Table-1, i).c), d),2) Cl. 5.4,8.4 of IS 694, Table-1,2 of IS 5831, IS 10810 (Pt-10): 1984
10.		Ageing in air oven- Elongation	Table-1, i).c). d),3), Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt-11): 1984
11.		Shrinkage test	Table-1, i).c). d),4), Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt-12): 1984
12.		Heat shock test	Table-1, i). d).5),6) Cl. 8.4 of IS 694, Table 1 of IS 5831, IS 10810 (Pt. 14): 1984
13.		Hot deformation test	Table-1, i).c), d).6), Cl. 5.4,8.4 of IS 694, Table-1,2 of IS 5831, IS 10810 (Pt-15): 1984
14.		Thermal Stability	Table-1, i).c). d),7), Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt-60): 1984
15.		Cold Bend Test	Table-1, i).c). d),8),12), Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt-20): 1984

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	Cable and Accessories		
16.		Cold impact test	Table-1, i).c). d),13),9), Cl. 5.4,8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt-21): 1984
17.		Flammability test	Table-1, i).c).10), Cl. 10.4, of IS 694, IS 10810 (Pt. 53): 1984
18.		Oxygen Index Test	Table-1, i).c). d),8),11), Cl. 10.5, of IS 694, IS 10810 (Pt. 58): 1984
19.		Oxygen Index Test	Table-1, i).c). d), 8), 11), Cl. 10.5, of IS 694, ASTM D 2863-09: 1995
20.		Temperature Index Test	Table-1, i).c). d),9),12) Cl. 10.7, of IS 694, IS 10810 (Pt. -64): 1984
21.		Halogen Acid Gas	Table-1, i).c). d).10), 13), Cl. 10.6 of IS 694, IS 10810(Pt-59): 1984
22.		Halogen Acid Gas	Table-1, i).c). d).10), 13), Cl. 10.6 of IS 694, IEC 60754-1: 1994
23.		Smoke Density	Table-1, i).c). d).11),14), Cl.10.8 of IS 694, IS 13360 (Part 6/sec 9):2001
24.		Smoke Density	Table-1, i).c). d).11), 14), Cl. 10.8 of IS 694, ASTM D 2843: 1999
25.		High voltage Test (AC)	Table-1, i). e).1),3) (Cl. 10.2, of IS 694, IS 10810 (Pt. 45): 1984
26.		High voltage Test (DC)	Table-1, i). e).1) 3), Cl. 10.1, of IS 694, IS 10810 (Pt. 45):1984
27.		High voltage Test or Spark Test	Table-1, i). e).1) 3), Cl. 10.3, of IS

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	Cable and Accessories		
			694, IS 10810 (Pt. 45):1984
28.		Insulation resistance	Table-1, i). e).2), Cl.5.4, 8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt. 43): 1984
29.		Volume Resistivity	Table-1, i). e).2),Cl.5.4, 8.4 of IS 694, Table-1 of IS 5831, IS 10810 (Pt. 43): 1984
30.		Additional ageing test (for OU cable only)	Cl.10.9 of IS 694: 2010
31.	Cross Linked Polyethylene Insulated, PVC sheathed cables for working voltages up to and Including 1100 volts	Annealing test for Copper Conductor	Cl. 15.1((a)-i) of IS 7098(Pt-1), Cl. 7.1.2.1, 7.2.3 of IS 8130, IS 10810 (Pt 1): 1984
32.		Tensile strength for Aluminium Conductor	Cl. 15.1((a)-i) of IS 7098(Pt-1), Cl. 7.2.1. of IS 8130, IS 10810 (Pt 2): 1984
33.		Wrapping test for Aluminium Conductor	Cl. 15.1((a)-i) of IS 7098 (Pt-1), Cl.7.2.2 of IS 8130, IS 10810 (Pt 3): 1984
34.		Conductor resistance	Cl. 15.1(a)-iv) of IS 7098 (Pt-1), Cl. 7.3 (Table-1,2) of IS 8130, IS 10810 (Pt. 5): 1984
35.		Armour Resistance Test	Cl. 15.1(b) Cl. 13.6 (g) of IS 7098 (Pt-1), Cl. 8.4 of IS 3975, IS 10810 (Pt 42): 1984

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
36.		Dimension for armouring material	Cl.15.1(b) Cl.13.6(a), (b) of IS 7098(Pt- 1), Cl.7 of IS 3975, IS 10810 (Pt 36): 1984
37.		Elongation at break of armouring material	Cl. 15.1(b) Cl. 13.6(a), (b) of IS 7098(Pt-1), IS 10810 (Pt 37): 1984
38.		Resistivity & Conductance test of Armour (Wires/strips)	Cl. 15.1(b) Cl. 13.6 (g) of IS 7098(Pt-1), Cl. 8.4 of IS 3975, IS 10810 (Pt 42):1984
39.		Tensile strength of armouring material	Cl. 15.1(b) Cl.13.6(a), (b) of IS 7098(Pt- 1), IS 10810 (Pt 37): 1984
40.		Torsion test on Galvanized steel wire for armouring	Cl. 15.1(b) Cl. 13.6(c) of IS 7098(Pt-1), Cl. 8.2 of Table 6 of IS 3975, IS 10810 (Pt 38): 1984
41.		Winding test on Galvanized steel strips for armouring	Cl. 15.1(b) Cl. 13.6 (d) of IS 7098(Pt-1), IS 10810(Pt 39): 1984
42.		Uniformity of Zinc coating	Cl. 15.1(b) Cl. 13.6 (e) of IS 7098(Pt-1), Cl. 9.2 of IS 3975, IS 10810 (Pt 40): 1984
43.		Mass of Zinc coating	Cl. 15.1(b) Cl.13.6 (f) of IS 7098(Pt-1), Cl. 9.1 of IS 3975, IS 10810 (Pt 41): 1984
44.		Thickness of Insulation & Sheath	Cl. 15.1(C) Cl. 9.2, 12.3, 14.3.1 (Table- 3,5,8) of IS 7098 (Pt- 1), IS 10810 (Pt 6): 1984

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	Cable and Accessories		
45.		Tensile strength of insulation & Sheath	Cl. 15.1(d), (e)-i of IS 7098 (Pt-1), Cl. 4.1 (table-1,2) of IS 5831, IS 10810 (Pt 7):1984
46.		Elongation at break of insulation	Cl. 15.1(d), (e)-i Cl. 4.1 (table-1,2) of IS 7098(Pt-1), IS 10810 (Pt 7): 1984
47.		Ageing in air oven- Elongation	Cl. 15.1(d), (e) - i Cl.4.1, (table-1,2), IS 7098(Pt-1), IS 10810 (Pt 11): 1984
48.		Ageing in air oven- Tensile Strength	Cl. 15.1(d), (e) - i Cl. 4.1, (table-1,2), IS 7098(Pt-1), IS 10810 (Pt 11): 1984
49.		Hot Set Test	Cl. 15.1(d) - i Cl. 4.1(Table-1) of IS 7098(Pt-1), IS 10810 (Pt 30): 1984
50.		Shrinkage test	Cl. 15.1(d), (e)-iv,vi Cl.4.1 (Table-1,2) of IS 7098(Pt-1), IS 10810 (Pt 12): 1984
51.		Water Absorption (Gravimetric)	Cl. 15.1(d)-v Cl. 4.1 (Table-1) of IS 7098(Pt-1), IS 10810 (Pt 33): 1984
52.		Loss of mass test	Cl. 15.1(e)- i of IS 7098 (Pt-1), Cl. 4.1 (table- 2) IS 5831, IS 10810 (Pt 10):1984
53.		Hot deformation test	Cl. 15.1(e)-v of IS 7098(Pt-1), Cl. 4.1(Table 2) of IS 5831, IS 10810 (Pt 15): 1984

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
54.		Heat shock test	Cl. 15.1(e)-vi of IS 7098(Pt-1), Cl. 4.1(Table-2) of IS 5831, IS 10810 (Pt 14): 1984
55.		Thermal Stability	Cl. 15.1(e)-vi of IS 7098 (Pt-1), Cl.4.1(Table-2) of IS 5831, IS 10810 (Pt 60):1984
56.		Insulation resistance (Volume Resistivity)	Cl. 15.1(f) Cl.4.1 (table-1) of IS 7098(Pt-1), IS 10810 (Pt 43): 1984
57.		High voltage Test	Cl. 15.1(g) Cl. 16.2of IS 7098 (Pt- 1), IS 10810 (Pt 45): 1984
58.		Flammability test	Cl. 15.1(h) Cl.16.3 of IS 7098(Pt-1), IS 10810 (Pt 53): 1984
59.		Cold Bend Test	Cl.15.4(a) of IS 7098 (Pt-1), Cl. 4.1, (Table- 2) of IS 5831, IS 10810 (Pt 20): 1984
60.		Cold Impact Test	Cl. 15.4(b) of IS 7098(Pt-1), Cl. 4.1, (Table-2) of IS 5831, IS 10810 (Pt. 21): 1984
61.		Oxygen Index Test	Cl. 15.1.1(C1)-a Cl. 16.4 of IS 7098 (Pt- 1), IS 10810 (Pt 58):1984
62.		Oxygen Index Test	Cl.15.1.1 (C1)-a Cl. 16.4 of IS 7098 (Pt- 1), ASTM D 2863-9: 1995

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	Cable and Accessories		
63.		Flame Retardance Test on Single Cable	Cl. 15.1.1(C1)-b, Cl.16.5 of IS 7098 (Pt-1), IS 10810 (Pt 61): 1984
64.		Flame Retardance Test on Single Cable	Cl. 15.1.1(C1)-b Cl.16.5 of IS 7098 (Pt- 1), SS-424-1475: 2018
65.		Flame retardance test on bunched cables	Cl. 15.1.1(C1)-c Cl.16.6 of IS 7098 (Pt- 1), IS 10810 (Pt -62):1984
66.		Flame retardance test on bunched cables	Cl. 15.1.1(C1)-c Cl.16.6 of IS 7098 (Pt- 1), IEC- 60332-3-22/23/24:2018
67.		Temperature Index Test	Cl.15.1.1(C2)-g Cl.16.9 of IS 7098(Pt-1), IS 10810 (Pt -64): 1984
68.		Temperature Index Test	Cl. 15.1.1(C2)-g Cl.16.9 of IS 7098(Pt-1), ASTM D 2863-09: 1995
69.		Smoke Density	Cl. 15.1.1(C2)-e Cl.16.10 of IS 7098 (Pt-1), IS 10810 (Pt- 63), ASTM D 2843:1999
70.		Halogen Acid Gas	Cl.15.1.1(C2)-f Cl.16.13, 16.8 of IS 7098 (Pt-1), IS 10810 (Pt-59): 1984
71.	PVC insulated (heavy duty) electric cables for working voltages up to and including 1100 Volts	Annealing test for Copper Conductor	Cl. 15.1(a)-1) of IS 1554(Pt-1), Cl. 7.1.2.1 of IS 8130, IS 10810 (Pt 1): 1984
72.		Tensile strength for Aluminium Conductor	Cl. 15.1(a)-2) of IS 1554(Pt-1), Cl. 7.2.1. of IS 8130, IS 10810 (Pt. 2): 1984

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	Cable and Accessories		
73.		Wrapping test for Aluminium Conductor	Cl.15.1(a)-3) of IS 1554(Pt-1), Cl.7.2.2 of IS 8130, IS 10810 (Pt 3): 1984
74.		Conductor resistance	Cl. 15.1(a)-4) of IS 1554 (Pt-1), Cl. 7.3, (Table-1,2) of IS 8130, IS 10810 (Pt. 5):1984
75.		Dimension for armouring material	Cl.15.1 b), Cl. 13.6(a), (b) of IS 1554(Pt-1), Cl.7 of Table 5 of IS 3975, IS 10810 (Pt. 36):1984
76.		Tensile strength of armouring material	Cl. 15.1(b) Cl.13.6(a), (b) of IS 1554(Pt.- 1), IS 10810 (Pt. 37):1984
77.		Elongation at break of armouring material	Cl. 15.1(b) Cl. 13.6(a), (b) of IS 1554(Pt-1), IS 10810 (Pt. 37): 1984
78.		Mass of Zinc coating	Cl. 15.1(b) Cl. 13.6 (f) of IS 1554 (Pt-1), Cl. 9.1 of IS 3975, IS 10810 (Pt. 41): 1984
79.		Armour Resistance Test	Cl. 15.1(b) Cl.13.6 (g) of IS 1554 (Pt-1), Cl. 8.4 of IS 3975, IS 10810 (Pt. 42): 1984
80.		Torsion test on Galvanized steel wire for armouring	Cl. 15.1(b) Cl. 13.6(c) of IS 1554(Pt-1), Cl. 8.2 of Table 6 of IS 3975, IS 10810 (Pt. 38): 1984
81.		Winding test on Galvanized steel strips for armouring	Cl. 15.1(b) Cl. 13.6 (d)of IS 1554(Pt-1), IS 10810 (Pt 39): 1984

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	Cable and Accessories		
82.		Uniformity of Zinc coating	Cl. 15.1(b) Cl. 13.6 (e) of IS 1554 (Pt-1), Cl. 9.2 of IS 3975, IS 10810 (Pt. 40): 1984
83.		Resistivity & conductance test of armour (wires/strips)	Cl. 15.1(b) Cl.13.6 (g) of IS 1554(Pt-1), Cl. 8.4 of IS 3975, IS 10810 (Pt 42): 1984
84.		Thickness of Insulation & Sheath	Cl. 15.1(C) Cl. 9.2, 9.3,12.3, 14.4.1 (Table- 2,4,7) of IS 1554 (Pt- 1), IS 10810 (Pt 6): 1984
85.		Tensile strength of insulation & Sheath	Cl. 15.1(d)-1 of 1554 (Pt-1), Cl. 4.1 (table-1,2) of IS 5831, IS 10810 (Pt 7):1984
86.		Elongation at break of insulation & sheath	Cl. 15.1(d)-1 of IS 1554 (Pt-1) Cl. 4.1 (table-1,2) of IS 5831, IS 10810 (Pt 7): 1984
87.		Ageing in air oven- Tensile Strength	Cl. 15.1(d)-2 of IS 1554 (Pt-1), Cl.4.1 (table-1,2) IS 5831, IS 10810 (Pt 11): 1984
88.		Ageing in air oven- Elongation	Cl. 15.1(d)-2 of IS 1554 (Pt-1), Cl.4.1 (table-1,2) IS 5831, IS 10810 (Pt 11): 1984
89.		Shrinkage test	Cl. 15.1(d)-3 of IS 1554(Pt-1), Cl.4.1 (table-1,2) of IS 5831, IS 10810 (Pt-12):1984

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	Cable and Accessories		
90.		Hot deformation test	Cl. 15.1(d)-4 of IS 1554(Pt-1) Cl.4.1(table1,2) of IS 5831, IS 10810 (Pt.15):1984
91.		Loss of mass test	Cl. 15.1(d)-5 of IS 1554(Pt-1) Cl.4.1(table1,2) IS 5831, IS 10810 (Pt.10):1984
92.		Heat shock test	Cl. 15.1(d)-6 of IS 1554(Pt-1) Cl.4.1(table1,2) IS 5831, IS 10810 (Pt.14):1984
93.		Thermal Stability	Cl. 15.1(d)-7 of IS 1554(Pt-1) Cl.4.1(table1,2) IS 5831, IS 10810 (Pt.60):1984
94.		Insulation resistance constant	Cl. 15.1(e) of IS 1554(Pt-1), Cl.4.1 (table-1) of IS 5831, IS 10810 (Pt 43):1984
95.		Volume resistivity	Cl. 15.1(e) of IS 1554(Pt-1), Cl.4.1 (table-1) of IS 5831, IS 10810 (Pt 43):1984
96.		High voltage Test (AC)	Cl. 15.1(f) Cl. 16.3 of IS 1554(Pt- 1), IS 10810 (Pt 45): 1984
97.		High voltage Test (DC)	Cl. 15.1(f) Cl. 16.3 of IS 1554(Pt- 1), IS 10810 (Pt 45): 1984
98.		Flammability test	Cl. 15.1(h) Cl.16.4 of IS 1554(Pt-1), IS 10810 (Pt 53): 1984

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	Cable and Accessories		
99.		Cold Bend Test	Cl.15.4(a) of IS 1554 (Pt-1), Cl. 4.1, (Table- 1,2) of IS 5831, IS 10810 (Pt 20): 1984
100.		Cold Impact Test	Cl. 15.4(b) of IS 1554(Pt-1), Cl. 4.1, (Table-1,2) of IS 5831, IS 10810 (Pt. 21): 1984
101.		Oxygen Index Test	Cl. 15.1.1(C1, C2) Cl. 16.5 of IS 1554 (Pt- 1), IS 10810 (Pt 58): 1984
102.		Oxygen Index Test	Cl.15.1.1 (C1, C2) Cl. 16.5 of of IS 1554 (Pt- 1), ASTM D 2863-09:1995
103.		Flame Retardance Test on Single Cable	Cl. 15.1.1(C1) Cl.16.6 of IS 1554(Pt-1), IS 10810 (Pt 61): 1984
104.		Flame retardance test on bunched cables	Cl. 15.1.1(C1) Cl.16.7 of IS 1554 (Pt-1), IS 10810 (Pt -62):1984
105.		Smoke Density	Cl. 15.1.1(C2) Cl.16.11 of IS 1554 (Pt-1), IS 10810 (Pt- 63), ASTM D 2843:1999
106.		Halogen Acid Gas	Cl.15.1.1(C2) Cl.16.9 of IS 1554 (Pt-1), IS 10810 (Pt-59): 1984
107.		Temperature Index Test	Cl.15.1.1(C1, C2) Cl.16.10 of IS 1554 (Pt-1), IS 10810 (Pt-64): 1984
108.		Temperature Index Test	Cl.15.1.1(C1, C2) Cl.16.10 of IS 1554 (Pt-1), ASTM D 2863-09:1995

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	Cable and Accessories		
109.		Annealing test for Copper Conductor	Cl. 15.1(a)-1) of IS 1554(Pt-1), Cl. 7.1.2.1 of IS 8130, IS 10810 (Pt 1): 1984
110.	Copper Wire	Bismuth test	IS 440:1964, IS 191:2007
111.		Copper purity test	IS 440:1964, IS 191:2007
112.		Lead test	IS 440:1964, IS 191:2007
113.		Oxygen test	IS 440:1964, IS 191:2007
114.	Aerial Bunched Cables	Tensile strength for Aluminium Conductor	Cl. 10.1(a)- i of IS 14255, Cl. 7.2.1 of IS 8130, IS 10810 (Pt 2):1984
115.		Wrapping test	Cl. 10.1(a)- i of IS 14255, Cl. 7.2.2 of IS 8130, IS 10810 (Pt 3):1984
116.		Conductor resistance	Cl. 10.1(a)- i of IS 14255, Cl. 7.3 (table-1,2) of IS 8130, IS 10810 (Pt 5):1984
117.		Tensile strength of aluminium conductor	Cl. 10.1(a)-i of IS 14255, Cl. 7.2.1. of IS 8130, IS 10810 (Pt 2):1984
118.		Wrapping test	Cl. 10.1(a)- i of IS 14255, Cl.7.2.2 of IS 8130, IS 10810 (Pt 3):1984
119.		Conductor resistance	Cl.10.1(a)- i of IS 14255, Cl. 7.3 (Table- 1,2) of IS 8130, IS 10810 (Pt 5): 1984
120.		Test on Messenger Conductor-Cconductor resistance	Cl.10.1(a)- i of IS 14255, Cl.6 (Table-3) of IS 8130, IS 10810 (Pt 5): 1984

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	Cable and Accessories		
121.		Elongation Test on messenger conductor	Cl. 10.1(b)- i Cl.11.3, table-3 of IS 14255 1995
122.		Test on Messenger Conductor - Breaking Load	Cl. 10.1(b)-i Cl.6.5, table-3 of IS 14255: 1995
123.		Tensile strength of insulation	Cl. 10.1(c)-i Cl. 5.1, (Table-1,2) of IS 14255, IS 10810 (Pt 7): 1984
124.		Ageing in air oven- Elongation	Cl. 10.1(c)- i Cl. 5.1 (Table-1) of IS 14255, IS 10810 (Pt 11): 1984
125.		Ageing in air oven- Tensile Strength	Cl. 10.1(c)- i Cl. 5.1 (Table-1) of IS 14255, IS 10810 (Pt 11): 1984
126.		Hot Set Test	Cl. 10.1(c)- i Cl. 5.1, (Table-1) of IS 14255, IS 10810 (Pt.30): 1984
127.		Shrinkage test	Cl. 10.1(c)-iv Cl. 5.1, (Table-1) of IS 14255, IS 10810 (Pt12): 1984
128.		Water Absorption (Gravimetric)	Cl. 10.1(c)-v Cl. 5.1, (Table-1) of IS 14255, IS 10810 (Pt. 33): 1984
129.		Carbon black test - Content	Cl. 10.1(c)-vi Cl. 5.1 (Table-1,2) of IS 14255, IS 10810 (Pt 32): 1984
130.		Carbon black test - Content	Cl.10.1(c)-vi Cl. 5.1 (Table-1,2) of IS 14255, IS 2530: 1963
131.		Carbon black test - Dispersion	Cl.10.1(c)-vi Cl. 5.1 (Table-1,2) of IS 14255, IS 2530: 1963
132.		Thickness of Insulation	Cl. 10.1(e) Cl. 7.2 (Table-4) of IS 14255, IS 10810 (Pt: 6): 1984

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	Cable and Accessories		
133.		Insulation resistance (Volume Resistivity)	Cl. 10.1(f) Cl. 5.1 (Table-1,2) of IS 14255, IS 10810 (Pt 43): 1984
134.		High voltage test	Cl. 10.1(g) Cl. 11.2 of IS 14255, IS 10810 (Pt 45): 1984
135.		Physical test for PE insulation-Elongation at break	Cl. 10.1(d)-i Cl. 5.1 (Table-1,2) of IS 14255, IS 10810 (Pt.7): 1984
136.		Elongation at break of insulation	Cl.10.1(c)-i Cl. 5.1 (Table-1, 2) of IS 14255, IS 10810 (Pt. 7): 1984
137.		Bending test	Cl.10.4,11.4 of IS 14255, IS 10810 (Pt 50): 1984
138.		High Voltage Test	CENELAC HD 626 S1 A1/A2 2002
139.	Aluminium conductors for overhead transmission purposes- Aluminium stranded conductors	Measurement of diameter of individual aluminium wires	Cl.13.1(a) Cl.12.2 (Table -1,2), Cl.7 of IS 398 (Pt-1): 1996
140.		Breaking test of individual wires	Cl.13.1(b) Cl.12.3, (Table -1,2) of IS 398 (Pt-1): 1996
141.		Wrapping test	Cl.13.1(c) Cl.12.4 of IS 398 (Pt-1): 1996
142.		Resistance test	Cl.13.1(d) Cl.12.5 (Table -1,2) of IS 398 (Pt-1): 1996
143.		Measurement of lay ratio	Cl.13.1(e) Cl.12.6, Cl.9 & (Table -3) of IS 398 (Pt-1): 1996
144.		Freedom From Defects	Cl. 6.1 of IS 398 (Pt-1): 1996

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
145.		Joints in Stranded Conductors	Cl.8, Cl.8.1, Cl.8.2 of IS 398 (Pt-1): 1996
146.	Aluminium conductors for overhead transmission purposes- Aluminium conductors, galvanized steel - reinforced	Measurement of diameter of individual aluminium and steel wires	Cl.14.1(d) Cl. 13.2, Cl. 8 (Table 1,2) of IS 398 (Pt-2): 1996
147.		Breaking test of individual wires	Cl.14.1(f) Cl. 13.3(Table 1 & 2) of IS 398 (Pt-2): 1996
148.		Ductility test- (Elongation)	Cl.14.1(g) Cl.13.4, 13.4.2 of IS 398 (Pt- 2): 1996
149.		Ductility test- (Torsion test)	Cl.14.1(g) Cl. 13.4, 13.4.1 of IS 398 (Pt.- 2): 1996
150.		Wrapping test	Cl.14.1(h) Cl. 13.5, Cl.13.5.1, 13.5.2 of IS 398 (Pt.- 2): 1996
151.		Resistance test	Cl.14.1(j) Cl. 13.6 of IS 398 (Pt-2): 1996
152.		Galvanizing test- a uniformity of zinc coating	Cl.14.1(k) Cl. 13.7 of IS 398 (Pt-2): 1996
153.		Galvanizing test- weight of zinc coating	Cl.14.1(k) Cl. 13.7 of IS 398 (Pt-2): 1996
154.		Measurement of lay ratio	Cl.14.1(e) Cl. 13.8, Cl.10 (Table 4) of IS 398 (Pt-2): 1996
155.		Freedom from defects	Cl. 7.1 of IS 398 (Pt-2): 1996
156.		Aluminium conductor, galvanized	Cl. 3.1 of IS 398 (Pt-2): 1996

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
		steel- reinforced	
157.		Joints in Aluminium Stranded wires	Cl. 9, Cl. 9.1, Cl.9.2, Cl. 9.3 of IS 398 (Pt-2): 1996
158.	Aluminium conductors for overhead transmission purposes- Aluminium a lay stranded conductor	Breaking test of individual aluminium a lay wire	Cl.12.2, (Table-1,2), Cl.12.3, Cl. 7 of IS 398 (Pt-4): 1994
159.		Elongation test of individual aluminium a lay wire	Cl. 12.2 (Table-1,2), Cl. 12.3 of IS 398(Pt-4): 1994
160.		Resistance test of individual aluminium a lay wire	Cl.,12.4 (Table-1,2) of IS 398 (Pt-4)1994
161.		Measurement of diameter of individual aluminium a lay wire	Cl. 3.1.2, Table 1,2 of IS 398 (Pt.- 4): 1994
162.		Measurement of lay ratio	Cl. 9, Cl. 9.1 Cl. 9.2, Cl.9.3, Cl.9.4 Table-3 of IS: 398 (Pt-4): 1994
163.		Freedom from defects	Cl. 6.1 of IS: 398 (Pt-4): 1994
164.		Joint in wires	Cl. 8, Cl.8.1, Cl. 8.2 of IS: 398 (Pt-4): 1994
165.	Welding Cables	Annealing test	Cl. 10.1.a.1, Cl.7 of IS 9857, Cl.7.1.2, 7.2.3 of IS 8130, IS 10810 (Pt 1): 1984
166.		Conductor resistance	Cl. 10.1.a.2 of IS 9857, Cl. 7.3 (Table-3,4,5) of IS 8130, IS 10810 (Pt 5): 1984
167.		Thickness of Covering	Cl. 10.1.b, Cl.9.2 (Table-1) of IS 9857,

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
			IS 10810 (Pt 6):1984
168.		Tensile strength	Cl. 10.1.c.1 of IS 9857, Cl.4.1 (Table-2) of IS 6380, IS 10810 (Pt 7): 1984
169.		Elongation at break	Cl. 10.1.c.1 of IS 9857, Cl. 4.1 (Table-2) of IS 6380, IS 10810 (Pt 7): 1984
170.		Ageing in air oven- Tensile Strength	Cl. 10.1.c.2, of IS 9857, Cl. 4.1 (Table-2,3) of IS 6380, IS 10810 (Pt 11): 1984
171.		Ageing in air oven- Elongation	Cl. 10.1.c.2, of IS 9857, Cl. 4.1 (Table-2,3) of IS 6380, IS 10810 (Pt 11): 1984
172.		Ageing in air bomb- Elongation	Cl.10.1. c.3, of IS 9857, Cl. 4.1 (Table-2,3) of IS 6380, IS 10810 (Pt 56): 1984
173.		Ageing in air bomb- Tensile Strength	Cl. 10.1.c.3, of IS 9857, Cl. 4.1(Table-2,3) of IS 6380, IS 10810 (Pt 56): 1984
174.		Oil resistance- Elongation	Cl.10.1. c.4 of IS 9857, Cl. 4.1 (Table-2) of IS 6380, IS 10810 (Pt.31): 1984
175.		Oil resistance-Tensile Strength	Cl.10.1. c.4 of IS 9857, Cl. 4.1 (Table-2) of IS 6380, IS 10810 (Pt.31): 1984
176.		Hot Set Test	Cl. 10.1.c.5 of IS 9857, Cl. 4.1 (Table-3) of IS 6380, IS 10810

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
			(Pt 30): 1984
177.		High voltage Test (Water Immersion)	Cl. 10.1.d, Cl.11.1 of IS 9857, IS 10810 (Pt 45): 1984
178.		Static flexibility test	Cl. 10.1.e, Cl.11.3 of IS 9857, IS 10810(Pt.54): 1984
179.		Flammability test	Cl. 10.1.f, Cl. 11.4 of IS 9857, IS 10810 (Pt 53): 1984
180.	Elastomer insulated Cables for working voltages up to and including 1100 volts	Per sulphate test (for tinned Copper Conductor)	Cl. 21.1 Cl.3 of IS 9968(Pt-1), Cl.7.1.1 of IS 8130, IS 10810 (Pt -4): 1984
181.		Annealing test for Copper Conductor	Cl. 21.1, of IS 9968(Pt-1), Cl.7.1.2, 7.2.3 of IS 8130, IS 10810 (Pt 1): 1984
182.		Tensile strength for Aluminium Conductor	Cl. 21.1, Cl.3 of IS 9968 (Pt-1), Cl.7.2.1 a & b of IS 8130, IS 10810 (Pt 2): 1984
183.		Wrapping test for aluminium conductor	Cl. 21.1, Cl.3 of IS 9968 (Pt-1), Cl.7.2.2 of IS 8130, IS 10810 (Pt 3): 1984
184.		Conductor resistance	Cl. 21.1(d) of IS 9968 (Pt-1), Cl. 4.1 (Table- 2,3) of IS 8130, IS 10810 (Pt 5): 1984
185.		Thickness of Insulation and Sheath and Overall dimensions	Cl. 21.1, Cl.12,19 (Table-1 to 10) of IS 9968(Pt-1), IS 10810 (Pt 6):1984

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
186.		Tensile strength of insulation & sheath	Cl. 21.1(a) of IS 9968(Pt-1), Cl.4.1 (Table-2,3) IS 6380, IS 10810 (Pt 7): 1984
187.		Elongation at break of insulation & sheath	Cl. 21.1(a) of IS 9968 (Pt-1), Cl.4.1 (Table-2,3) IS 6380, IS 10810 (Pt 7): 1984
188.		Ageing in air oven- Elongation	Cl. 21.1(b) of IS 9968(Pt-1), Cl. 4.1 (Table-2, 3) of IS 6380, IS 10810 (Pt. 11): 1984
189.		Ageing in air oven- Tensile strength	Cl. 21.1(b) of IS 9968(Pt-1), Cl. 4.1 (Table-2, 3) of IS 6380, IS 10810 (Pt. 11): 1984
190.		Ageing in oxygen bomb-Elongation	Cl. 21.1(d) of IS 9968(Pt-1), Cl. 4.1 (Table-2, 3) of IS 6380, IS 10810 (Pt. 16): 1984
191.		Ageing in oxygen bomb-Tensile Strength	Cl. 21.1(d) of IS 9968(Pt-1), Cl. 4.1 (Table-2,3) of IS 6380, IS 10810 (Pt 16): 1984
192.		Ageing in air bomb- Elongation	Cl. 21.1(b) of IS 9968(Pt-1), Cl. 4.1(Table-2, 3) of IS 6380, IS 10810 (Pt. 56): 1984
193.		Ageing in air bomb- Tensile Strength	Cl. 21.1(b) of IS 9968(Pt-1), Cl. 4.1(Table-2, 3) of IS 6380, IS 10810 (Pt. 56): 1984

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
194.		Hot Set Test	Cl. 21.1(e) Cl. 4.1 (Table-1) of IS 9968(Pt-1), IS 10810 (Pt 30): 1984
195.		Oil resistance- Elongation	Cl. 21.1(f) of IS 9968(Pt-1), Cl. 4.1 (Table-2,3) of IS 6380, IS 10810 (Pt.31): 1984
196.		Oil resistance-Tensile Strength	Cl. 21.1(f) of IS 9968(Pt-1), Cl. 4.1(Table-2,3) of IS 6380, IS 10810 (Pt.31): 1984
197.		Tear resistance	Cl. 21.1(g) of IS 9968(Pt-1), Cl. 4.1 (Table-3) of IS 6380, IS 10810 (Pt.17): 1984
198.		Insulation resistance	Cl. 21.1 of IS 9968(Pt-1), Cl. 4.1(Table-2) of IS 6380, IS 10810 (Pt. 43): 1984
199.		High voltage Test (Water Immersion)	Cl. 21.1, Cl. 22.2 of IS 9968 (Pt-1), IS 10810(Pt 45): 1984
200.		Flammability test	Cl. 21.1, Cl. 22.3 of IS 9968(Pt-1), IS 10810 (Pt 53): 1984
201.		Water absorption test (Electrical)	Cl. 21.1 of IS 9968(Pt-1), Cl. 4.1 (Table-2) of IS 6380, IS 10810 (Pt.28): 1984
202.		Cord Flexing test	Cl. 21.4 22.4 of IS 9968 (Part-1): 1988

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
203.	Halogen Free Flame Retardant (HFFR) cables	Conductor resistance	Table-2, III). a). i, Cl. 4.1 Of IS 17048, Cl. 7.3 of IS 8130, IS 10810 (Pt 5): 1984
204.		Annealing test for Copper Conductor	Table-2, III). a). i), Cl. 4.1 Of IS 17048, Cl. 7.1.2.1 & 7.2.3 of IS 8130, IS 10810 (Pt 1): 1984
205.		Per sulphate test for tinned copper	Table-2, III). a). i), Cl. 5.10 of IS 17048, Cl. 7.1.1 of IS 8130, IS 10810 (Pt -4): 1984
206.		Tensile strength for Aluminium Conductor	Table-2, III). a). iv), Cl. 4.1 of IS 17048, Cl. 7.2.1 a, b of IS 8130, IS 10810 (Pt 2): 1984
207.		Wrapping test for Aluminium Conductor	Table-2, III). a). v), Cl. 4.1 of IS 17048, Cl. 7.2.2 of IS 8130, IS 10810 (Pt 3): 1984
208.		Test for Overa l Dimensions and Thickness of Insulation& Sheath	Table-2, III). b), Cl.11.2, 11.3, 12.2, 12.3, 13.2, 13.4, 13.5, 13.6, 14.2, 14.4, 14.5, 14.6,15.2,15.4, 15.5, Table 3 to 8of IS 17048, IS 10810 (Pt 6): 1984
209.		Tensile strength of insulation before and after ageing	Table-2, III).c). i), Cl. 4.2, Annex A of IS 17048, IS 10810 (Pt 7): 1984

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
210.		Tensile strength of sheath before and after ageing	Table-2, III).c). i), Cl. 4.5, Annex B of IS 17048, IS 10810 (Pt 7): 1984
211.		Elongation at break of insulation before and after ageing	Table-2, III).c). i), Cl.4.2, Annex A of IS 17048, IS 10810 (Pt 7): 1984
212.		Elongation at break of sheath before and after ageing	Table-2, III). e). i), Cl. 4.5, Annex B of IS 17048, IS 10810 (Pt 7): 1984
213.		High voltage Test (AC)	Table-2, III). f). i), Cl. 5.1, of IS 17048, IS 10810 (Pt 45): 1984
214.		Insulation resistance	Table-2, III).c). i), Cl. 4.2, Annex A of IS 17048, IS 10810 (Pt 43): 1984
215.		Oxygen Index Test	Table-2, III).c). iv), Cl. 5.4, of IS 17048, IS 10810(P-58): 1984
216.		Ageing in air oven- Tensile strength	Table-2, III).c).vi), Cl. 4.2, Annex A of IS,17048, IS 10810 (Pt 11): 1984
217.		Hot deformation test	Table-2, III). e).vi), Cl. 4.5, Annex B of IS 17048, IS 10810 (Pt 15): 1984
218.		Assessment of Halogen	Table-2, III). e).vi), Cl. 5.7, Annex D of IS 17048, IS 10810(Pt- 59): 1984
219.		Cold Bend Test	Table-2, III). f). i), Cl.5.1, Annex A, B of IS 17048, IS 10810 (Pt 20): 1984

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
220.		Cold Impact Test	Table-2, III). f).vi), Cl.5.1, Annex A, B of IS 17048, IS 10810 (Pt 21): 1984
221.		Ozone resistance test	Table-2, III).c). xi), Cl. 4.2, Annex A of IS 17048, IS 10810 (Pt.13): 1984
222.		Flame Retardant Test	Table-2, III). f). v), Cl.5.11, of IS 17048, IS 10810 (Pt 61): 1984
223.		Hot Set Test	Table-2, III).c). xi), Cl. 4.2, Annex A of IS 17048, IS 10810 (Pt 30): 1984
224.		Flammability test	Table-2, III). f). i), Cl. 5.3, of IS 17048, IS 10810 (Pt 53): 1984
225.		Water Immersion test (Effect of water on sheath of cable)- Elongation	Table-2, III). f).vi), Cl.5.13, of IS 17048, IS 10810 (Pt 7): 1984
226.		Water Immersion test (Effect of water on sheath of cable)- Tensile Strength	Table-2, III). f).vi), Cl.5.13, of IS 17048, IS 10810 (Pt 7): 1984
227.		Smoke Density	Table-2, III). f).vi), Cl.5.6, of IS 7048, IS 10810 (Pt 63): 1993
228.		Temperature Index Test	Table-2, III). e). iv), Cl. 5.5, of IS 17048, IS 10810 (Pt -64): 1984
229.		Temperature Index	Table-2, III). e). iv), Cl. 5.5, of IS 17048, ASTM D 2863-09: 1995
230.		Oxygen Index Test	Table-2, III). e). i), Cl. 5.4, of IS 17048, ASTM D 2863-09: 1995

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	Cable and Accessories		
231.		Test on Filers/Dummy Cores and Binder Tapes/Identification Threads (if any) Assessment of Halogen	Table-2, III). d). i), Cl. 5.7, Annex D of IS 17048, IS 10810(Pt-59): 1984
232.	Cables for motor vehicles	Annealing test for Copper Conductor	Cl. 12.1, a) of IS 2465, Cl.7.1.2, 7.2.3 of IS 8130, IS 10810 (Pt 1): 1984
233.		Per sulphate test for copper	Cl. 12.1, b) of IS 2465, Cl.7.1.1 of IS 8130, IS 10810 (Pt.4): 1984
234.		Conductor resistance	Cl. 12.1, c) of IS 2465, Cl. 7.3 Table-3of IS 8130, IS 10810 (Pt 5): 1984
235.		Test for thickness of Insulation and Sheath and other dimensional checks	Cl. 12.1 d) of IS 2465, IS 10810 (Pt 6): 1984
236.		Tensile strength of elastomer insulation& sheath	Cl. 12.1, f), 1) of IS 2465, Cl.4.1 Table 2& 3 of IS 6380, IS 10810 (Pt.7): 1984
237.		Elongation at break of insulation & sheath	Cl. 12.1, e), 1) of IS 2465, Cl. 4.1 (Table- 1,2) of IS 5831, IS 10810 (Pt 7): 1984
238.		Tensile strength of insulation & sheath	Cl. 12.1, e), 1) if IS 2465, Cl. 4.1 (Table- 1,2) of IS 5831, IS 10810 (Pt 7): 1984
239.		Ageing in air oven- Elongation	Cl. 12.1, e), 2) of IS 2465, Cl. 4.1 (Table- 1, 2) IS 5831, IS 10810 (Pt

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	Cable and Accessories		
			11): 1984
240.		Ageing in air oven- Tensile strength	Cl. 12.1, e), 2) of IS 2465, Cl. 4.1 (Table-1, 2) IS 5831, IS 10810 (Pt 11): 1984
241.		Loss of mass test	Cl. 12.1, e), 3) of IS 2465, Cl. 4.1 (Table1, 2) of IS 5831, IS 10810 (Pt 10): 1984
242.		Hot deformation test	Cl. 12.1, e), 4) of IS 2465, Cl. 4.1 (Table1,2) of IS 5831, IS 10810 (Pt 15): 1984
243.		Heat shock test	Cl. 12.1, e) ,5) of IS 2465, Cl. 4.1 (Table- 1,2) of IS 5831, IS 10810 (Pt 14): 1984
244.		Shrinkage test	Cl. 12.1, e), 6) of IS 2465, Cl. 4.1 (Table- 1,2) of IS 5831, IS 10810 (Pt 12): 1984
245.		Elongation at break of elastomer insulation& sheath	Cl. 12.1, f), 1) of IS 2465, Cl.4.1 Table 2&3 IS 6380, IS 10810 (Pt.7): 1984
246.		Ageing in oxygen bomb-Tensile strength	Cl. 12.1, f), 3) of IS 2465, Cl. 4.1, Table 2 of IS 6380, IS 10810 (Pt.16): 1984
247.		Ageing in oxygen bomb-Elongation	Cl. 12.1, f), 3) of IS 2465, Cl. 4.1, Table2 of IS 6380, IS 10810 (Pt.16): 1984

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	Cable and Accessories		
248.		High voltage (water immersion) test	Cl. 12.1, g) Cl.14.1,14.3 of IS 2465, IS 10810 (Pt.45): 1984
249.		Capacitance test	Cl. 12.1, h), 16 of IS 2465, Cl. 4.1 Table 2 of IS 6380: 1984
250.		Ozone resistance test for ignition cable	Cl. 12.1, j), 17 of IS 2465, Cl. 4.1, Table 2 of IS 6380: 1984
251.		Effect of heat on flexibility for ignition cable	Cl. 12.1, k), Cl. 18, of IS 2465: 1984
252.		Effect of oil for ignition cable	Cl. 12.1, m), Cl. 19, 19.1 of IS 2465: 1984
253.		Effect of lubricating oil, brake fluid, diesel and petrol	Cl. 12.1, n), Cl. 20 of IS 2465: 1984
254.		Effect of cooling on flexibility	Cl. 12.4, a) Cl. 21, 21.1 of IS 2465: 1984
255.		Flammability test	Cl. 12.4, b), Cl. 22, 22.1of IS 2465, IS 10810 (Pt 53): 1984
256.	Armoured Optical Fibre Cable for Underground Duct Application	Absorption Coefficient @ 375nm KAB/M	TEC 85170 /ASTM D 3349
257.		Brittleness Temperature % Fail @<-76°C	TEC 85170 /ASTM D 746
258.	Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of	UV Radiation Test	ASTM G-154-12a ASTM G-53-96 ASTM G-154 ASTM G-154-06

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	Cable and Accessories		
	Non-Metallic Materials		ASTM G-151-00 ASTM G-155-04a ASTM G-154-00a
259.	Armoured Optical Fibre Cable for Underground Duct Application	Anti Termide/ Rodent Test	TEC 85170
260.	Standard Test Method for Rubber Property	Hydrolytic Stability Test	ASTM D 3137-81
261.	Power cables with extruded insulation and their accessories	Water Penetration Test/Water Tightness test	IEC 60502 (Part 2) IS 7098 (Part 3)
262.	Test Method for vertical tray flame test	Flammability test (Vertical Tray Flame Test)	IEEE 383
263.	Power cable for the distribution of electrical energy standard for central thermos couple extension and instrumentation cables Test method for thermoplastic insulation and jacket for wires and cables	Accelerated Water Absorption Test	IS :10810 (P-28) NEMA WC-70 NEMA WC-5 NEMA WC-57 NEMA WC-53 ASTM D 2633-02
264.	Test Methods for thermoplastic insulation and jacket for wires & cables	Dielectric strength retention test	ASTM-D 2633-02 NEMA WC-5 ANSI/NEMA WC-70

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Electrical Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Cable and Accessories		
	Power cables for the distribution of electrical energy Standard for control thermocouple		NEMA WC-57 NEMA WC-53
265.	Thin-Walled flexible elastomeric cable	Tracking Resistance Test	FLRS/SPEC/ELC/0019 REV 2 / EN 50397 (Part 1)
266.	Determination of degree of acidity (corrosively) of gases by measuring pH and conductivity	pH and conductivity test	IEC 60754-2 BS 6425 (Part 2)
267.	EC Grade aluminium rod produced by continuous casting and rolling	Measurement of dimensions	IS 5484: 1997
268.		Resistivity & Conductivity test	IS 5484: 1997
269.		Tensile strength	IS 1608: 1995& IS 5484: 1997

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
1.	Information Technology Equipment	Components	IS13252(Part 1): 2010 (Cl.1.5)
2.		Components	IEC 60950-1: 2005 (Cl.1.5) (Withdrawn on December 20, 2020)
3.		Power Interface	IS 13252(Part 1): 2010 (Cl. 1.6)
4.		Power Interface	IEC 60950-1: 2005 (Cl. 1.6) (Withdrawn on December 20, 2020)
5.		Marking and Instructions	IS 13252(Part 1): 2010 (Cl. 1.7)
6.		Marking and Instructions	IEC 60950-1: 2005 (Cl. 1.7) (Withdrawn on December 20, 2020)
7.		Durability	IS 13252(Part 1) 2010 (Cl. 1.7.11)
8.		Durability	IEC 60950-1: 2005 (Cl. 1.7.11) (Withdrawn on December 20, 2020)
9.		Protection from Electric shock and energy hazards	IS 13252(Part 1): 2010 (Cl. 2.1)
10.		Protection from Electric shock and energy hazards	IEC 60950-1: 2005 (Cl. 2.1) (Withdrawn on December 20, 2020)
11.		SELV circuits	IS 13252(Part 1): 2010 (Cl. 2.2)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
12.		SELV circuits	IEC 60950-1: 2005 (Cl. 2.2) (Withdrawn on December 20, 2020)
13.		Limits of TNV circuits	IS 13252 (Part 1): 2010 (Cl. 2.3)
14.		Limits of TNV circuits	IEC 60950-1: 2005 (Cl. 2.3) (Withdrawn on December 20, 2020)
15.		Limited current circuits	IS 13252(Part 1): 2010 (Cl. 2.4)
16.		Limited current circuits	IEC 60950-1: 2005 (Cl. 2.4) (Withdrawn on December 20, 2020)
17.		Limited power sources	IS 13252(Part 1): 2010/ (Cl. 2.5)
18.		Limited power sources	IEC 60950-1: 2005 (Cl. 2.5) (Withdrawn on December 20, 2020)
19.		Provision for Earthing & Bonding	IS 13252(Part 1): 2010 (Cl. 2.6)
20.		Provision for Earthing & Bonding	IEC 60950-1: 2005 (Cl. 2.6) (Withdrawn on December 20, 2020)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
21.		Overcurrent and earth fault protection in primary circuits (Cl.2.7)	IS 13252(Part 1): 2010 (Cl. 2.7)
22.		Overcurrent and earth fault protection in primary circuits (Cl.2.7)	IEC 60950-1: 2005) (Cl. 2.7) (Withdrawn on December 20, 2020)
23.		Safety interlocks	IS 13252(Part 1): 2010 (Cl. 2.8)
24.		Safety interlocks	IEC 60950-1: 2005) (Cl. 2.8) (Withdrawn on December 20, 2020)
25.		Electrical Insulation	IS 13252(Part 1): 2010 (Cl. 2.9)
26.		Electrical Insulation	IEC 60950-1: 2005 (Cl. 2.9) (Withdrawn on December 20, 2020)
27.		Clearances, Creepage Distance and Distance Through Insulation	IS 13252(Part 1: 2010 (Cl. 2.10)
28.		Clearances, Creepage Distance and Distance Through Insulation	IEC 60950-1: 2005 (Cl. 2.10) (Withdrawn on December 20, 2020)
29.		Wiring, Connection and	IS 13252(Part 1): 2010 (Cl. 3.0 &
30.		Wiring, Connection and supply	IEC 60950-1: 2005 (Cl. 3.0 & 3.1) (Withdrawn on December 20,

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
			2020)
31.		Connection to a mains supply Wiring connections & supply	IS 13252(Part 1) Cl. 3.2: 2010 Cl. 3.2: 2005
32.		Connection to a mains supply Wiring connections & supply	IEC 60950-1 Cl. 3.2: 2005 (Withdrawn on December 20, 2020)
33.		Wiring terminals for connection of external	IS 13252(Part 1): 2010 (Cl. 3.3)
34.		Wiring terminals for connection of external conductors	IEC 60950-1: 2005 (Cl. 3.3) (Withdrawn on December 20, 2020)
35.		Disconnection from the mains supply	IS 13252(Part 1): 2010 (Cl. 3.4)
36.		Disconnection from the mains supply	IEC 60950-1: 2005 (Cl. 3.4) (Withdrawn on December 20, 2020)
37.		Interconnection of equipment	IS 13252(Part 1): 2010 (Cl. 3.5)
38.		Interconnection of equipment	IEC 60950-1: 2005 (Cl. 3.5) (Withdrawn on December 20, 2020)
39.		Physical Requirement Stability	IS 13252(Part 1): 2010 (Cl. 4.1)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
40.		Physical Requirement Stability	IEC 60950-1: 2005 (Cl. 4.1) (Withdrawn on December 20, 2020)
41.		Mechanical Strength	IS 13252(Part 1): 2010 (Cl. 4.2.1 to 4.2.7)
42.		Mechanical Strength	IEC 60950-1:2005 (Cl. 4.2.1 to 4.2.7) (Withdrawn on December 20, 2020)
43.		Design and Construction	IS 13252(Part 1): 2010 (Cl. 4.3)
44.		Design and Construction	IEC 60950-1: 2005 (Cl. 4.3) (Withdrawn on December 20, 2020)
45.		Protection against hazardous moving parts	IS 13252(Part 1): 2010 (Cl. 4.4)
46.		Protection against hazardous moving parts	IEC 60950-1: 2005 (Cl. 4.4) (Withdrawn on December 20, 2020)
47.		Thermal Requirements	IS 13252(Part 1): 2010 (Cl. 4.5)
48.		Thermal Requirements	IEC 60950-1: 2005 (Cl. 4.5) (Withdrawn on December 20, 2020)
49.		Openings in enclosure	IS 13252(Part 1): 2010 (Cl. 4.6)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
50.		Openings in enclosure	IEC 60950-1: 2005 (Cl. 4.6) (Withdrawn on December 20, 2020)
51.		Resistance to Fire	IS 13252(Part 1): 2010 (Cl. 4.7)
52.		Resistance to Fire	IEC 60950-1: 2005 (Cl. 4.7) (Withdrawn on December 20, 2020)
53.		Touch Current and protective conductor current	IS 13252(Part 1): 2010 (Cl. 5.1)
54.		Touch Current and protective conductor current	IEC 60950-1: 2005 (Cl. 5.1) (Withdrawn on December 20, 2020)
55.		Electric Strength	IS 13252(Part 1): 2010 (Cl. 5.2)
56.		Electric Strength	IEC 60950-1: 2005 (Cl. 5.2) (Withdrawn on December 20, 2020)
57.		Abnormal operating and fault conditions	IS 13252(Part 1): 2010 (Cl. 5.3)
58.		Abnormal operating and fault conditions	IEC 60950-1: 2005 (Cl. 5.3) (Withdrawn on December 20, 2020)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
59.		Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	IS 13252(Part 1): 2010 (Cl. 6.1)
60.		Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	IEC 60950-1: 2005 (Cl. 6.1) (Withdrawn on December 20, 2020)
61.		Protection of equipment users from over voltages on telecommunication Networks	IS 13252(Part 1): 2010 (Cl. 6.2)
62.		Protection of equipment users from over voltages on telecommunication Networks	IEC 60950-1: 2005 (Cl. 6.2) (Withdrawn on December 20, 2020)
63.		Protection of the telecommunication wiring system from overheating	IS 13252(Part 1): 2010 (Cl. 6.3)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
64.		Protection of the telecommunication wiring system from overheating	IEC 60950-1: 2005 (Cl. 6.3) (Withdrawn on December 20, 2020)
65.		Connection to Cable distribution systems (General)	IS 13252(Part1) Cl. 7.1:2010
66.		Connection to Cable distribution systems (General)	IEC 60950-1 Cl.7.1:2005 (Withdrawn on December 20, 2020)
67.		Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	IS 13252(Part 1): 2010 (Cl. 7.2)
68.		Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	IEC 60950-1: 2005 (Cl. 7.2) (Withdrawn on December 20, 2020)
69.		Protection of equipment users from over voltages surge on the cable distribution system	IS 13252(Part 1): 2010 (Cl. 7.3)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
70.		Protection of equipment users from over voltages surge on the cable distribution system	IEC 60950-12005 (Cl. 7.3) (Withdrawn on December 20, 2020)
71.		Insulation between primary circuits and cable distribution systems	IS 13252(Part 1): 2010 (Cl. 7.4)
72.		Insulation between primary circuits and cable distribution systems	IEC 60950-1: 2005 (Cl. 7.4) (Withdrawn on December 20, 2020)
73.		Test for Resistance to heat and fire	IS 13252(Part 1) Annex A: 2010
74.		Test for Resistance to heat and fire	IEC 60950-1 Annex A: 2005 (Withdrawn on December 20, 2020)
75.		Motor tests under abnormal conditions	IS 13252(Part 1) Annex B: 2010
76.		Motor tests under abnormal conditions	IEC 60950-1 Annex B: 2005 (Withdrawn on December 20, 2020)
77.		Transformers	IS 13252(Part 1) Annex C: 2010

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
78.		Transformers	IEC 60950-1 Annex C: 2005 (Withdrawn on December 20, 2020)
79.		Requirement for the mounting means of rack-mounted equipment	IS 13252(Part 1) Annex DD: 2010
80.	Mobile phone handsets: Part 3 Indian language support for mobile phone handsets - Specific requirements	Requirement for the mounting means of rack-mounted equipment	IEC 60950-1 Annex DD: 2005 (Withdrawn on December 20, 2020)
81.		Marking	IS 16333 (Part: 3) 2022 Cl. 6
82.		Marking	IS 16350 2016 Cl. 6
83.		Inputting of text	IS 16333 (Part: 3): 2022 Cl. 5.1
84.		Inputting of text	IS 16350: 2016
85.		Messaging Readability	IS 16333 (Part: 3): 2022 Cl. 5.2
86.	Household and similar electrical appliances - Safety - Particular requirements for battery chargers	Classification	IEC 60335-2-29: 2016 Cl. 6
87.		Verification of Marking & Instructions	IEC 60335-2-29: 2016 Cl. 7
88.		Protection against access to live parts	IEC 60335-2-29: 2016 Cl. 8
89.		Power input and current	IEC 60335-2-29: 2016 Cl. 10
90.		Heating	IEC 60335-2-29: 2016 Cl. 11

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
91.		Leakage current and electric strength at operating temperature	IEC 60335-2-29: 2016 Cl. 13
92.		Transient overvoltage	IEC 60335-2-29: 2016 Cl. 14
93.		Moisture resistance	IEC 60335-2-29: 2016 Cl. 15
94.		Leakage current and electric strength	IEC 60335-2-29: 2016 Cl. 16
95.		Overload protection of transformers and associated circuits	IEC 60335-2-29: 2016 Cl. 17
96.		Abnormal operations	IEC 60335-2-29; 2016 Cl. 19
97.		Stability and mechanical hazards	IEC 60335-2-29: 2016 Cl. 20
98.		Mechanical Strength	IEC 60335-2-29: 2016 Cl. 21
99.		Construction	IEC 60335-2-29: 2016 Cl.22
100.		Internal Wiring	IEC 60335-2-29: 2016 Cl.23
101.		Verification of Components	IEC 60335-2-29: 2016 Cl. 24
102.		Supply connection and external flexible cords	IEC 60335-2-29: 2016 Cl. 25
103.		Terminals for external conductors	IEC 60335-2-29: 2016 Cl. 26
104.		Provision for Earthing	IEC 60335-2-29: 2016 Cl. 27

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	IT Equipment		
105.		Screws and connections	IEC 60335-2-29: 2016 Cl. 28
106.		Clearances, Creepage distances and solid insulation	IEC 60335-2-29: 2016 Cl. 29
107.		Resistance to heat and fire	IEC 60335-2-29: 2016 Cl. 30
108.		Resistance to rusting	IEC 60335-2-29: 2016 Cl. 31
109.		Radiation, toxicity and similar hazards	IEC 60335-2-29: 2016 Cl. 32

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Power Supplies and Stabilizers		
1.	Uninterruptible Power Systems (UPS) Part 1 General and Safety Requirements for UPS	Components	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 4.5
2.		Power Interfaces	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 4.6
3.		High leakage current	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 4.7.13
4.		Durability of markings	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 4.7.16
5.		Protection for UPS intended to be used in operator access areas	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.1.1
6.		Fundamental design requirements (Protection Against Electric Shock and Energy) (Access to Energized Parts)	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.1.2
7.		Protection for UPS intended to be used in restricted access areas	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.1.3
8.		Back-Feed Protection	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.1.4
9.		Safety Extra Low Voltage Circuits – SELV	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.2.1
10.		Telephone network voltage circuits – TNV	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.2.2

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	Power Supplies and Stabilizers		
11.		Limited Current Circuits	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.2.3
12.		External signalling circuits	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.2.4
13.		Limited Power Sources	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.2.5
14.		Protective earthing and bonding	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.3
15.		AC and DC power isolation	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.4
16.		Overcurrent and earth fault protection	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.5
17.		Protection of personnel – Safety interlocks	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 5.6
18.		Clearances, creepage distances and distances through insulation	IS 16242 (Part 1) Cl. 5.7: 2014/ IEC 62040-1 Cl. 5.7: 2017
19.		General	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 6.1
20.		Connection to power	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 6.2
21.		Wiring terminals for external power conductors	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 6.3

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Power Supplies and Stabilizers		
22.		Stability	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.2
23.		Mechanical strength	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.3
24.		Construction details	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.4
25.		Construction details-Openings	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.4.2
26.		Resistance to fire	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.5
27.		Battery location	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.6
28.		Temperature rise	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 7.7
29.		General provisions for earth leakage	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 8.1
30.		Electric strength	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 8.2
31.		Abnormal operating and fault conditions	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 8.3
32.		Connection to telecommunication networks	IS 16242 (Part 1): 2014/ IEC 62040-1: 2017 Cl. 9

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
1.	Audio, Video and Similar Electronic Apparatus - Safety Requirements	Marking and Instructions	IS 616: 2017 (Cl. 5)
2.		Marking and Instructions	IEC 60065: 2014 (Cl. 5) Withdrawn
3.		Heating Under Normal Operating Conditions	IS 616: 2017 (Cl. 7)
4.		Heating Under Normal Operating Conditions	IEC 60065: 2014 (Cl. 7) Withdrawn
5.		Constructional requirement with regard to the protection against electric shock	IS 616: 2017 (Cl. 8)
6.		Constructional requirement with regard to the protection against electric shock	IEC 60065: 2014 (Cl. 8) Withdrawn
7.		Electrical Shock Hazard Under Normal Operating Conditions	IS 616: 2017 (Cl. 9)
8.		Electrical Shock Hazard Under Normal Operating Conditions	IEC 60065: 2014 (Cl. 9) Withdrawn
9.		Insulation Requirements	IS 616: 2017 (Cl. 10)
10.		Insulation Requirements	IEC 60065: 2014 (Cl. 10) Withdrawn
11.		Fault Conditions	IS 616: 2017 (Cl. 11)

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
12.		Fault Conditions	IEC 60065: 2014 (Cl. 11) Withdrawn
13.		Mechanical Strength	IS 616: 2017 (Cl. 12)
14.		Mechanical Strength	IEC 60065: 2014 (Cl. 12) Withdrawn
15.		Clearances and Creepage Distances, Components	IS 616: 2017 (Cl. 13, Cl.14)
16.		Clearances and Creepage Distances, Components	IEC 60065: 2014 (Cl. 13) Withdrawn
17.		Components	IS 616: 2017 (Cl.14)
18.		Components	IEC 60065: 2014 (Cl.14) Withdrawn
19.		Terminals	IS 616: 2017 (Cl. 15)
20.		Terminals	IEC 60065: 2014 (Cl. 15) Withdrawn
21.	Audio/Video, Information and Communication Technology Equipment	External flexible cords	IS 616: 2017 Cl. 16
22.		External flexible cords	IEC 60065: 2014 Cl. 16 Withdrawn
23.		Electrical connections & mechanical fixing	IS 616: 2017 (Cl. 17)

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
24.		Electrical connections & mechanical fixing	IEC 60065: 2014 (Cl. 17) Withdrawn
25.		Stability & mechanical hazards	IS 616: 2017 (Cl. 19)
26.		Stability & mechanical hazards	IEC 60065: 2014 (Cl. 19) Withdrawn
27.		Resistance to fire	IS 616: 2017 Cl. 20
28.		Resistance to fire	IEC 60065: 2014 Cl. 20 Withdrawn
29.		Apparatus to be connected to Telecommunication Network	IS 616 :2017 Annexure B
30.		Apparatus to be connected to Telecommunication Network	IEC 60065: 2014 Annexure B Withdrawn
31.		General requirements	Cl.4, Cl.4.1, Cl.4.1.2, Cl.4.1.3, Cl.4.1.4, Cl.4.1.5, Cl.4.1.6, Cl.4.1.7, 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, Cl.4.1.15, IS/IEC 62368-1: 2018
32.		Energy source classifications	IS/IEC 62368-1: 2018 Cl.4.2, Cl.4.2.1, Cl.4.2.2, Cl.2.3, Cl.4.2.4
33.		Protection against energy sources	IS/IEC 62368-1: 2018 Cl.4.3,

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Electronics Testing			
Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
			Cl.4.3.1, Cl.4.3.2, Cl.4.3.3, Cl.4.3.4, Cl.4.3.5
34.		Safeguards	IS/IEC 62368-1: 2018 Cl.4.4, Cl.4.4.1, Cl.4.4.2, Cl.4.4.3, Cl.4.4.4, Cl.4.4.5
35.		Explosion	IS/IEC 62368-1: 2018 Cl.4.5, Cl.4.5.1, Cl.4.5.2,
36.		Fixing of conductors	IS/IEC 62368-1: 2018 Cl.4.6, Cl.4.6.1, Cl.4.6.2,
37.		Equipment for direct insertion into mains socket-outlets	IS/IEC 62368-1: 2018 Cl.4.7, Cl.4.7.1, Cl.4.7.2, Cl.4.7.3,
38.		Equipment containing coin / button cell batteries	IS/IEC 62368-1: 2018 Cl.4.8, Cl.4.8.1, Cl.4.8.2, Cl.4.8.3, Cl.4.8.4, Cl.4.8.5,
39.		Likelihood of fire or shock due to entry of conductive objects	IS/IEC 62368-1: 2018 Cl.4.9
40.		Components requirements	IS/IEC 62368-1: 2018 Cl.4.10, Cl.4.10.1, Cl.4.10.2
41.		Electrically-caused injury, General	IS/IEC 62368-1: 2018 Cl.5, Cl.5.1
42.		Classification and limits of electrical energy sources	IS/IEC 62368-1: 2018 Cl.5.2, Cl.5.2.1, Cl.5.2.2,
43.		Protection against electrical energy sources	IS/IEC 62368-1: 2018 Cl.5.3, Cl.5.3.1, Cl.5.3.2

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
44.		Insulation materials and requirements	IS/IEC 62368-1: 2018 Cl.5.4
45.		General	IS/IEC 62368-1: 2018 Cl.5.4.1
46.		Clearances	IS/IEC 62368-1: 2018 Cl.5.4.2
47.		Creepage distances	IS/IEC 62368-1: 2018 Cl.5.4.3
48.		Solid insulation	IS/IEC 62368-1: 2018 Cl.5.4.4
49.		Antenna terminal insulation	IS/IEC 62368-1: 2018 Cl.5.4.5
50.		Insulation of internal wire as a part of a supplementary safeguard	IS/IEC 62368-1: 2018 Cl.5.4.6
51.		Tests for semiconductor components and for cemented joints	IS/IEC 62368-1: 2018 Cl.5.4.7
52.		Humidity conditioning	IS/IEC 62368-1: 2018 Cl.5.4.8
53.		Electric strength test	IS/IEC 62368-1: 2018 Cl.5.4.9
54.		Safeguards against transient voltages from external circuits	IS/IEC 62368-1: 2018 Cl.5.4.10
55.		Separation between external circuits and earth	IS/IEC 62368-1: 2018 Cl.5.4.11
56.		Insulating liquid	IS/IEC 62368-1: 2018 Cl.5.4.12
57.		Components as safeguards	IS/IEC 62368-1: 2018 Cl.5.5

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	Audio Video Equipment		
58.		Protective conductor	IS/IEC 62368-1: 2018 Cl.5.6
59.		General	IS/IEC 62368-1: 2018 Cl.5.6.1
60.		Requirements for protective conductors	IS/IEC 62368-1: 2018 Cl.5.6.2
61.		Requirements for protective earthing conductors	IS/IEC 62368-1: 2018 Cl.5.6.3
62.		Requirements for protective bonding conductors	IS/IEC 62368-1: 2018 Cl.5.6.4
63.		Terminals for protective conductors	IS/IEC 62368-1: 2018 Cl.5.6.5
64.		Resistance of the protective bonding system	IS/IEC 62368-1: 2018 Cl.5.6.6
65.		Reliable connection of a protective earthing conductor	IS/IEC 62368-1: 2018 Cl.5.6.7
66.		Functional earthing	IS/IEC 62368-1: 2018 Cl.5.6.8
67.		Prospective touch voltage, touch current and protective conductor	IS/IEC 62368-1: 2018 Cl.5.7
68.		General	IS/IEC 62368-1: 2018 Cl.5.7.1
69.		Measuring devices and networks	IS/IEC 62368-1: 2018 Cl.5.7.2
70.		Equipment set-up, supply connections and earth connections	IS/IEC 62368-1: 2018 Cl.5.7.3

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
71.		Unearthed accessible parts	IS/IEC 62368-1: 2018 Cl.5.7.4 Cl.5.7.4,Cl.5.7.4
72.		Earthed accessible conductive parts	IS/IEC 62368-1: 2018 Cl.5.7.5
73.		Requirements when touch current exceeds ES2 limits	IS/IEC 62368-1: 2018 Cl.5.7.6
74.		Prospective touch voltage and touch current associated with	IS/IEC 62368-1: 2018 Cl.5.7.7 IS/IEC 62368-1: 2018
75.		Summation of touch currents from external circuits	IS/IEC 62368-1: 2018 Cl.5.7.8
76.		Backfeed safeguard in battery backed up supplies	IS/IEC 62368-1: 2018 Cl.5.8
77.		Electrically-caused fire	IS/IEC 62368-1: 2018 Cl.6
78.		General	IS/IEC 62368-1: 2018 Cl.6.1
79.		Classification of power sources (PS) and potential ignition sources (PIS)	IS/IEC 62368-1: 2018 Cl.6.2
80.		Safeguards against fire under normal operating conditions and abnormal operating conditions	IS/IEC 62368-1: 2018 Cl.6.3
81.		Safeguards against fire under single fault conditions	IS/IEC 62368-1: 2018 Cl.6.4

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
82.		Internal and external wiring	IS/IEC 62368-1: 2018 Cl.6.5
83.		Safeguards against fire due to the connection of additional equipment	IS/IEC 62368-1: 2018 Cl.6.6
84.		Injury caused by hazardous substances	IS/IEC 62368-1: 2018 Cl.7, Cl.7.1, Cl.7.2, Cl.7.3, Cl.7.4, Cl.7.5, Cl.7.6
85.		Mechanically-caused injury	IS/IEC 62368-1: 2018 Cl.8, Cl.8.1, Cl.8.2, 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.8.11, Cl.8.12
86.		Thermal burn injury	IS/IEC 62368-1: 2018 Cl.9
87.		General	IS/IEC 62368-1: 2018 Cl.9.1
88.		Thermal energy source classifications	IS/IEC 62368-1: 2018 Cl.9.2
89.		Touch temperature limits	IS/IEC 62368-1: 2018 Cl.9.3
90.		Safeguards against thermal energy sources	IS/IEC 62368-1: 2018 Cl.9.4
91.		Requirements for safeguards	IS/IEC 62368-1: 2018 Cl.9.5

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Sl. No.	**Product (S) Material of Test**	**Specific Tests Performed**	**Test Method**
	Audio Video Equipment		
92.		Normal operating condition tests, abnormal operating condition	IS/IEC 62368-1: 2018 Annex B
93.		Equipment markings, instructions, and instructional safeguards	IS/IEC 62368-1: 2018 Annex F
94.		Components	IS/IEC 62368-1: 2018 Annex G
95.		Equipment containing batteries and their protection circuits	IS/IEC 62368-1: 2018 Annex M
96.		Measurement of creepage distances and clearances	IS/IEC 62368-1: 2018 Annex O
97.		Tests for resistance to heat and fire	IS/IEC 62368-1: 2018 Annex S
98.		Mechanical strength tests	IS/IEC 62368-1: 2018 Annex T
99.		Determination of accessible parts	IS/IEC 62368-1: 2018 Annex V

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Sl. No.	Product (S) Material of Test	Specific Tests Performed	Test Method
	Light Sources (Electric Lamp)		
1.	Solid State Lighting (LED) Product Modules for General Lighting	Electrical Instrumentation	Cl. 8 IES LM-79 -08 & Cl. 10 IS 16106: 2012
2.		Total Luminous Flux Measurement	Cl. 9 IES LM-79 -08 & Cl. 11 of IS 16106: 2012
3.		Luminous Efficacy	Cl. 11 IES LM-79-08 & Cl. 13 of IS 16106: 2012
4.		Color Characteristics	Cl 12 IES LM-79-08 & Cl.14 of IS 16106: 2012
5.	Electrical, electronic and other items	Ra (color rendering index) measurement test	Clause No. 8 (xii) RDSO/PE/SPEC/TL/0091-2016 (REV-1)
6.		Lux measurement	Clause No. 8 (xiii) RDSO/PE/SPEC/TL/0091-2016 (REV-1)