

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Standard Testing and Compliance

Plot No.-14/7, Parmeshwari Colony, Sector 31, Mathura Road
Faridabad-121008, Haryana, 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/2025/0105

Valid from: 26 February 2025

Valid until: 25 February 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



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
1.	Household And Similar Electrical Appliances-Safety Part 1 General Requirements (Seventh Revision)	Marking and instructions	(Cl. 7) IS 302 (Part 1):2024/ IEC 60335-1:2020
2.		Protection against access to live parts	(Cl. 8) IS 302 (Part 1):2024/ IEC 60335-1:2020
3.		Power Input and current	(Cl. 10) IS 302 (Part 1):2024/ IEC 60335-1:2020
4.		Heating	(Cl. 11) IS 302 (Part 1):2024/ IEC 60335-1:2020
5.		Charging of metal-ion batteries	(Cl. 12) IS 302 (Part 1):2024/ IEC 60335-1:2020
6.		Leakage current and electric strength at operating temperature	(Cl. 13) IS 302 (Part 1):2024/ IEC 60335-1:2020
7.		Transient voltage	(Cl. 14) IS 302 (Part 1):2024/ IEC 60335-1:2020
8.		Moisture resistance	(15) IS 302 (Part 1):2024/ IEC 60335-1:2020
9.		Leakage current and electric strength	(Cl. 16) IS 302 (Part 1):2024/ IEC 60335-1:2020
10.		Overload protection of transformer	(Cl. 17) IS 302 (Part 1):2024/ IEC 60335-1:2020
11.		Abnormal operation	(Cl. 19) IS 302 (Part 1):2024/ IEC 60335-1:2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
12.	Household And Similar Electrical Appliances-Safety Part 1 General Requirements (Seventh Revision)	Stability and mechanical hazards	(Cl. 20) IS 302 (Part 1):2024/ IEC 60335-1:2020
13.		Mechanical strength	(Cl. 21) IS 302 (Part 1):2024/ IEC 60335-1:2020
14.		Construction	(Cl. 22) IS 302 (Part 1):2024/ IEC 60335-1:2020
15.		Internal wiring	(Cl. 23) IS 302 (Part 1):2024/ IEC 60335-1:2020
16.		Supply connection and external flexible cord	(Cl. 25) IS 302 (Part 1):2024/ IEC 60335-1:2020
17.		Terminals for External Conductors	(Cl. 26) IS 302 (Part 1):2024/ IEC 60335-1:2020
18.		Provision of protective earthing	(Cl. 27) IS 302 (Part 1):2024/ IEC 60335-1:2020
19.		Screw and Connections	(Cl. 28) IS 302 (Part 1):2024/ IEC 60335-1:2020
20.		Clearance creepage distance and solid insulation	(Cl. 29) IS 302 (Part 1):2024/ IEC 60335-1:2020
21.		Resistance to heat and fire	(Cl. 30) IS 302 (Part 1):2024/ IEC 60335-1:2020
22.		Resistance to Rusting	(Cl. 31) IS 302 (Part 1):2024/ IEC 60335-1:2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
23.	Induction Hobs	Marking and instructions	(Cl. 7) IS 302 (Part 2/sec 6): 2009 (Reaffirmed Year: 2014)/ IS 302 (Part 1):2024 (Cl. 7)
24.		Protection against access to live parts	(Cl. 8) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 8)
25.		Power Input and current test	(Cl. 10) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 10)
26.		Heating	(Cl. 11) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 11)
27.		Leakage current and electric strength at operating Temperature	(Cl. 13) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 13.0)
28.		Transient voltage	(Cl. 14) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 14)
29.		Moisture resistance	(Cl. 15) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 15)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
30.	Induction Hobs	Leakage current and electric strength	(Cl. 16) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 16)
31.		Overload protection of transformer	(Cl. 17) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 17)
32.		Abnormal operation	(Cl. 19) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 19)
33.		Stability and mechanical hazards	(Cl. 20) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 20)
34.		Mechanical strength	(Cl. 21) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 21)
35.		Construction	(Cl. 22) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 22)
36.		Internal wiring	(Cl. 23) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 23)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
37.	Induction Hobs	Supply connection and external flexible cord	(Cl. 25) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 25)
38.		Terminals for External Conductors	(Cl. 26) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 26)
39.		Provision of protective earthing	(Cl. 27) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 27)
40.		Screw and Connections	(Cl. 28) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 28)
41.		Clearance creepage distance and solid insulation	(Cl. 29) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 29)
42.		Resistance to heat and fire	(Cl. 30) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 30)
43.		Resistance to Rusting	(Cl. 31) IS 302 (Part 2/sec 6):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 31)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
44.	Rice Cooker	Marking and instructions	(Cl. 7) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 7)
45.		Protection against access to live parts	(Cl. 8) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 8)
46.		Power Input and current test	(Cl. 10) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 10)
47.		Heating	(Cl. 11) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 11)
48.		Leakage current and electric strength at operating Temperature	(Cl. 13) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 13)
49.		Transient voltage	(Cl. 14) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 14)
50.		Moisture resistance	(Cl. 15) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 15)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
51.	Rice Cooker	Leakage current and electric strength	(Cl. 16) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 16)
52.		Overload protection of transformer	(Cl. 17) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 17)
53.		Abnormal operation	(Cl. 19) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 19)
54.		Stability and mechanical hazards	(Cl. 20) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 20)
55.		Mechanical strengths	(Cl. 21) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 21)
56.		Construction	(Cl. 22) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 22)
57.		Internal wiring	(Cl. 23) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 23)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
58.	Rice Cooker	Supply connection and external flexible cord	(Cl. 25) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 25)
59.		Terminals for External Conductors	(Cl. 26) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 26)
60.		Provision of protective earthing	(Cl. 27) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 27)
61.		Screw and Connections	(Cl. 28) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 28)
62.		Clearance creepage distance and solid insulation	(Cl. 29) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 29)
63.		Resistance to heat and fire	(Cl. 30) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 30)
64.		Resistance to Rusting	(Cl. 31) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 31)
65.		Classification	(Cl. 6) IS 302 (Part 2/sec 15):2009 (Reaffirmed Year:2014)/ IS 302 (Part 1):2024 (Cl. 6)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
1.	Secondary Cells & Batteries for portable application (Part 1 Nickel system)	Parameter measurement tolerances	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 4.0)
2.		General	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.1)
3.		Insulation & Wiring	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.2)
4.		Venting	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.3)
5.		Temperature, voltage and current measurement	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.4)
6.		Terminal contacts	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.5)
7.		Assembly of cells into batteries	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.6)
8.		Quality plan	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 5.7)
9.		Type test and sample size	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl. No. 6.0)
10.		Charging procedure for testing purposes	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl. No. 7.1)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
11.	Secondary Cells & Batteries for portable application (Part 1 Nickel system)	Continuous Low-Rate Charge (cells)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.2.1)
12.		Vibration	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.2.2)
13.		Case stress at high ambient temperature (battery)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.2.3)
14.		Temperature cycling	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.2.4)
15.		Incorrect Installation (cells)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.1)
16.		External short circuit	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.2)
17.		Free fall	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.3)
18.		Mechanical shock (Crash hazard)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.4)
19.		Thermal abuse (cells)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.5)
20.		Crushing of cells	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.6)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
21.	Secondary Cells & Batteries for portable application (Part 1 Nickel system)	Low pressure (cells)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.7)
22.		Overcharge	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.8)
23.		Forced discharge (cells)	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 7.3.9)
24.		Information for safety	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No.8)
25.		Cell marking	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 9.1)
26.		Battery marking	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 9.2)
27.		Caution for ingestion of small cells and batteries	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 9.3)
28.		Other information	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 9.4)
29.		Packaging	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 (Cl.No. 10.0)
30.		Recommendations to equipment manufacturers and battery assemblers	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 Annex A

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
31.	Secondary Cells & Batteries for portable application (Part 1 Nickel system)	Recommendations to the end-users	IS 16046 (Part 1): 2018 IEC 62133-1: 2017 Annex B
32.	Secondary Cells & Batteries containing Alkaline or other Non-Acid Electrolytes (Part 2 Lithium Systems)	Parameter measurement tolerances	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 4.0)
33.		General	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 5.1)
34.		Insulation & Wiring	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 5.2)
35.		Venting	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 5.3)
36.		Temperature, voltage and current measurement	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 5.4)
37.		Terminal contacts	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 5.5)
38.		Assembly of cells into batteries	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl. No. 5.6)
39.		Quality plan	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 5.7)
40.		Battery safety Components	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 5.8)
41.		Type test and sample size	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 6.0)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
42.	Secondary Cells & Batteries containing Alkaline or other Non-Acid Electrolytes (Part 2 Lithium Systems)	Charging procedure for testing purposes	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.1)
43.		Continuous Charging at constant voltage (cells)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.2.1)
44.		Case stress at high ambient Temperature (battery)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.2.2)
45.		External short circuit (cell)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.1)
46.		External short circuit (battery)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.2)
47.		Free fall	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.3)
48.		Thermal abuse (cells)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.4)
49.		Crush (cells)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.5)
50.		Over-charging of battery	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.6)
51.		Forced discharge (cells)	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.7)
52.		Vibration	IS 16046 (Part 2): 2018 / IEC 62133-2:2017(Cl.No. 7.3.8.1)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
53.	Secondary Cells & Batteries containing Alkaline or other Non-Acid Electrolytes (Part 2 Lithium Systems)	Mechanical Shock	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 7.3.8.2)
54.		General	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 8.1)
55.		Small cell and battery safety information	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 8.2)
56.		Cell marking	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 9.1)
57.		Battery marking	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 9.2)
58.		Caution for ingestion of small cells and batteries	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 9.3)
59.		Other information	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 9.4)
60.		Packaging and transport	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 (Cl.No. 10.0)
61.		Charging and discharging range of secondary lithium-ion cells for safe use	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 Annex A
62.		Measurement of the internal AC resistance for coin cell	IS 16046 (Part 2): 2018 / IEC 62133-2:2017 Annex D
63.	Secondary cells and batteries Containing Alkaline or other	Parameter measurement tolerances	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 4)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
64.	non-acid electrolytes secondary lithium cells and batteries for portable applications	Cell designation and marking	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 5.1)
65.		Charging procedure for testing purposes	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.2).
66.		Discharge performance at 20°C (rated capacity)	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.3.1)
67.		Discharge performance at -20°C	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.3.2)
68.		High-rate discharge capacity at 20°C	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.3.3)
69.		Charge (Capacity) retention and recovery	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.4)
70.		Charge (Capacity) recovery after long term storage	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.5)
71.		Endurance and cycle	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.6)
72.		Battery internal resistance	IS 16047 (Part 3): 2018/ IEC 61960-3: 2017 (Cl.No. 7.7)
73.	Secondary Cells and Batteries Containing Alkaline or Other	Parameter measurement tolerances	IS 16805: 2018/ IEC 62619: 2017 (Cl. No. 4)
74.	Non-Acid Electrolytes (For	General safety considerations	IS 16805: 2018/ IEC 62619: 2017 (Cl. No. 5.0)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Cells and Batteries			
75.	Lithium Cells and Batteries for Use In industrial Applications)	Type test conditions	IS 16805: 2018/ IEC 62619: 2017 (Cl. No. 6.0)
76.		Charging procedures for test purposes	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.1)
77.		External Short Circuit Test (cell or cell block)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.2.1)
78.		Impact Test (cell or cell block)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.2.2)
79.		Drop test	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.2.3)
80.		Thermal Abuse test (cell or cell block)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.2.4)
81.		Over charge test (cell or cell block)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.2.5)
82.		Forced discharge test (cell or cell block)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.2.6)
83.		Internal short-circuit (cell)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 7.3.2)
84.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes (For	General Requirements	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 8.1)
85.		Battery management system	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 8.2)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Cells and Batteries			
86.	Lithium Cells and Batteries for Use In industrial Applications)	Overcharge control of voltage (battery system)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 8.2.2)
87.		Overcharge control of current (battery system)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 8.2.3)
88.		Overheating control (battery system)	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 8.2.4)
89.		Information for safety	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 9.0)
90.		Marking and designation	IS 16805: 2018/ IEC 62619: 2017 (Cl.No. 10.0)
91.	Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes - Secondary Lithium Cells and Batteries for Use in Industrial Applications	Marking and designation	IS 16822: 2019/ IEC 62620:2014 (CL. 5.0)
92.		Cell designation	IS 16822: 2019/ IEC 62620:2014 (CL. 5.2)
93.		Battery designation	IS 16822: 2019/ IEC 62620:2014 (CL. 5.3)
94.		Charging procedure for Test purposes	IS 16822: 2019/ IEC 62620:2014 (CL. 6.2)
95.		Discharge performance at +25°C	IS 16822: 2019/ IEC 62620:2014 (CL. 6.3.1)
96.		Discharge performance at low temperature	IS 16822: 2019/ IEC 62620:2014 (CL. 6.3.2)
97.		High-rate permissible current	IS 16822: 2019/ IEC 62620:2014 (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		
98.		Charge (capacity) retention and recovery	IS 16822: 2019/ IEC 62620:2014 (CL. 6.4)
99.		Cell and battery internal resistance	IS 16822:2019/ IEC 62620:2014 (CL.6.5, 6.5.1, 6.5.2)
100.		Endurance	IS 16822: 2019/ IEC 62620:2014 (CL. 6.6)
101.		General	IS 16822: 2019/ IEC 62620:2014 (CL. 7.1)
102.		Sample size	IS 16822: 2019/ IEC 62620:2014 (CL. 7.2)
103.		Dimensions	IS 16822: 2019/ IEC 62620:2014 (CL. 7.3.1)
104.		Electrical tests	IS 16822: 2019/ IEC 62620:2014 (CL. 7.3.2)
105.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles	Test condition	IS 16893 (Part 2): 2018/ IEC 62660-2: 2010 (Cl. No. 4.0)
106.		Electrical measurement	IS 16893 (Part 2): 2018/ IEC 62660-2: 2010 (Cl.No. 5.0)
107.	Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles	Vibration	IS 16893 (Part 2): 2018/ IEC 62660-2: 2010 (Cl.No. 6.1.1)
108.		Mechanical Shock	IS 16893 (Part 2): 2018/ IEC 62660-2: 2010 (Cl.No. 6.1.2)
109.		Crush	IS 16893 (Part 2): 2018/ IEC 62660-2: 2010 (Cl.No. 6.1.3)

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Cells and Batteries			
110.		High temperature endurance (thermal test)	IS 16893 (Part 2): 2018/IEC 62660-2: 2010 (Cl.No. 6.2.1)	
111.		Temperature cycling	IS 16893 (Part 2): 2018/IEC 62660-2: 2010 (Cl.No. 6.2.2)	
112.		External short circuit	IS 16893 (Part 2): 2018/IEC 62660-2: 2010 (Cl.No. 6.3.1)	
113.		Overcharge	IS 16893 (Part 2): 2018/IEC 62660-2: 2010 (Cl.No. 6.3.2)	
114.		Forced discharge	IS 16893 (Part 2): 2018/IEC 62660-2: 2010 (Cl.No. 6.3.3)	
115.		Test condition	IS 16893 (Part 3): 2018/IEC 62660-3: 2016 (Cl.No. 4.0)	
116.		Electrical measurement	IS 16893 (Part 3): 2018/IEC 62660-3: 2016 (Cl.No. 5.0)	
117.		Vibration	IS 16893 (Part 3): 2018/IEC 62660-3: 2016 (Cl.No. 6.2.1)	
118.		Secondary Lithium-Ion Cells for the Propulsion of Electric Road Vehicles	Mechanical Shock	IS 16893 (Part 3): 2018/IEC 62660-3: 2016 (Cl.No. 6.2.2)
119.			Crush	IS 16893 (Part 3): 2018/IEC 62660-3: 2016 (Cl.No. 6.2.3)
120.			High temperature endurance (Thermal Test)	IS 16893 (Part 3): 2018/IEC 62660-3: 2016 (Cl.No. 6.3.1)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
121.		Temperature cycling	IS 16893 (Part 3): 2018/ IEC 62660-3: 2016 (Cl.No. 6.3.2)
122.		External short circuit	IS 16893 (Part 3): 2018/ IEC 62660-3: 2016 (Cl.No. 6.4.1)
123.		Overcharge	IS 16893 (Part 3): 2018/ IEC 62660-3: 2016 (Cl.No. 6.4.2)
124.		Forced discharge	IS 16893 (Part 3): 2018/ IEC 62660-3: 2016 (Cl.No. 6.4.3)
125.		Internal Short circuit test	IS 16893 (Part 3): 2018/ IEC 62660-3: 2016 (Cl.No. 6.4.4)
126.	Lithium metal and lithium ion cells & batteries	T1: Altitude simulation	(Test T.1), UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.1)
127.		T2: Thermal Test	(Test T.2) UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.2)
128.	Lithium metal and lithium ion cells & batteries	T3: Vibration	(Test T.3) UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.3)
129.		T4: Shock	(Test T.4) UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.4)
130.		T5: External short circuit	(Test T.5) UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.5),
131.		T6: Impact/Crush	(Test T.6) UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.6)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells and Batteries		
132.		T7: Over Charge	(Test T.7) UN 38.3 Seventh Revised Edition :2019 (Cl.38.3.4.7)
133.		T8: Forced discharge	(Test T.8) UN 38.3 Seventh Revised Edition:2019 (Cl.38.3.4.8)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
1.	Luminaires for road street lighting	Classification of luminaires	IS 10322 (Part 5/Sec 3):2012 cl.5 (IS 10322 (Part 1):2014) section 2
2.		Marking	IS 10322 (Part 5/Sec 3):2012 cl.6 (IS 10322 (Part 1):2014) section 3
3.		Construction	IS 10322 (Part 5/Sec 3):2012 cl.7 (IS 10322 (Part 1):2014) section 4
4.		Creepage distances and clearances	IS 10322 (Part 5/Sec 3):2012 cl.8 (IS 10322 (Part 1):2014) section 11
5.		Provision for earthing	IS 10322 (Part 5/Sec 3):2012 cl.9 (IS 10322 (Part 1):2014) section 7
6.		Terminals	IS 10322 (Part 5/Sec 3):2012 cl.10 (IS 10322 (Part 1):2014) section 14 and section 15
7.		External & internal wiring	IS 10322 (Part 5/Sec 3):2012 cl.11 (IS 10322 (Part 1):2014) section 5
8.		Protection against electric shock	IS 10322 (Part 5/Sec 3):2012 cl.12 (IS 10322 (Part 1):2014) section 8
9.		Endurance test and thermal test	IS 10322 (Part 5/Sec 3):2012 cl.13 (IS 10322 (Part 1):2014) section 12
10.		Resistance to dust and moisture	IS 10322(part 5/sec3):2012 cl.14 (is 10322 (part 1):2014) section 9



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
11.	Luminaires for road street lighting	Insulation resistance and electric strength	IS 10322 (Part 5/Sec 3):2012 cl.15 (IS 10322 (Part 1):2014) section 10
12.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 3):2012 Cl.16 (IS 10322 (Part 1):2014)Section 13
13.	Flood lights	Classification of luminaires	IS 10322 (Part 5/Sec 5):2013 Cl.5 (IS 10322 (Part 1):2014) section 2
14.		Marking	IS 10322 (Part 5/Sec 5):2013 Cl.6 (IS 10322 (Part 1):2014) section 3
15.		Construction	IS 10322 (Part 5/Sec 5):2013 Cl.7 (IS 10322 (Part 1):2014) section 4
16.		Creepage Distances and Clearances	IS 10322 (Part 5/Sec 5):2013 Cl.8 (IS 10322 (Part 1):2014) section 11
17.		Provision for Earthing	IS 10322 (Part 5/Sec 5):2013 Cl.9 (IS 10322 (Part 1):2014) section 7
18.		Terminals	IS 10322 (Part 5/Sec 5):2013 Cl.10 (IS 10322 (Part 1):2014) section 14 and sec 15
19.		External & Internal Wiring	IS 10322 (Part 5/Sec 5):2013 Cl.11 (IS 10322 (Part 1):2014) section 5
20.		Protection Against Electric Shock	IS 10322 (Part 5/Sec 5):2013 Cl.12 (IS 10322 (Part 1):2014) section 8
21.		Flood lights	Endurance Test and thermal test

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
22.		Resistance to dust and moisture	IS 10322 (Part 5/Sec 5):2013 Cl.14 (IS 10322 (Part 1):2014) Section 9
23.		Insulation Resistance and Electric strength	IS 10322 (Part 5/Sec 5):2013 Cl.15 (IS 10322 (Part 1):2014) Section 10
24.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 5):2013 Cl.16 (IS 10322 (Part 1):2014) section 13
25.	Fixed general purpose luminaire	Classification of luminaires	IS 10322 (Part 5/Sec1):2012 cl.5 (IS 10322 (Part 1):2014) section 2
26.		Marking	IS 10322 (Part 5/Sec1):2012 cl.6 (IS 10322 (Part 1):2014) section 3
27.		Construction	IS 10322 (Part 5/Sec 1):2012 cl.7 (IS 10322 (Part 1):2014) section 4
28.		Creepage distances and clearances	IS 10322 (Part 5/Sec 1):2012 cl.8 (IS 10322 (part 1):2014) section 11
29.		Provision for earthing	IS 10322 (Part 5/Sec 1):2012 cl.9 (IS 10322 (Part 1):2014) section 7
30.		Terminals	IS 10322 (Part 5/Sec 1):2012 Cl.10 (IS 10322 (part 1):2014) Section 14
31.		Fixed general purpose luminaire	External & internal wiring
32.	Protection against electric shock		IS 10322 (Part 5/Sec1):2012 cl.12

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
33.		Endurance test and thermal test	IS 10322 (Part 5/Sec1):2012 cl.13 (IS 10322 (Part 1):2014) section 12
34.		Resistance to dust and moisture	IS 10322 (Part 5/Sec 1):2012 cl.14 (IS 10322 (Part 1):2014) section 9
35.		Insulation resistance and electric strength	IS 10322 (Part 5/Sec 1):2012 cl.15 (IS 10322 (Part 1):2014) section 10
36.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 1):2012 cl.16 (IS 10322 (Part 1):2014) section 13
37.		Classification of luminaires	IS 10322 (Part 5/Sec 2):2012 cl.5 (IS 10322 (Part 1):2014) section 2
38.	Recessed luminaires	Marking	IS 10322 (Part 5/sec 2):2012 cl.6 (IS 10322 (Part 1):2014) section 3
39.		Construction	IS 10322 (Part 5/Sec 2):2012 Cl.7 (IS 10322 (Part 1):2014) section 4
40.		Creepage distances and clearances	IS 10322 (Part 5/Sec 2):2012 cl.8 (IS 10322 (Part 1):2014) section 11
41.		Provision for earthing	IS 10322 (Part 5/Sec 2):2012 cl.9 (IS 10322 (Part 1):2014) section 7
42.		Terminals	IS 10322 (Part 5/Sec 2):2012 cl.10 (IS 10322 (Part 1):2014) section 14 and sec 15
43.	External & internal wiring	IS 10322 (Part 5/Sec 2):2012 cl.11 (IS 10322 (Part 1):2014) section 5	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
44.		Protection against electric shock	IS 10322 (Part 5/Sec 2):2012 cl.12
45.		Endurance test and thermal test	IS 10322 (Part 5/Sec 2):2012 cl.13 (IS 10322 (Part 1):2014) Section 12
46.		Resistance to dust and moisture	IS 10322 (Part 5/Sec 2):2012 cl.14 (IS 10322 (Part 1):2014) Section 9
47.		Insulation resistance and electric strength	IS 10322 (Part 5/Sec 2):2012 cl.15 (IS 10322 (Part 1):2014) Section 10
48.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 2):2012 cl.16 (IS 10322 (Part 1):2014) Section 13
49.		Lighting chain	Classification of luminaires
50.	Marking		IS 10322 (Part 5/Sec 7):2017 cl.20.6 IEC 60698-1:2020 Section 3
51.	Construction		IS 10322 (Part 5/Sec 2):2012 cl.7 (IS 10322 (Part 1):2014) Section 4
52.	Creepage distances and clearances		IS 10322 (Part 5/Sec 7):2017 cl.20.8 IEC 60598-1:2020 Section 11
53.	Lighting chain		Terminals
54.		External & internal wiring	IS 10322 (Part 5/Sec 7):2017 cl.20.11 IEC 60598-1:2020 Section 5



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
55.		Protection against electric shock	IS 10322 (Part 5/Sec 7):2017 cl.20.12 IEC 60598-1: 2020 Section 8
56.		Endurance test and thermal test	IS 10322 (Part 5/Sec 7):2017 cl.20.13 including cl.20.13.1 to 20.13.4 IEC 60598-1 :2020 Section 12
57.		Resistance to dust, solid object and moisture	IS 10322 (Part 5/Sec 7):2017 cl.20.14 IEC 60598-1: 2020 section 9
58.		Insulation resistance and electric strength	IS 10322 (Part 5/Sec 7):2017 Cl.20.15 IEC 60598-1 2020 Section 10
59.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 7):2017 Cl.20.16 IEC 60598-1 :2020 section 13
60.	Rope lights	Classification of luminaires	IS 10322 (Part 5/Sec 9):2017 cl.21.5 IS 60598-1:2020 section 2
61.		Marking	IS 10322 (Part 5/Sec 9):2017 cl.21.6 IS 60598-1:2020 section 3
62.		Construction	IS 10322 (Part 5/Sec 9):2017 Cl.21.7 IS 60598-1 section 4
63.	Rope lights	Creepage distances and clearances	IS 10322 (Part 5/Sec 9):2017 Cl.21.8 IEC 60598-1:2020 section11
64.		Terminals	IS 10322 (Part 5/Sec 9):2017 Cl.21.10 IEC 60598-1:2020 section 14 and section 15



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
65.		External & internal wiring	IS 10322 (Part 5/Sec 9):2017 Cl.21.11 IEC 60698-1:2020 section 5
66.		Protection against electric shock	IS 10322 (Part 5/Sec 9):2017 Cl.21.12 IEC 60698-1:2020 section 8
67.		Endurance test and thermal test	IS 10322 (Part 5/Sec 9):2017 Cl.21.13 including cl 21.13.1- 21.13.3 IEC 60698-1:2020 Section 12
68.		Resistance to dust, solid object and moisture	IS 10322 (Part 5/Sec 9):2017 Cl.21.14 IEC 60698-1:2020 Section 9
69.		Insulation resistance and electric strength	IS 10322 (Part 5/Sec 9):2017 Cl.21.15 IEC 60698-1:2020 section 10
70.		Resistance to heat, fire and tracking	IS 10322 (Part 5/Sec 9):2017Cl.21.16 IEC 60698-1:2020 section 13
71.	D.C. or A.C. supplied electronic control gear for led modules	Marking	IS 15885 (Part 2/Sec 13): 2012 A1:2015, Cl.7.0 (IS 15885 (Part 1): 2011)
72.	D.C. or A.C. supplied electronic control gear for led modules	Protection against accidental contact with live parts	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.8.0, CL.10.0 (IS 15885 (Part 1): 2011)
73.		Terminals	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.9.0, CL.8.0 (IS 15885 (Part 1): 2011)

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Lamps, Luminaires and Accessories			
74.		Provision for protective earthing	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.10.0, CL.9.0 (IS 15885 (Part 1): 2011)	
75.		Moisture resistance and insulation	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.11.0, CL.11.0 (IS 15885 (Part 1): 2011)	
76.		Electric strength	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.12.0, CL.12.0 (IS 15885 (Part 1): 2011)	
77.		Fault condition	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.14 (IS 15885 (Part 1): 2011)	
78.		Transformer heating	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.15.0	
79.		D.C. or A.C. supplied electronic control gear for led modules	Construction	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.16.0, CL.15.0 (IS 15885 (Part 1): 2011)
80.			Creepage distances and clearances	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.17.0, CL.16.0 (IS 15885 (Part 1): 2011)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
81.		Screw current carrying parts and connections	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.18.0, CL.17.0 (IS 15885 (Part 1): 2011)
82.		Resistance to heat fire and tracking	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.19.0, CL.18.0 (IS 15885 (Part 1): 2011)
83.		Resistance to corrosion	IS 15885 (Part 2/Sec 13): 2012 A1:2015, CL.20.0, CL.19.0 (IS 15885 (Part 1): 2011)
84.		Marking	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.5.0
85.	Self-ballasted led lamps for general lighting services	Interchangeability	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.6.0
86.		Protection against accidental contact with live parts	IS 16102-1:2012 A1+A2:2015 AND A3:2020
87.		Insulation resistance and after humidity treatment	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.8.0
88.	Self-ballasted led lamps for general lighting services	Mechanical strength	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.9.0
89.		Cap temperature rise	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.10.0
90.		Resistant to heat	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.11.0

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Lamps, Luminaires and Accessories		
91.		Resistance to flame and ignition	IS 16102-1:2012 A1+A2:2015 AND A3:2020CL.12.0
92.		Fault condition	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.13.0
93.		Clearance and creepage distances	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.14.0
94.		Conditions of compliance	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.16.0
95.		Tests	IS 16102-1:2012 A1+A2:2015 AND A3:2020 CL.16.0



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
1.	Electrical & Electronics items	Solar Radiation	IEC 60068-2-5:2018
2.		Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Non-metallic Materials	ASTM-G154:2016
3.		Cyclic Damp Heat Test	EN 50155: 2021
4.		Dry Heat Thermal Cycle A	EN 50155: 2021
5.		Dry Heat Thermal Cycle B	EN 50155: 2021
6.		Dry Heat Thermal Cycle C	EN 50155: 2021
7.		Low Temperature Test	EN 50155: 2021
8.		Low Temperature Storage Test	EN 50155: 2021
9.		Shock And Vibration Test	EN 50155: 2021
10.		Enclosure Protection Test (IP Code)	EN 50155: 2021
11.		Rapid Temperature Variation Test	EN 50155: 2021
12.		Salt Mist Test	EN 50155: 2021
13.		Damp Heat, Steady State	IEC 60068 (Part 2/Sec 67): 1995



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
14.	Electronic & Electrical Equipment's, Sub -Assemblies	Cold Test	IEC 60068 (Part 2/Sec 1): 2007
15.	Electronic and electrical products	Salt mist test	IEC 60068 (Part 2/Sec 11): 2021
16.	Electronic & Electrical Equipment's, Sub -Assemblies	Dry heat test	IEC 60068 (Part 2/Sec 2): 2007
17.		shock/Bump test	IEC 60068 (Part 2/Sec 27): 2008
18.		Vibration Test	IEC 60068 (Part 2/Sec 6): 2007
19.		Vibration Test	IEC 60068 (Part 2/Sec 64): 2019
20.		Damp Heat Test	IEC 60068 (Part 2/Sec 78): 2012
21.		Electrical & Electronics items	Cold Test
22.	Low air pressure		IEC 60068-2-13:2021
23.	Change in Temperature test		IEC 60068-2-14: 2023
24.	Cyclic Damp Heat Test		IEC 60068-2-30: 2005
25.	Electronic & Electrical Equipment's, Sub -Assemblies	Drop and topple	IEC 60068-2-31 (cl.no. 5.1): 2008
26.		Free fall test	IEC 60068-2-31 (Cl.no. 5.2): 2008
27.	Electrical & Electronics items	Temperature/Humidity Cyclic Test	IEC 60068-2-38: 2021
28.		Dust and sand	IEC 60068-2-68: 1994

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Environmental Test Facility			
29.	Electrical & Electronics items	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	IEC 60068-2-75: 2014	
30.		Damp Heat, Steady State	IEC 60068-2-78: 2012	
31.		Salt Mist test	IEC 60571 (Cl. No. 10.2.11):2012	
32.		Insulation Test	IEC 60571 (Cl. No. 12.2.10):2012	
33.		Low Temperature Storage Test	IEC 60571 (Clause 12.2.15):2012	
34.		Damp Heat, Steady State	IEC 60571 (Clause 12.2.6): 2012	
35.		Cyclic Damp Heat Test	IEC 60571 (Clause 12.2.6): 2012	
36.		Vibration, Shock and bump Test	IEC 60571(Cl.No.12.2.12): 2012	
37.		Dry heat test	IEC 60571(Cl.No.12.2.5): 2012	
38.		Cold Start Test	IEC 60571(Cl.No.12.2.4): 2012	
39.		Electronic & Electrical Equipment's, Sub -Assemblies	Needle flame test	IEC 60695 (Part 11/Sec 5)
40.			Glow Wire Test	IEC 60695 (Part 2/Sec 10)
41.		Electrical & Electronics items	Vibration And Shock Test	IEC 61373: 2010
42.	Shock and vibration tests		IEC 61373: 2010	



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
43.	Electrical & Electronics items	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK Code)	IEC 62262: 2021
44.	Electrical and Electronics Products	Severities for Environmental Test for Automotive Electrical Equipment (except mould growth, solar radiation tests)	IS 10250: 1982
45.	Electronic & Electrical Equipment's, Sub -Assemblies	Needle flame test	IS 11000 (Part 2/Sec 2): 2008
46.		Glow wire test	IS 11000 (Part 2/Sec 1): 2018
47.		Dust Test	IS 12063: 1987
48.	Solid electrical insulating material	Insulation resistance test	IS 2259: 2020
49.	Electrical and Electronics products	Method for determining of the proof and the comparative tracking indices of solid insulating materials	IS 2824: 2007
50.	Electrical & Electronics items	Salt Mist Test	IS 9000 (Part 11):2019
51.	Electronic & Electrical Equipment's, Sub -Assemblies	Dust test	IS 9000 (Part 12): 1981
52.	Electronic & Electrical Equipment's, Sub -Assemblies	Dry heat test	IS 9000 (Part 3): 1977

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
53.	Electronic & Electrical Equipment's, Sub -Assemblies	Damp Heat Test	IS 9000 (Part 4): 2020
54.	Electrical & Electronics items	Damp heat cyclic test	IS 9000 (Part 5/Sec 1) :2019
55.	Electronic & Electrical Equipment's, Sub -Assemblies	Shock test	IS 9000 (Part 7/Sec 1): 2018
56.	Electrical & Electronics items	Test Number 3 Altitude	IS 9000 (Part 13): 1981
57.	Electronic and electrical products	Salt Spray Test	IS 9844: 1981
58.	solid electrical and electronic material	High Voltage Test	IS/IEC 60060-2: 2010
59.	Electrical & Electronic Equipment's, Sub -Assemblies	Degree Of Protections Against Water	IS/IEC 60529: 2001
60.	Electronic & Electrical Equipment's, Sub -Assemblies	Dust Test	IS/IEC 60529: 2001
61.	Electrical and Electronics products	Abnormal Heat - Ball Pressure Test Method	IS/IEC 60695: Part 10: Sec 2: 2014
62.	Electrical, Electronic Equipment & Sub-assemblies	50 W Horizontal and Vertical Flame	IS/IEC 60695 (Part 11/Sec 10): 2013
63.	Electrical & Electronics products	Impulse Test	IS/IEC 61730-2: 2016
64.	Electrical & Electronics items	Methods Of Exposure to Laboratory Light Sources Part 2: Xenon-Arc Lamps	ISO 4892-2:2013

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Environmental Test Facility			
65.		Test Number 10 Damp Heat	JSS 55555:2020 Revision No. 4: 2020	
66.		Test Number 27 Tropical Exposure	JSS 55555:2020 Revision No. 4: 2020	
67.		Test Number 11 Drip Proof	JSS 55555:2020 Revision No. 4: 2020	
68.		Test Number 13 Drop	JSS 55555:2020 Revision No. 4: 2020	
69.		Test Number 24 Shock or Impact	JSS 55555:2020 Revision No. 4: 2020	
70.		Test Number 9 Corrosion (Salt/Salt Fog)	JSS 55555:2020 Revision No. 4: 2020	
71.		Test Number 14 Dust	JSS 55555:2020 Revision No. 4: 2020	
72.		Test Number 16 Fine Mist	JSS 55555:2020 Revision No. 4: 2020	
73.		Test Number 17 High temperature	JSS 55555:2020 Revision No. 4: 2020	
74.		Test Number 19 Immersion	JSS 55555:2020 Revision No. 4: 2020	
75.		Electrical & Electronics items	Test Number 20 Low Temperature	JSS 55555:2020 Revision No. 4: 2020
76.			Test Number 22 Rapid Temperature Cycling (Thermal Shock)	JSS 55555:2020 Revision No. 4: 2020

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Environmental Test Facility			
77.		Test Number 23 Sealing	JSS 55555:2020 Revision No. 4: 2020	
78.		Test Number 26 Toppling	JSS 55555:2020 Revision No. 4: 2020	
79.		Test Number 28 Vibration	JSS 55555:2020 Revision No. 4: 2020	
80.		Test Number 5 Bump	JSS 55555:2020 Revision No. 4: 2020	
81.		Test Number 6 Contamination	JSS 55555:2020 Revision No. 4: 2020	
82.		Test Number 7 Corrosion (Acid)	JSS 55555:2020 Revision No. 4: 2020	
83.		Test Number 8 Corrosion (Alkaline)	JSS 55555:2020 Revision No. 4: 2020	
84.		Test Number 3 Altitude	JSS 55555:2020 Revision No. 4: 2020	
85.		Test Number 18 Icing	JSS 55555:2020 Revision No. 4: 2020	
86.		Electrical & Electronics items	Test Number 25 Solar Radiation	JSS 55555:2020 Revision No. 4: 2020
87.			Test Number 13 Mould Growth (Fungus)	JSS 55555:2020 Revision No. 4: 2020
88.			Test Number 12 Driving Rain	JSS 55555:2020 Revision No. 4: 2020
89.			Test Number 1 Altitude	JSS 5855-11:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Environmental Test Facility			
90.		Test Number 3 Bump	JSS 5855-11:2019
91.		Test Number 4 Contamination	JSS 5855-11:2019
92.		Test Number 5 Corrosion (Salt/Salt Fog)	JSS 5855-11:2019
93.		Test Number 6 Damp Heat	JSS 5855-11:2019
94.		Test Number 8 Drop	JSS 5855-11:2019
95.		Test Number 9 Dust	JSS 5855-11:2019
96.		Test Number 10 High Temperature	JSS 5855-11:2019
97.		Test Number 11 Immersion	JSS 5855-11:2019
98.		Test Number 12 Low Temperature	JSS 5855-11:2019
99.		Test Number 13 Mould Growth (Fungus)	JSS 5855-11:2019
100.		Test Number 14 Rapid Temperature Cycling (Thermal Shock)	JSS 5855-11:2019
101.		Test Number 15 Sealing	JSS 5855-11:2019
102.		Test Number 16 Shock or Impact	JSS 5855-11:2019
103.		Test Number 17 Solar Radiation	JSS 5855-11:2019
104.	Electrical & Electronics items	Test Number 18 Toppling	JSS 5855-11:2019
105.		Test Number 19 Tropical Exposure	JSS 5855-11:2019
106.		Test Number 20 Vibration	JSS 5855-11:2019
107.		Test Number 22 Fine Mist	JSS 5855-11:2019
108.		Test Number 23 Icing	JSS 5855-11:2019
109.		Test Number 24 Corrosion (Acid)	JSS 5855-11:2019
110.		Test Number 25 Corrosion (Alkaline)	JSS 5855-11:2019
111.		Test Number 27 Drip Proof	JSS 5855-11:2019
112.		Test Number 7 Driving Rain	JSS 5855-11:2019

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
Environmental Test Facility				
113.	Electrical & Electronics items	Method 507 Humidity	MIL-STD-810H:2019	
114.		Method 514 Vibration	MIL-STD-810H:2019	
115.		Method 516 Shock	MIL-STD-810H:2019	
116.		Method 501 High Temperature	MIL-STD-810H:2019	
117.		Method 503 Temperature Shock	MIL-STD-810H:2019	
118.		Method 506 Rain	MIL-STD-810H:2019	
119.		Method 510 Sand and Dust	MIL-STD-810H:2019	
120.		Method 510 Sand and Dust	MIL-STD-810H:2019	
121.		Method 502 Low Temperature	MIL-STD-810H:2019	
122.		Method 509 Salt Fog	MIL-STD-810H:2019	
123.		Method 512 Immersion	MIL-STD-810H:2019	
124.		Method 500.6 Low Pressure (Altitude)	MIL-STD-810H:2019	
125.		Solar Radiation (Sunshine)	MIL-STD-810H:2019	
126.		Icing/Freezing Rain	MIL-STD-810H:2019	
127.		Fungus	MIL-STD-810H:2019	
128.		Electrical & Electronics items	Cyclic Damp Heat Test	QM 333:2010
129.			Damp heat (Steady state)	QM 333:2010
130.	Test No. 11: Topple test		QM 333:2010	
131.	Test No. 12: Fall test		QM 333:2010	
132.	Test No. 13: Bump / Road ability		QM 333:2010	
133.	Test No. 15: Dust Test		QM 333:2010	
134.	Test No. 7: Sealing (Gas tightness)/ High Altitude Test		QM 333:2010	
135.	Test No. 8: Water immersion Test		QM 333:2010	
136.	Test No. 9: Corrosion – Salt		QM 333:2010	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Environmental Test Facility		
137.		Test No. 1: Low temperature (Cold Cycle)	QM 333:2010
138.		Test No. 10: Drop Test	QM 333:2010
139.		Test No. 2: High temperature (Dry Heat Cycle)	QM 333:2010
140.		Test No. 4: Rapid temperature cycle	QM 333:2010
141.		Test No. 6: Vibration Test	QM 333:2010
142.		Test No. 14: Rain Test	QM 333:2010



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Energy Efficiency of Domestic Electronic Appliances		
1.	Ultra-High-Definition Televisions	Determination of power consumption, Off mode	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.7
2.		Determination of power consumption, On mode (static video signals)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.4
3.		Determination of power consumption, Partial On mode (Standby-active)	(BEE Schedule 26) Clause 6.6 IEC 62087-3:2015
4.		Determination of peak luminance ratio and power factor (Peak luminance)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.5
5.		Determination of power consumption, On mode	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.4
6.		Determination of power consumption, On mode (Internet-content video signal)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.4
7.		Determination of power consumption, Partial On mode	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.6
8.		Determination of power consumption, Partial On mode (Standby-passive)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.6



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Energy Efficiency of Domestic Electronic Appliances		
9.	Ultra-High-Definition Televisions	Determination of peak luminance ratio and power factor (Power Factor)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.5
10.		Determination of peak luminance ratio and power factor (Power Factor)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.5
11.		Determination of power consumption, On mode (Dynamic broadcast content video signal)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.4
12.		Preparation	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.2
13.		Tv Setting	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.3.10
14.		Measurements (Measurement of standby power) (Ultra-High Definition Televisions)	IEC 62301:2011 Clause 5
15.		Measurements (Measurement of standby power)	IEC 62301:2011 Clause 5
16.	Audio, video, and related equipment (Television)	Determination of peak luminance ratio and power factor (Peak luminance)	(BEE Schedule 26) IEC 62087-3:2015 Clause 6.5

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Energy Efficiency of Domestic Electronic Appliances		
17.	sets) (LED TV/QLED TV/OLED TV)	Determination of power consumption, On mode	(BEE Schedule 11) IEC 62087-3:2015 Clause 6.4
18.		Measurements (Measurement of standby power) (Television sets)	IEC 62301:2011 Clause 5



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Audio Equipment		
1.	Product: Audio, Video And Similar Electronic Apparatus-	Marking and Instructions	IS 616:2017 / IEC 60065:2014 Cl.5
2.	Safety Requirements: (Electronics Games, Optical Disc Player with built in	Heating under normal operating conditions	IS 616:2017 / IEC 60065:2014 Cl.7
3.	Amplifier of input power 200W and above, Amplifier with input power 2000 W and above, Electronic Music Systems with output power	Constructional requirements with regard to protection against electric shock	IS 616:2017 / IEC 60065:2014 Cl.8
4.	200W and above, Power Adopter for Audio, Video and similar electronic Apparatus,	Electric shock hazard under normal operating conditions	IS 616:2017 / IEC 60065:2014 Cl.9
5.	LED/Plasma/LCD TVs of screen size above 32 inch and above,	Insulation requirements	IS 616:2017 / IEC 60065:2014 Cl.10
6.	LED/Plasma/LCD TVs of screen size below 32 inch, Wireless Headphone and Earphone,	Fault Conditions	IS 616:2017 / IEC 60065:2014 Cl.11
7.	Electronic Musical system with input power less than 200Watts, Television other than Plasma/LCD/LED TVs,	Mechanical strength	IS 616:2017 / IEC 60065:2014 Cl.12
8.	Wireless Microphone, Video Camera, Webcam(Finished	Clearances and Creepage Distances	IS 616:2017 / IEC 60065:2014 Cl.13
9.		Terminals	IS 616:2017 / IEC 60065:2014 Cl.15
10.		External flexible cords	IS 616:2017 / IEC 60065:2014 Cl.16

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Audio Equipment		
11.	product), Smart Speaker (With and without display), Bluetooth Speaker	Electrical connections and mechanical fixings	IS 616:2017 / IEC 60065:2014 Cl.17
12.		Stability and mechanical hazards	IS 616:2017 / IEC 60065:2014 Cl.19
13.		Resistance to fire	IS 616:2017 / IEC 60065:2014 Cl.20



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
1.	Product: Information Technology Equipment—	Power Interface	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 1.6
2.	Safety : General requirements: Laptop/Notebook/Tablet PC,	Marking and Instructions	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl.1.7
3.	Telephone Answering Machines, Set Top Box, Mobile phones, Cash registers, Point of sale terminals, Smart card readers, Mail processing machines/postage machines/Frinking machines, Passport reader, Power banks for use in portable applications, CCTV Cameras/CCTV Recorders, Smart Watches, USB Driven Barcode readers, barcode scanners, Iris scanners, Optical fingerprint scanners, Wireless keyboards, Visual display units, Video Monitors of screen size above 32 inch and above (up to 85 inch), Visual	Protection from electric shock and energy hazards	IS 13252 (Part 1): 2010/IEC 60950-1: 2005Cl. 2.1
4.		SELV Circuits	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.2
5.		TNV circuits	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.3
6.		Limited current circuit	IS 13252 (Part 1): 2010/IEC 60950-1: 2005Cl. 2.4
7.		Limited power sources	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.5
8.		Provisions for earthing and bonding	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.6
9.		Overcurrent and earth fault protection in primary circuits	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.7
10.		Safety interlock	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.8
11.		Electrical Insulation	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.9



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
12.	display units, Video Monitors of screen size below 32 inch, Scanners, Printers/plotters,	Clearances, creepage distances and distances through insulation	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 2.10
13.	Automatic data processing machine, Copying	Wiring, connections and supply (General)	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 3.1
14.	machines/duplicators, Power adaptors for IT equipment, USB Keyboard, Automatic	Connection to a Mains supply	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 3.2
15.	Teller Cash Dispensing Machine, USB Type external	Wiring terminals for connection of external conductors	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 3.3
16.	Hard disc drive, USB Type external solid state storage	Disconnection from the Mains supply	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 3.4
17.	devices(Above 256 GB Capacity), Standalone Switch	Interconnection of equipment	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 3.5
18.	Mode Power Supplies (SMPS) with output voltage 48V	Stability	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 4.1
19.	(Max), Digital Camera	Mechanical strength	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 4.2
20.		Design & construction	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 4.3
21.		Protection against hazardous moving parts	IS 13252 (Part 1): 2010/IEC 60950-1: 2005Cl. 4.4
22.		Thermal requirements	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 4.5

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
23.		Openings in enclosures	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 4.6
24.		Resistance to fire	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 4.7
25.		Touch current and protective conductor current	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 5.1
26.		Electric strength	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 5.2
27.		Abnormal operating and fault condition	IS 13252 (Part 1): 2010/IEC 60950-1: 2005Cl. 5.3
28.		Connection of telecommunication networks	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 6.0
29.		Connection to cable distribution system	IS 13252 (Part 1): 2010/IEC 60950-1: 2005 Cl. 7.0
30.		Requirements	IS 16333-3: 2022 Cl.4
31.	Mobile Phone	Inputting and display of all the characters in English, Hindi and Additional (Third) Indian Official Language	IS 16333-3: 2022 Cl.5.1
32.		Message Readability (22 Indian Official Languages)	IS 16333-3: 2022 Cl.5.2
33.		Marking	IS 16333-3: 2022 Cl.6



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
34.	Audio/Video, information and communication technology	General	IS/IEC 62368 Part 1: 2018 Clause No. 4.1
35.	Audio/Video, information and communication technology equipment	Energy source classifications	IS/IEC 62368 Part 1: 2018 Clause No. 4.2
36.		Protection against energy sources	IS/IEC 62368 Part 1: 2018 Clause No. 4.3
37.		Safeguards	IS/IEC 62368 Part 1: 2018 Clause No. 4.4
38.		Fixing of conductors	IS/IEC 62368 Part 1: 2018 Clause No. 4.6
39.		Equipment for direct insertion into mains socket-outlets	IS/IEC 62368 Part 1: 2018 Clause No. 4.7
40.		Equipment containing coin/button cell batteries	IS/IEC 62368 Part 1: 2018 Clause No. 4.8
41.		Likelihood of fire or shock due to entry of conductive objects	IS/IEC 62368 Part 1: 2018 Clause No. 4.9
42.		Components Requirements	IS/IEC 62368 Part 1: 2018 Clause No. 4.10
43.		General	IS/IEC 62368 Part 1: 2018 Clause No. 5.1
44.		Classification and limits of electrical energy sources	IS/IEC 62368 Part 1: 2018 Clause No. 5.2
45.	Protection against electrical energy sources	IS/IEC 62368 Part 1: 2018 Clause No. 5.3	

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
46.	Audio/Video, information and communication technology equipment	Insulation materials and requirements	IS/IEC 62368 Part 1: 2018 Clause No. 5.4
47.		Components as safeguards	IS/IEC 62368 Part 1: 2018 Clause No. 5.5
48.		Protective conductor	IS/IEC 62368 Part 1: 2018 Clause No. 5.6
49.		Prospective touch voltage, touch current and protective conductor current	IS/IEC 62368 Part 1: 2018 Clause No. 5.7
50.		Back feed safeguard in battery backed up supplies	IS/IEC 62368 Part 1: 2018 Clause No. 5.8
51.		General	IS/IEC 62368 Part 1: 2018 Clause No. 6.1
52.		Classification of power sources (PS) and potential ignition sources (PIS)	IS/IEC 62368 Part 1: 2018 Clause No. 6.2
53.		Safeguards against fire under normal operating conditions and abnormal operating conditions	IS/IEC 62368 Part 1: 2018 Clause No. 6.3
54.		Safeguards against fire under single fault conditions	IS/IEC 62368 Part 1: 2018 Clause No. 6.4
55.			Internal and external wiring

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Electronics Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	IT Equipment			
56.	Audio/Video, information and communication technology equipment	Safeguards against fire due to the connection of additional equipment	IS/IEC 62368 Part 1: 2018 Clause No. 6.6	
57.		Injury caused by hazardous substances	IS/IEC 62368 Part 1: 2018 Clause No.7	
58.		General	IS/IEC 62368 Part 1: 2018 Clause No. 8.1	
59.		Mechanical energy source classifications	IS/IEC 62368 Part 1: 2018 Clause No. 8.2	
60.		Safeguards against mechanical energy sources	IS/IEC 62368 Part 1: 2018 Clause No. 8.3	
61.		Safeguards against parts with sharp edges and corners	IS/IEC 62368 Part 1: 2018 Clause No. 8.4	
62.		Safeguards against moving parts	IS/IEC 62368 Part 1: 2018 Clause No. 8.5	
63.		Requirements	IS/IEC 62368 Part 1: 2018 Clause No. 8.6.1	
64.		Static Stability	IS/IEC 62368 Part 1: 2018 Clause No. 8.6.2	
65.		Relocation Stability	IS/IEC 62368 Part 1: 2018 Clause No. 8.6.3	
66.		Audio/Video, information and communication technology equipment	Glass slide test	IS/IEC 62368 Part 1: 2018 Clause No. 8.6.4
67.		Audio/Video, information and communication technology equipment	Horizontal force test and compliance criteria	IS/IEC 62368 Part 1: 2018 Clause No. 8.6.5

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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
68.		(Equipment mounted to a wall, ceiling or other structure)	IS/IEC 62368 Part 1: 2018 Clause No. 8.7
69.		Handle strength	IS/IEC 62368 Part 1: 2018 Clause No. 8.8
70.		Wheels or casters attachment requirements	IS/IEC 62368 Part 1: 2018 Clause No. 8.9
71.		Carts, stands, and similar carriers	IS/IEC 62368 Part 1: 2018 Clause No. 8.10
72.		Carts, stands, and similar carriers	IS/IEC 62368 Part 1: 2018 Clause No. 8.11
73.		Telescoping or rod antennas	IS/IEC 62368 Part 1: 2018 Clause No. 8.12
74.		General	IS/IEC 62368 Part 1: 2018 Clause No. 9.1
75.		Thermal energy source classifications	IS/IEC 62368 Part 1: 2018 Clause No. 9.2
76.		Touch temperature limits	IS/IEC 62368 Part 1: 2018 Clause No. 9.3
77.		Safeguards against thermal energy sources	IS/IEC 62368 Part 1: 2018 Clause No. 9.4
78.	Audio/Video, information and communication technology equipment	Requirements for safeguards	IS/IEC 62368 Part 1: 2018 Clause No. 9.5



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Electronics Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
79.		Requirements for wireless power transmitters	IS/IEC 62368 Part 1: 2018 Clause No. 9.6



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
1.	Non-Ferrous Metals - Aluminum Sheet	Tensile Strength (st)	ASTM B557: 2015 (Reapproved 2023)
2.		Tensile Strength (st)	ASTM E8: 2024
3.		Tensile Strength (st)	IS 1608-1: 2022
4.		Tensile Strength (st)	ISO 6892-1: 2019
5.		Yield Strength (sy)	ASTM B557: 2015(Reapproved 2023)
6.		Yield Strength (sy)	ASTM E8: 2024
7.		Yield Strength (sy)	IS 1608-1: 2022
8.		Yield Strength (sy)	ISO 6892-1: 2019
9.		Elongation (el)	ASTM B557: 2015 (Reapproved 2023)
10.		Elongation (el)	ASTM E8: 2024
11.		Elongation (el)	IS 1608-1: 2022
12.		Elongation (el)	ISO 6892-1: 2019
13.	Ferrous Metals -Stainless steel sheet	Tensile Strength (st)	ASTM A370: 2023
14.		Tensile Strength (st)	ASTM E8: 2024
15.	Ferrous Metals -Stainless steel sheet	Tensile Strength (st)	IS 1608-1: 2022
16.		Tensile Strength (st)	ISO 6892-1: 2019
17.		Yield Strength (sy)	ASTM A370: 2023
18.		Yield Strength (sy)	ASTM E8: 2024
19.		Yield Strength (sy)	IS 1608-1: 2022
20.		Yield Strength (sy)	ISO 6892-1: 2019
21.		Elongation (el)	ASTM A370: 2023
22.		Elongation (el)	ASTM E8: 2024
23.		Elongation (el)	IS 1608-1: 2022
24.		Elongation (el)	ISO 6892-1: 2019



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Plastics and Plastic Products			
1.	Plastic Materials and Products	Tensile Strength (s)	ASTM D638: 2022
2.		Tensile Strength (s)	ISO 527-1: 2019
3.		Tensile Strength (s)	IS 13360 (Part 5/Sec 1): 2021
4.		Yield Strength (s)	ASTM D638: 2022
5.		Yield Strength (s)	ISO 527-1: 2019
6.		Yield Strength (s)	IS 13360 (Part 5/Sec 1): 2021
7.		Elongation (E)	ASTM D638: 2022
8.		Elongation (E)	ISO 527-1: 2019
9.		Elongation (E)	IS 13360 (Part 5/Sec 1): 2021
10.		Flexural Strain (ef)	ASTM D790: 2017
11.		Flexural Stress (sf)	ASTM D790: 2017
12.		Chord Modulus (Ef) (Flexural	ASTM D790: 2017
13.	Composites	Flexural Strain (ef)	ASTM D790: 2017
14.		Flexural Stress (sf)	ASTM D790: 2017
15.		Chord Modulus (Ef) (Flexural	ASTM D790: 2017
16.		Compressive Strength (sc)	ASTM D3410/D3410M:2016
17.	Composites	Tensile Strength (s)	ASTM D3039/ D3039M:2017
18.		Flexural Strain (ef)	ASTM D7264: 2021
19.		Flexural Stress (sf)	ASTM D7264: 2021
20.		Chord Modulus (Ef) (Flexural Modulus)	ASTM D7264: 2021



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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Luminaires		
1.	Fixed General Purpose Luminaire	Photometric Test (luminous intensity)	Cl.17 IS 10322 (Part 5/Sec 1):2012, IS 16107 (Part 2/Sec 1): 2012
2.		Photometric Test (luminous flux)	Cl.17 IS 10322 (Part 5/Sec 1):2012, 16107 (Part 2/Sec 1): 2012
3.		Photometric Test (Co-related Color Temperature (CCT))	Cl.17 IS 10322 (Part 5/Sec 1):2012, IS 16107 (P-2/S-1): 2012 Cl.9.2
4.		Photometry Test (Luminous Efficacy)	Cl.17 IS 10322 (Part 5/Sec 1):2012, IS 16107 (P-2/S-1): 2012 Cl.8.3
5.		Photometry test (Color rendering Index (CRI))	Cl.17 IS 10322 (Part 5/Sec 1):2012, IS 16107 (P-2/S-1): 2012 Cl.9.3
6.		Photometry test (Chromaticity Coordinates)	Cl.17 IS 10322 (Part 5/Sec 1):2012, IS 16107 (P-2/S-1): 2012 Cl.9.1
	Recessed Lights		
7.	Recessed Lights	Photometric Test (luminous intensity)	Cl.17 IS 10322 (Part 5/Sec 2): 2012+A1 IS 16107 (Part 2/Sec 1): 2012
8.		Photometric Test (luminous flux)	Cl.17 IS 10322 (Part 5/Sec 2): 2012+A1 IS 16107 (Part 2/Sec 1): 2012
9.		Photometric Test (Co-related Color Temperature (CCT))	Cl.17 IS 10322 (Part 5/Sec 2): 2012+A1 reference to IS 16107 (P-2/S-1): 2012 Cl.9.2
10.		Photometry Test (Luminous Efficacy)	Cl.17 IS 10322 (Part 5/Sec 2): 2012+A1 refer to IS 16107 (P-2/S-1): 2012 Cl.8.3

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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Luminaires		
11.	Recessed Lights	Photometry test (Color rendering Index (CRI))	Cl.17 IS 10322 (Part 5/Sec 2): 2012+A1 refer to IS 16107 (P-2/S-1): 2012 Cl.9.3
12.		Photometry test (Chromaticity Coordinates)	Cl.17 IS 10322 (Part 5/Sec 2): 2012+A1 refer to IS 16107 (P-2/S-1): 2012 Cl.9.1
13.	Luminaires for road street lighting	Photometric Test (luminous intensity)	Cl.17 IS 10322 (Part 5/Sec 3): 2012 IS 16107 (Part 2/Sec 1): 2012
14.		Photometric Test (luminous flux)	Cl.17 IS 10322 (Part 5/Sec 3): 2012 IS 16107 (Part 2/Sec 1): 2012
15.		Photometric Test (Co-related Color Temperature (CCT))	Cl.17 IS 10322 (Part 5/Sec 3): 2012 reference to IS 16107 (P-2/S-1): 2012 Cl.9.2
16.		Photometry Test (Luminous Efficacy)	Cl.17 IS 10322 (Part 5/Sec 3): 2012 Refer to IS 16107 (P-2/S-1): 2012 Cl.8.3
17.		Photometry test (Color rendering Index (CRI))	Cl.17 IS 10322 (Part 5/Sec 3): 2012 refer to IS 16107 (P-2/S-1): 2012 Cl.9.3
18.		Photometry test (Chromaticity Coordinates)	Cl.17 IS 10322 (Part 5/Sec 3): 2012 refer to IS 16107 (P-2/S-1): 2012 Cl.9.1
19.	Flood Lights	Photometric Test (luminous intensity)	Cl.17 IS 10322 (Part 5/Sec 5): 2013+A1 IS 16107 (Part 2/Sec 1):2012



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Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Luminaires		
20.	Flood Lights	Photometric Test (luminous flux)	Cl.17 IS 10322 (Part 5/Sec 5): 2013+A1 IS 16107 (Part 2/Sec1): 2012
21.		Photometric Test (Co-related Color Temperature (CCT))	Cl.17 IS 10322 (Part 5/Sec 5): 2013+A1 reference to IS 16107 (P-2/S-1): 2012 Cl.9.2
22.		Photometry Test (Luminous Efficacy)	Cl.17 IS 10322 (Part 5/Sec 5): 2013+A1 refer to IS 16107 (P-2/S-1): 2012 Cl.8.3
23.		Photometry test (Color rendering Index (CRI))	Cl.17 IS 10322 (Part 5/Sec 5): 2013+A1 refer to IS 16107 (P-2/S-1): 2012 Cl.9.3
24.		Photometry test (Chromaticity Coordinates)	Cl.17 IS 10322 (Part 5/Sec 5): 2013+A1 refer to IS 16107 (P-2/S-1): 2012 Cl.9.1
25.	Solid State Lighting Products	Chromaticity Coordinates	ANSI/IES LM-79-19: 2019 (Cl.9)
26.		Chromaticity Coordinates	ANSI/IES LM-79-19: 2019 (Cl.9)
27.		Chromaticity Coordinates	IS 16106: 2012 Cl.14
28.	Luminaries Performance	Chromaticity Coordinates	IS 16106: 2012 Cl.14
29.		Chromaticity Coordinates	IS 16107 (P-2/S-1): 2012 Cl.9.1
30.	Solid State Lighting Products	Chromaticity Coordinates	IS 16107 (P-2/S-1): 2012 Cl.9.1
31.	Solid State Lighting Products	Color rendering Index (CRI)	ANSI/IES LM-79-19 (Cl.9)
32.		Color rendering Index (CRI)	IS 16106: 2012 Cl.14
33.	Luminaries Performance	Color rendering Index (CRI)	IS 16107: 2012 (P-2/S-1) Cl.9.3
34.	Solid State Lighting Products	Co-related Color Temperature (CCT)	ANSI/IES LM-79-19: 2019 (Cl.9)

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Standard Testing and Compliance

Plot No.-14/7, Parmeshwari Colony, Sector 31, Mathura Road
Faridabad-121008, Haryana, India

QAI/CIA/TL/2025/0105

Valid from: 26 February 2025

Valid until: 25 February 2027

Accreditation Standard: ISO/IEC 17025:2017

Photometry Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Luminaires		
35.		Co-related Color Temperature (CCT)	IS 16106: 2012 Cl.14
36.	Luminaries Performance	Co-related Color Temperature (CCT)	IS 16107: 2012 (P-2/S-1): 2012 Cl.9.2
37.	Solid State Lighting Products	Luminous Efficacy	ANSI/IES LM-79-19 (Cl.7)
38.		Luminous Efficacy	IS 16106: 2012 Cl.13
39.	Luminaries Performance	Luminous Efficacy	IS 16107: 2012 (P-2/S-1): 2012 Cl.8.3
40.	Solid State Lighting Products	Luminous Intensity Distribution	ANSI/IES LM-79-19: 2019 (Cl.8)
41.		Luminous Intensity Distribution	IS 16106: 2012 Cl.12
42.	Luminaries Performance	Luminous Intensity Distribution	IS 16107: 2012 (P-2/S-1) Cl.8.2
43.	Solid State Lighting Products	Power	ANSI/IES LM-79-19: 2019 (Cl.5)
44.		Power	IS 16106: 2012 Cl.10
45.		Power Factor (PF)	ANSI/IES LM-79-19: 2019 (Cl.5)
46.		Power Factor (PF)	IS 16106: 2012 Cl.10
47.		Total Luminous flux	ANSI/IES LM-79-19: 2019 (Cl.7)
48.	Solid State Lighting Products	Total Luminous flux	IS 16106: 2012 Cl.11
49.		Beam Angle	ANSI/IES LM-79-19: 2019 (Cl.8)
50.		Beam Angle	IS 16106: 2012 Cl.11
51.	Luminaries Performance	Marking	IS 16107: 2012 (P-2/S-1) Cl.4

