

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

**Classic Instrumentation Pvt. Ltd.**

C-45, Sector-65,  
Noida-201301, Uttar Pradesh, India

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

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

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



**QAI/CIA/TL/2024/0050**

Valid from: 10 May 2024

Valid until: 09 May 2026

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA



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## Scope of Accreditation

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QAI/CIA/TL/2024/0050

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Scope Amended w.e.f.: 07 September 2024

Valid until: 09 May 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
1.	Electric clothes washing machine, household refrigerating appliances	Classification	Cl.6 of IEC 60335-1:2020
2.	Electric clothes washing machine, household refrigerating appliances	Classification	Cl.6 of IS 302-1:2008+A4:2015
3.	Electric clothes washing machine, household refrigerating appliances	Marking and instruction	Cl.7 of IEC 60335-1:2020
4.	Electric clothes washing machine, household refrigerating appliances	Marking and instruction	Cl.7 of IS 302-1:2008+A4:2015
5.	Electric clothes washing machine, household refrigerating appliances	Protection against access to live Parts	Cl.8 of IEC60335-1:2020
6.	Electric clothes washing machine, household refrigerating appliances	Protection against access to live parts	Cl.8 of IS 302-1:2008+A4:2015
7.	Electric clothes washing machine, household refrigerating appliances	Starting of motor-operated appliance	Cl.9 of IEC60335-1:2020
8.	Electric clothes washing machine, household refrigerating appliances	Starting of motor-operated appliance	Cl.9 of IS 302-1:2008+A4:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
9.	Electric clothes washing machine, household refrigerating appliances	Power Input and current	Cl.10 of IEC 60335-1:2020
10.	Electric clothes washing machine, household refrigerating appliances	Power Input and current	Cl.10 of IS 302-1:2008+A4:2015
11.	Electric clothes washing machine, household refrigerating appliances	Heating	Cl.11 of IEC60335-1:2020
12.	Electric clothes washing machine, household refrigerating appliances	Heating	Cl.11 of IS 302-1:2008+A4:2015
13.	Electric clothes washing machine, household refrigerating appliances	Leakage current and electric strength at operating temperature	Cl.13 of IEC60335-1:2020
14.	Electric clothes washing machine, household refrigerating appliances	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-1:2008+A4:2015
15.	Electric clothes washing machine, household refrigerating appliances	Transient over voltage	Cl.14 of IEC60335-1:2020
16.	Electric clothes washing machine, household refrigerating appliances	Transient over voltage	Cl.14 of IS 302-1:2008+A4:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
17.	Electric clothes washing machine, household refrigerating appliances	Moisture resistance	Cl.15 of IEC60335-1:2020
18.	Electric clothes washing machine, household refrigerating appliances	Moisture resistance	Cl.15 of IS 302-1:2008+A4:2015
19.	Electric clothes washing machine, household refrigerating appliances	Leakage current and electric strength	Cl.16 of IEC60335-1:2020
20.	Electric clothes washing machine, household refrigerating appliances	Leakage current and electric strength	Cl.16 of IS 302-1:2008+A4:2015
21.	Electric clothes washing machine, household refrigerating appliances	Overload protection of transformers and associated circuit	Cl.17 of IEC60335-1:2020
22.	Electric clothes washing machine, household refrigerating appliances	Overload protection of transformers and associated circuit	Cl.17 of IS 302-1:2008+A4:2015+A4:2015
23.	Electric clothes washing machine, household refrigerating appliances	Abnormal operation	Cl.19 of IEC60335-1:2020
24.	Electric clothes washing machine, household refrigerating appliances	Abnormal operation	Cl.19 of IS 302-1:2008+A4:2015+A4:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
25.	Electric clothes washing machine, household refrigerating appliances	Stability and mechanical hazards	Cl.20 of IEC60335-1:2020
26.	Electric clothes washing machine, household refrigerating appliances	Stability and mechanical hazards	Cl.20 of IS 302-1:2008+A4:2015
27.	Electric clothes washing machine, household refrigerating appliances	Mechanical strength	Cl.21 of IEC60335-1:2020
28.	Electric clothes washing machine, household refrigerating appliances	Mechanical strength	Cl.21 of IS 302-1:2008+A4:2015
29.	Electric clothes washing machine, household refrigerating appliances	Construction	Cl.22 of IEC60335-1:2020
30.	Electric clothes washing machine, household refrigerating appliances	Construction	Cl.22 of IS 302-1:2008+A4:2015
31.	Electric clothes washing machine, household refrigerating appliances	Internal wiring	Cl.23 of IEC60335-1:2020
32.	Electric clothes washing machine, household refrigerating appliances	Internal wiring	Cl.23 of IS 302-1:2008+A4:2015

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
33.	Electric clothes washing machine, household refrigerating appliances	Components	Cl.24 of IEC60335-1:2020
34.	Electric clothes washing machine, household refrigerating appliances	Components	Cl.24 of IS 302-1:2008+A4:2015
35.	Electric clothes washing machine, household refrigerating appliances	Supply connection and external flexible cords	Cl.25 of IEC60335-1:2020
36.	Electric clothes washing machine, household refrigerating appliances	Supply connection and external flexible cords	Cl.25 of IS 302-1:2008+A4:2015
37.	Electric clothes washing machine, household refrigerating appliances	Terminal for external conductors	Cl.26 of IEC60335-1:2020
38.	Electric clothes washing machine, household refrigerating appliances	Terminal for external conductors	Cl.26 of IS 302-1:2008+A4:2015
39.	Electric clothes washing machine, household refrigerating appliances	Provision for earthing	Cl.27 of IEC 60335-1:2020
40.	Electric clothes washing machine, household refrigerating appliances	Provision for earthing	Cl.27 of IS 302-1:2008+A4:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
41.	Electric clothes washing machine, household refrigerating appliances	Screws and connection	Cl.28 of IEC60335-1:2020
42.	Electric clothes washing machine, household refrigerating appliances	Screws and connection	Cl.28 of IS 302-1:2008+A4:2015
43.	Electric clothes washing machine, household refrigerating appliances	Clearances, creepage distance and solid insulation	Cl.29 of IEC60335-1:2020
44.	Electric clothes washing machine, household refrigerating appliances	Clearances, creepage distance and solid insulation	Cl.29 of IS 302-1:2008+A4:2015
45.	Electric clothes washing machine, household refrigerating appliances	Resistance heat and fire	Cl.30 of IEC60335-1:2020
46.	Electric clothes washing machine, household refrigerating appliances	Resistance heat and fire	Cl.30 of IS 302-1:2008+A4:2015+A4:2015
47.	Electric clothes washing machine, household refrigerating appliances	Resistance to rusting	Cl.31 of IEC60335-1:2020
48.	Electric clothes washing machine, household refrigerating appliances	Resistance to rusting	Cl.31 of IS 302-1:2008+A4:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
49.	Electric clothes washing machine, household refrigerating appliances	Radiation, toxicity and similar hazards	Cl.32 of IEC60335-1:2020
50.	Electric clothes washing machine, household refrigerating appliances	Radiation, toxicity and similar hazards	Cl.32 of IS 302-1:2008+A4:2015
51.	Domestic electric clothes washing machine	General requirement	Cl.4 of IEC 60335-2-7:2019
52.	Domestic electric clothes washing machine	General requirement	Cl.4 of IS 302-2-7:2010
53.	Domestic electric clothes washing machine	General condition for the test	Cl.5 of IEC 60335-2-7:2019
54.	Domestic electric clothes washing machine	General condition for the test	Cl.5 of IS 302-2-7:2010
55.	Domestic electric clothes washing machine	Classification	Cl.6 of IEC 60335-2-7:2019
56.	Domestic electric clothes washing machine	Classification	Cl.6 of IS 302-2-7:2010
57.	Domestic electric clothes washing machine	Marking	Cl.7 of IEC 60335-2-7:2019
58.	Domestic electric clothes washing machine	Marking	Cl.7 of IS 302-2-7:2010
59.	Domestic electric clothes washing machine	Protection against access to live parts	Cl.8 of IEC 60335-2-7:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
60.	Domestic electric clothes washing machine	Protection against access to live parts	Cl.8 of IS 302-2-7:2010
61.	Domestic electric clothes washing machine	Power input & current (Input)	Cl.10 of IEC 60335-2-7:2019
62.	Domestic electric clothes washing machine	Power input & current (Input)	Cl.10 of IS 302-2-7:2010
63.	Domestic electric clothes washing machine	Power input & current (Input)	Cl.10 of IEC 60335-2-7:2019
64.	Domestic electric clothes washing machine	Power input & current (Input)	Cl.10 of IS 302-2-7:2010
65.	Domestic electric clothes washing machine	Heating	Cl.11 of IEC 60335-2-7:2019
66.	Domestic electric clothes washing machine	Heating	Cl.11 of IS 302-2-7:2010
67.	Domestic electric clothes washing machine	Leakage current and electric strength at operating temperature	Cl.13 of IEC 60335-2-7:2019
68.	Domestic electric clothes washing machine	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-7:2010
69.	Domestic electric clothes washing machine	Transient over voltage	Cl.14 of IEC 60335-2-7:2019
70.	Domestic electric clothes washing machine	Transient over voltage	Cl.14 of IS 302-2-7:2010

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
71.	Domestic electric clothes washing machine	Moisture resistance	Cl.15 of IEC 60335-2-7:2019
72.	Domestic electric clothes washing machine	Moisture resistance	Cl.15 of IS 302-2-7:2010
73.	Domestic electric clothes washing machine	Leakage current and electric strength after humidity	Cl.16 of IEC 60335-2-7:2019
74.	Domestic electric clothes washing machine	Leakage current and electric strength after humidity	Cl.16 of IS 302-2-7:2010
75.	Domestic electric clothes washing machine	Overload protection of Transformer and associated circuits	Cl.17 of IEC 60335-2-7:2019
76.	Domestic electric clothes washing machine	Overload protection of Transformer and associated circuits	Cl.17 of IS 302-2-7:2010
77.	Domestic electric clothes washing machine	Endurance	Cl.18 of IEC 60335-2-7:2019
78.	Domestic electric clothes washing machine	Endurance	Cl.18 of IS 302-2-7:2010
79.	Domestic electric clothes washing machine	Abnormal operation	Cl.19 of IEC 60335-2-7:2019
80.	Domestic electric clothes washing machine	Abnormal operation	Cl.19 of IS 302-2-7:2010
81.	Domestic electric clothes washing machine	Stability and mechanical hazards	Cl.20 of IEC 60335-2-7:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
82.	Domestic electric clothes washing machine	Stability and mechanical hazards	Cl.20 of IS 302-2-7:2010
83.	Domestic electric clothes washing machine	Mechanical strength	Cl.21 of IEC 60335-2-7:2019
84.	Domestic electric clothes washing machine	Mechanical strength	Cl.21 of IS 302-2-7:2010
85.	Domestic electric clothes washing machine	Construction	Cl.22 of IEC 60335-2-7:2019
86.	Domestic electric clothes washing machine	Construction	Cl.22 of IS 302-2-7:2010
87.	Domestic electric clothes washing machine	Internal wiring	Cl.23 of IEC 60335-2-7:2019
88.	Domestic electric clothes washing machine	Internal wiring	Cl.23 of IS 302-2-7:2010
89.	Domestic electric clothes washing machine	Components	Cl.24 of IEC 60335-2-7:2019
90.	Domestic electric clothes washing machine	Components	Cl.24 of IS 302-2-7:2010
91.	Domestic electric clothes washing machine	Supply connection and external flexible cords	Cl.25 of IEC 60335-2-7:2019
92.	Domestic electric clothes washing machine	Supply connection and external flexible cords	Cl.25 of IS 302-2-7:2010
93.	Domestic electric clothes washing machine	Terminals for external conductors	Cl.26 of IEC 60335-2-7:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
94.	Domestic electric clothes washing machine	Terminals for external conductors	Cl.26 of IS 302-2-7:2010
95.	Domestic electric clothes washing machine	Provision For earthing	Cl.27 of IEC 60335-2-7:2019
96.	Domestic electric clothes washing machine	Provision For earthing	Cl.27 of IS 302-2-7:2010
97.	Domestic electric clothes washing machine	Screws and connections	Cl.28 of IEC 60335-2-7:2019
98.	Domestic electric clothes washing machine	Screws and connections	Cl.28 of IS 302-2-7:2010
99.	Domestic electric clothes washing machine	Creepage distances, clearances and solid insulation	Cl.29 of IEC 60335-2-7:2019
100.	Domestic electric clothes washing machine	Creepage distances, clearances and solid insulation	Cl.29 of IS 302-2-7:2010
101.	Domestic electric clothes washing machine	Resistance to heat and fire	Cl.30 of IEC 60335-2-7:2019
102.	Domestic electric clothes washing machine	Resistance to heat and fire	Cl.30 of IS 302-2-7:2010
103.	Domestic electric clothes washing machine	Resistance to rusting	Cl.31 of IEC 60335-2-7:2019
104.	Domestic electric clothes washing machine	Resistance to rusting	Cl.31 of IS 302-2-7:2010
105.	Domestic electric clothes washing machine	Radiation, toxicity and similar hazards	Cl.32 of IEC 60335-2-7:2019

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
106.	Domestic electric clothes washing machine	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-7:2010
107.	Domestic electric clothes washing machine	General requirement	Cl.4 of IEC 60335-2-7:2024
108.	Domestic electric clothes washing machine	General requirement	Cl.4 of IS 302-2-7:2024
109.	Domestic electric clothes washing machine	General condition for the test	Cl.5 of IEC 60335-2-7:2024
110.	Domestic electric clothes washing machine	General condition for the test	Cl.5 of IS 302-2-7:2024
111.	Domestic electric clothes washing machine	Classification	Cl.6 of IEC 60335-2-7:2024
112.	Domestic electric clothes washing machine	Classification	Cl.6 of IS 302-2-7:2024
113.	Domestic electric clothes washing machine	Marking and instruction	Cl.7 of IEC 60335-2-7:2024
114.	Domestic electric clothes washing machine	Marking and instruction	Cl.7 of IS 302-2-7:2024
115.	Domestic electric clothes washing machine	Protection against access to live parts	Cl.8 of IEC 60335-2-7:2024
116.	Domestic electric clothes washing machine	Protection against access to live parts	Cl.8 of IS 302-2-7:2024
117.	Domestic electric clothes washing machine	Power input & current (current)	Cl.10 of IEC 60335-2-7:2024

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
118.	Domestic electric clothes washing machine	Power input & current (current)	Cl.10 of IS 302-2-7:2024
119.	Domestic electric clothes washing machine	Power input & current (current)	Cl.10 of IEC 60335-2-7:2024
120.	Domestic electric clothes washing machine	Power input & current (current)	Cl.10 of IS 302-2-7:2024
121.	Domestic electric clothes washing machine	Heating	Cl.11 of IEC 60335-2-7:2024
122.	Domestic electric clothes washing machine	Heating	Cl.11 of IS 302-2-7:2024
123.	Domestic electric clothes washing machine	Leakage current and electric strength at operating temperature	Cl.13 of IEC 60335-2-7:2024
124.	Domestic electric clothes washing machine	Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-7:2024
125.	Domestic electric clothes washing machine	Transient over voltage	Cl.14 of IEC 60335-2-7:2024
126.	Domestic electric clothes washing machine	Transient over voltage	Cl.14 of IS 302-2-7:2024
127.	Domestic electric clothes washing machine	Moisture resistance	Cl.15 of IEC 60335-2-7:2024
128.	Domestic electric clothes washing machine	Moisture resistance	Cl.15 of IS 302-2-7:2024

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129.	Domestic electric clothes washing machine	Leakage current and electric strength	Cl.16 of IEC 60335-2-7:2024
130.	Domestic electric clothes washing machine	Leakage current and electric strength	Cl.16 of IS 302-2-7:2024
131.	Domestic electric clothes washing machine	Overload protection of transformer and associated circuits	Cl.17 of IEC 60335-2-7:2024
132.	Domestic electric clothes washing machine	Overload protection of transformer and associated circuits	Cl.17 of IS 302-2-7:2024
133.	Domestic electric clothes washing machine	Endurance	Cl.18 of IEC 60335-2-7:2024
134.	Domestic electric clothes washing machine	Endurance	Cl.18 of IS 302-2-7:2024
135.	Domestic electric clothes washing machine	Abnormal Operation	Cl.19 of IEC 60335-2-7:2024
136.	Domestic electric clothes washing machine	Abnormal Operation	Cl.19 of IS 302-2-7:2024
137.	Domestic electric clothes washing machine	Stability and mechanical hazards	Cl.20 of IEC 60335-2-7:2024
138.	Domestic electric clothes washing machine	Stability and mechanical hazards	Cl.20 of IS 302-2-7:2024
139.	Domestic electric clothes washing machine	Mechanical strength	Cl.21 of IEC 60335-2-7:2024

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	<b>Safety Testing Facility</b>		
140.	Domestic electric clothes washing machine	Mechanical strength	Cl.21 of IS 302-2-7:2024
141.	Domestic electric clothes washing machine	Construction	Cl.22 of IEC 60335-2-7:2024
142.	Domestic electric clothes washing machine	Construction	Cl.22 of IS 302-2-7:2024
143.	Domestic electric clothes washing machine	Internal wiring	Cl.23 of IEC 60335-2-7:2024
144.	Domestic electric clothes washing machine	Internal wiring	Cl.23 of IS 302-2-7:2024
145.	Domestic electric clothes washing machine	Components	Cl.24 of IEC 60335-2-7:2024
146.	Domestic electric clothes washing machine	Components	Cl.24 of IS 302-2-7:2024
147.	Domestic electric clothes washing machine	Supply connection and external flexible cords	Cl.25 of IEC 60335-2-7:2024
148.	Domestic electric clothes washing machine	Supply connection and external flexible cords	Cl.25 of IS 302-2-7:2024
149.	Domestic electric clothes washing machine	Terminals for external conductors	Cl.26 of IEC 60335-2-7:2024
150.	Domestic electric clothes washing machine	Terminals for external conductors	Cl.26 of IS 302-2-7:2024
151.	Domestic electric clothes washing machine	Provision For Earthing	Cl.27 of IEC 60335-2-7:2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
152.	Domestic electric clothes washing machine	Provision For Earthing	Cl.27 of IS 302-2-7:2024
153.	Domestic electric clothes washing machine	Screws and Connections	Cl.28 of IEC 60335-2-7:2024
154.	Domestic electric clothes washing machine	Screws and connections	Cl.28 of IS 302-2-7:2024
155.	Domestic electric clothes washing machine	Clearances, creepage distances and solid insulation	Cl.29 of IEC 60335-2-7:2024
156.	Domestic electric clothes washing machine	Clearances, creepage distances and solid insulation	Cl.29 of IS 302-2-7:2024
157.	Domestic electric clothes washing machine	Resistance To heat and fire	Cl.30 of IEC 60335-2-7:2024
158.	Domestic electric clothes washing machine	Resistance To heat and fire	Cl.30 of IS 302-2-7:2024
159.	Domestic electric clothes washing machine	Resistance To rusting	Cl.31 of IEC 60335-2-7:2024
160.	Domestic electric clothes washing machine	Resistance To rusting	Cl.31 of IS 302-2-7:2024
161.	Domestic electric clothes washing machine	Radiation, toxicity and similar hazards	Cl.32 of IEC 60335-2-7:2024
162.	Domestic electric clothes washing machine	Radiation, toxicity and similar hazards	Cl.32 of IS 302-2-7:2024
163.	Domestic electric clothes washing machine	Ageing test for elastomeric Parts, detergent free electrolyser washing machines	Annex BB, Annex CC IEC60335-2-7:2024, IS 3400-6:2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
164.	Domestic electric clothes washing machine	Ageing test for elastomeric parts, detergent free electrolyser washing machines	Annex BB, Annex CC IS302-2-7:2024, IS 3400-6:2018
165.	Household refrigerating appliances	Automatic ice making capacity test	Cl.9 of IEC 62552-2:2015+A1:2020
166.	Household refrigerating appliances	Determination of compartment average air temperatures	Annex D of IEC 62552-1:2015
167.	Household refrigerating appliances	Determination of steady state power & temperature	Annex B of IEC62552-3:2015+A1:2020
168.	Household refrigerating appliances	Determination of volume	Cl.4.8 of IEC62552-3 & Annex H of IEC62552-3:2015+A1:2020
169.	Household refrigerating appliances	Energy consumption of specified auxiliaries	Annex F of IEC62552-3:2015+A1:2020
170.	Household refrigerating appliances	Interpolation of results	Annex E of IEC62552-3:2015+A1:2020
171.	Household refrigerating appliances	Pull-down test	Annex A of IEC 62552-2:2015+A1:2020
172.	Household refrigerating appliances	Storage test	Cl.6of IEC62552-2:2015+A1:2020
173.	Household refrigerating appliances	Temperature rise test	Annex C of IEC 62552-2:2015+A1:2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
174.	Household refrigerating appliances	Wine storage appliances & compartments storage test	Annex B of IEC62552-2:2015+A1:2020
175.	Household refrigerating appliances	Cooling capacitive test	Cl.7 of IEC62552-2:2015+A1:2020
176.	Household refrigerating appliances	Defrost and recovery energy and temperature change	Annex C of IEC62552-3:2015+A1:2020
177.	Household refrigerating appliances	Defrost interval	Annex D of IEC62552-3:2015+A1:2020
178.	Household refrigerating appliances	Determination of energy consumption	Cl.6 of IEC62552-3 & Annex A of IEC62552-3:2015+A1:2020
179.	Household refrigerating appliances	Determination of load processing efficiency	Annex G of IEC62552-3:2015+A1:2020
180.	Household refrigerating appliances	Freezing capacitive test	Cl.8 of IEC62552-2:2015+A1:2020
181.	Household refrigerating appliances	Classification	Cl.4 of IS17550-1:2021
182.	Household refrigerating appliances	Marking	Cl.5 of IS17550-1:2021
183.	Household refrigerating appliances	Determination of linear dimensions	Cl.6.2 of IS17550-1:2021
184.	Household refrigerating appliances	Instructions	Cl.7 of IS17550-1:2021
185.	Household refrigerating appliances	Materials and finishes	Cl.8.2 of IS17550-1:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
186.	Household refrigerating appliances	Thermal insulation and air tightness	Cl.8.3 of IS17550-1:2021
187.	Household refrigerating appliances	Doors, lids and fittings	Cl.8.4 of IS17550-1:2021
188.	Household refrigerating appliances	Shelves and containers	Cl.8.5 of IS17550-1:2021
189.	Household refrigerating appliances	Disposal of defrost water	Cl.8.6 of IS17550-1:2021
190.	Household refrigerating appliances	Refrigerating system	Cl.8.7 of IS17550-1:2021
191.	Household refrigerating appliances	Supply cord	Cl.8.8 of IS17550-1:2021
192.	Household refrigerating appliances	Compressor	Cl.8.9 of IS17550-1:2021
193.	Household refrigerating appliances	Temperature sensing controls (Thermostat)	Cl.8.10 of IS17550-1:2021
194.	Household refrigerating appliances	Temperature sensing controls (Thermostat) setting	Cl.8.11 of IS17550-1:2021
195.	Household refrigerating appliances	Testing the air tightness of door or lid seal(s)	Cl.9 of IS17550-1:2021
196.	Household refrigerating appliances	Testing the opening force of Door(s) or lid(s)	Cl.10 of IS17550-1:2021
197.	Household refrigerating appliances	Testing the durability of hinges and handles of door(s) and lid(s)	Cl.11 of IS17550-1:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
198.	Household refrigerating appliances	Testing the mechanical strength of shelves and similar components	Cl.12 of IS17550-1:2021
199.	Household refrigerating appliances	Water-vapour condensation test	Cl.13 of IS17550-1:2021 & Annex D IS17550-1:2021
200.	Household refrigerating appliances	Ice-making test (if applicable)	Cl.14 of IS17550-1:2021 & IS17550-3:2021
201.	Household refrigerating appliances	Test for absence of odour and Taste	Cl.15 of IS17550-1:2021
202.	Household refrigerating appliances	Protection against access to live parts	Cl.16 (a) of IS17550-1:2021 and IS 302-1:2008+A4:2015
203.	Household refrigerating appliances	Power input and current	Cl.16 (b) of IS17550-1:2021 and IS 302-1:2008+A4:2015
204.	Household refrigerating appliances	Heating	Cl.16 (c) of IS17550-1:2021 and IS302-1:2008+A4:2015
205.	Household refrigerating appliances	Leakage current and electric strength at operating temperature	Cl.16 (d) of IS17550-1:2021 and IS302-1:2008+A4:2015
206.	Household refrigerating appliances	Moisture resistance	Cl.16 (e) of IS17550-1:2021 and IS302-1:2008+A4:2015
207.	Household refrigerating appliances	Leakage current and electric strength (high voltage after humidity)	Cl.16 (f) of IS17550-1:2021 and IS 302-1:2008+A4:2015
208.	Household refrigerating appliances	Leakage current test	Cl.20.3 (a) of IS17550-1:2021 and IS 302-1:2008+A4:2015

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
209.	Household refrigerating appliances	Earth continuity test	Cl.20.3 (b) of IS17550-1:2021 and IS 302-1:2008+A4:2015
210.	Household refrigerating appliances	Electric strength	Cl.20.3 (c) of IS17550-1:2021 and IS 302-1:2008+A4:2015
211.	Household refrigerating appliances	Storage test	Cl.4.2 of IS17550-2:2021
212.	Household refrigerating appliances	Cooling capacity test	Cl.4.3 of IS17550-2:2021
213.	Household refrigerating appliances	Freezing capacity test	Cl.4.4 of IS17550-2:2021
214.	Household refrigerating appliances	Automatic ice-making capacity test	Cl.4.5 of IS17550-2:2021
215.	Household refrigerating appliances	Other tests	Cl.4.6 of IS17550-2:2021
216.	Household refrigerating appliances	Pull-down test	Cl.4.6(a) of IS17550-2:2021 & Annex A of IS17550-2:2021
217.	Household refrigerating appliances	Wine storage test	Cl.4.6(b) of IS17550-2:2021 & Annex B of IS17550-2:2021
218.	Household refrigerating appliances	Temperature rise test	Cl.4.6(c) of IS17550-2:2021 & Annex C of IS17550-2:2021
219.	Household refrigerating appliances	Water vapour condensation test	Cl.4.6(d) of IS17550-2:2021 & Annex D of IS17550-2:2021
220.	Household refrigerating appliances	General test conditions	Cl.5 of IS17550-2:2021 and Annex A & Annex B of IS17550-1:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Safety Testing Facility</b>		
221.	Household refrigerating appliances	Storage test	Cl.6 of IS17550-2:2021
222.	Household refrigerating appliances	Cooling capacity test	Cl.7 of IS17550-2:2021
223.	Household refrigerating appliances	Freezing capacity test	Cl.8 of IS17550-2:2021
224.	Household refrigerating appliances	Automatic ice-making capacity test	Cl.9 of IS17550-2:2021
225.	Household refrigerating appliances	Pull-down test	Annex A of IS17550-2:2021
226.	Household refrigerating appliances	Wine storage appliances and compartments; storage test	Annex B of IS17550-2:2021
227.	Household refrigerating appliances	Temperature rise test	Annex C of IS17550-2:2021
228.	Household refrigerating appliances	Water vapour condensation test	Annex D of IS17550-2:2021
229.	Household refrigerating appliances	Steady state power consumption	Cl.4.2 of IS17550-3:2021 & Annex B of IS17550-3:2021
230.	Household refrigerating appliances	Defrost and recovery energy and temperature change	Cl.4.3 of IS17550-3:2021 & Annex C of IS17550-3:2021
231.	Household refrigerating appliances	Defrost frequency	Cl.4.4 of IS17550-3:2021 & Annex D of IS17550-3:2021
232.	Household refrigerating appliances	Number of test points and interpolation	Cl.4.5 of IS17550-3:2021 & Annex E of IS17550-3:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
233.	Household refrigerating appliances	Load processing efficiency	Cl.4.6 of IS17550-3:2021 & Annex G of IS17550-3:2021
234.	Household refrigerating appliances	Specified auxiliaries	Cl.4.7 of IS17550-3:2021 & Annex F of IS17550-3:2021
235.	Household refrigerating appliances	Volume determination	Cl.4.8 of IS17550-3:2021 & Annex H of IS17550-3:2021
236.	Household refrigerating appliances	Target temperatures for energy Determination	Cl.5 of IS17550-3:2021
237.	Household refrigerating appliances	Determination of energy Consumption	Cl.6 of IS17550-3:2021 & Annex A of IS17550-3:2021
238.	Household refrigerating appliances	Determination of steady state power and temperature	Annex B of IS 17550-3:2021
239.	Household refrigerating appliances	Defrost and recovery energy and temperature change	Annex C of IS 17550-3:2021
240.	Household refrigerating appliances	Defrost interval	Annex D of IS 17550-3:2021
241.	Household refrigerating appliances	Interpolation of results	Annex E of IS 17550-3:2021
242.	Household refrigerating appliances	Energy consumption of specified auxiliaries	Annex F of IS 17550-3:2021
243.	Household refrigerating appliances	Determination of load processing efficiency	Annex G of IS 17550-3:2021
244.	Household refrigerating appliances	Determination of volume	Annex H of IS 17550-3:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Safety Testing Facility		
245.	Household refrigerating appliances	Analysis of a refrigerating appliance without steady state between defrosts.	Annex L of IS17550-3:2021

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cells & Batteries		
1.	Secondary cells and batteries (Nickel systems)	Parameter measurement tolerance	Cl.4, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
2.	Secondary cells and batteries (Nickel systems)	General safety considerations	Cl.5, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
3.	Secondary cells and batteries (Nickel systems)	General	Cl.5.1, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
4.	Secondary cells and batteries (Nickel systems)	Insulation and wiring	Cl.5.2, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
5.	Secondary cells and batteries (Nickel systems)	Venting	Cl.5.3, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
6.	Secondary cells and batteries (Nickel systems)	Temperature, voltage and current management	Cl.5.4, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
7.	Secondary cells and batteries (Nickel systems)	Terminal contacts	Cl.5.5, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
8.	Secondary cells and batteries (Nickel systems)	Assembly of cells into batteries	Cl.5.6, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cells &amp; Batteries</b>		
9.	Secondary cells and batteries (Nickel systems)	Quality plan	Cl.5.7, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
10.	Secondary cells and batteries (Nickel systems)	Type test and sample size	Cl.6.0, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
11.	Secondary cells and batteries (Nickel systems)	Specific requirements and tests	Cl.7.0, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
12.	Secondary cells and batteries (Nickel systems)	Charging procedure for test purposes	Cl.7.1, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
13.	Secondary cells and batteries (Nickel systems)	Intended Use	Cl.7.2, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
14.	Secondary cells and batteries (Nickel systems)	Continuous low-rate charging (Cells)	Cl.7.2.1, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
15.	Secondary cells and batteries (Nickel systems)	Vibration	Cl.7.2.2, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
16.	Secondary cells and batteries (Nickel systems)	Case stress at high ambient temperature (batteries)	Cl.7.2.3, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
17.	Secondary cells and batteries (Nickel systems)	Temperature cycling	Cl.7.2.4, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
18.	Secondary cells and batteries (Nickel systems)	Reasonably foreseeable misuse	Cl.7.3, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
19.	Secondary cells and batteries (Nickel systems)	Incorrect installation (cells)	Cl.7.3.1, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cells &amp; Batteries</b>		
20.	Secondary cells and batteries (Nickel systems)	External short circuit	Cl.7.3.2, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
21.	Secondary cells and batteries (Nickel systems)	Free fall	Cl.7.3.3, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
22.	Secondary cells and batteries (Nickel systems)	Mechanical shock (crash hazard)	Cl.7.3.4, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
23.	Secondary cells and batteries (Nickel systems)	Thermal abuse (cells)	Cl.7.3.5, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
24.	Secondary cells and batteries (Nickel systems)	Crushing of cells	Cl.7.3.6, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
25.	Secondary cells and batteries (Nickel systems)	Low pressure (cells)	Cl.7.3.7, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
26.	Secondary cells and batteries (Nickel systems)	Overcharge	Cl.7.3.8, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
27.	Secondary cells and batteries (Nickel systems)	Forced discharge (cells)	Cl.7.3.9, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
28.	Secondary cells and batteries (Nickel systems)	Information for safety	Cl.8.0, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
29.	Secondary cells and batteries (Nickel systems)	General	Cl.8.1, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
30.	Secondary cells and batteries (Nickel systems)	Small cell and battery safety information	Cl.8.2, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
31.	Secondary cells and batteries (Nickel systems)	Marking	Cl.9.0, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cells &amp; Batteries</b>		
32.	Secondary cells and batteries (Nickel systems)	Cell marking	Cl.9.1, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
33.	Secondary cells and batteries (Nickel systems)	Battery marking	Cl.9.2, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
34.	Secondary cells and batteries (Nickel systems)	Caution for ingestion of small cells and batteries	Cl.9.3, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
35.	Secondary cells and batteries (Nickel systems)	Other information	Cl.9.4, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
36.	Secondary cells and batteries (Nickel systems)	Packaging	Cl.10, IS 16046 (Part- 1): 2018 & IEC 62133-1: 2017
37.	Secondary cells and batteries (Lithium system)	Parameter measurement Tolerance	Cl.4, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
38.	Secondary cells and batteries (Lithium system)	General safety considerations	Cl.5, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
39.	Secondary cells and batteries (Lithium system)	General	Cl.5.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
40.	Secondary cells and batteries (Lithium system)	Insulation and wiring	Cl.5.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
41.	Secondary cells and batteries (Lithium system)	Venting	Cl.5.3, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
42.	Secondary cells and batteries (Lithium system)	Temperature, voltage and current management	Cl.5.4, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cells &amp; Batteries</b>		
43.	Secondary cells and batteries (Lithium system)	Terminal contacts	Cl.5.5, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
44.	Secondary cells and batteries (Lithium system)	Assembly of Cells into batteries	Cl.5.6, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
45.	Secondary cells and batteries (Lithium system)	Quality Plan	Cl.5.7, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
46.	Secondary cells and batteries (Lithium system)	Battery safety components	Cl.5.8, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
47.	Secondary cells and batteries (Lithium system)	Type Test amd Sample Size	Cl.6, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
48.	Secondary cells and batteries (Lithium system)	Specific requirements and tests	Cl.7, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
49.	Secondary cells and batteries (Lithium system)	Charging procedures for test purposes	Cl.7.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
50.	Secondary cells and batteries (Lithium system)	Intended use	Cl.7.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
51.	Secondary cells and batteries (Lithium system)	Continuous charging at constant voltage (cells)	Cl.7.2.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
52.	Secondary cells and batteries (Lithium system)	Case stress at high ambient temperature (battery)	Cl.7.2.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
53.	Secondary cells and batteries (Lithium system)	Reasonably foreseeable misuse	Cl.7.3, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cells &amp; Batteries</b>		
54.	Secondary cells and batteries (Lithium system)	External short-circuit (cell)	Cl.7.3.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
55.	Secondary cells and batteries (Lithium system)	External short-circuit (battery)	Cl.7.3.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
56.	Secondary cells and batteries (Lithium system)	Free fall	Cl.7.3.3, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
57.	Secondary cells and batteries (Lithium system)	Thermal abuse (cells)	Cl.7.3.4, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
58.	Secondary cells and batteries (Lithium system)	Crush (cells)	Cl.7.3.5, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
59.	Secondary cells and batteries (Lithium system)	Over-charging of battery	Cl.7.3.6, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
60.	Secondary cells and batteries (Lithium system)	Forced discharge (cells)	Cl.7.3.7, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
61.	Secondary cells and batteries (Lithium system)	Mechanical tests (batteries)	Cl.7.3.8, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
62.	Secondary cells and batteries (Lithium system)	Vibration	Cl.7.3.8.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
63.	Secondary cells and batteries (Lithium system)	Mechanical shock	Cl.7.3.8.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
64.	Secondary cells and batteries (Lithium system)	Information for safety	Cl.8, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
65.	Secondary cells and batteries (Lithium system)	General	Cl.8.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cells &amp; Batteries</b>		
66.	Secondary cells and batteries (Lithium system)	Small cell and battery safety information	Cl.8.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
67.	Secondary cells and batteries (Lithium system)	Marking	Cl.9, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
68.	Secondary cells and batteries (Lithium system)	Cell marking	Cl.9.1, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
69.	Secondary cells and batteries (Lithium system)	Battery Marking	Cl.9.2, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
70.	Secondary cells and batteries (Lithium system)	Caution for ingestion of small cells and batteries	Cl.9.3, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
71.	Secondary cells and batteries (Lithium system)	Other information	Cl.9.4, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
72.	Secondary cells and batteries (Lithium system)	Packaging	Cl.10, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021
73.	Secondary cells and batteries (Lithium system)	Measurement of the internal AC resistance for coin cells	Annex D, IS 16046 (Part- 2): 2018 & IEC 62133-2: 2017+A1:2021

Electrical Testing			
Sl No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
1.	Microwave oven	Energy consumption test	Cl. 14 of IEC 60705:2010 + AMD1:2014 + AMD2:2018

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Electrical Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
			Cl.4 BEE Schedule 22, Cl. 14, IS 11676: 1995 (RAF 2016)
2.	Microwave oven	Microwave function efficiency	Cl.4 BEE Schedule 22, Cl. 9, IS 11676: 1995 Cl. 9 of IEC 60705:2010+AMD1:2014+AMD2:2018
3.	Microwave oven	Power consumption in standby Mode	Cl. 15 of IEC 60705:2010+AMD1:2014+AMD2:2018 Cl. 5, 6 of IEC 62301 (Edition 2.0): 2011
4.	Microwave oven	Determination of microwave power output	Cl. 8 of IEC 60705:2010+AMD1:2014+AMD2:2018

Electrical Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	EMC Test Facility		
1.	Electrical lighting and similar equipment	Conducted emission test Radiated emission test	CISPR 15:2018

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Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>IT Equipment</b>		
1.	Information technology equipment- visual display units (VDU), video monitors,	Components	Cl. 1.5, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
2.	printers & plotters, laptop/ tablets/notebook, scanners & iris scanners, wireless	Power interface	Cl. 1.6, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
3.	keyboards, telephone answering machines, set top box, automatic data	Markings and instructions	Cl. 1.7, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
4.	processing machine (ADP), power adaptors for it equipment, mobile phones, cash registers, point of sale	Protection from electric shock and energy hazards	Cl. 2.1, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
5.	terminals, copying machines/ duplicators, smart card readers, mail processing	SELV circuits	Cl. 2.2, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
6.	machines/ postage machines/ franking machines, passport reader, power bank for use in	TNV circuits	Cl. 2.3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
7.	portable applications, CCTV camera/CCTV recorder, USB driven barcode readers,	Limited current circuits	Cl. 2.4, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
8.	barcode scanners, optical finger print scanner, smart watch, switching mode power	Limited power sources	Cl. 2.5, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013

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Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>IT Equipment</b>		
9.	supply with output voltage 48V max., keyboard, automatic teller cash	Provisions for earthing and bonding	Cl. 2.6, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
10.	dispensing machine, USB type external solid state storage device (Above 256GB capacity, digital camera, video camera	Overcurrent and earth fault protection in primary circuits	Cl. 2.7, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
11.		Safety interlocks	Cl. 2.8, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
12.		Electrical insulation	Cl. 2.9, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
13.		Clearances, creepage distances and distances through insulation	Cl. 2.10, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
14.		Wiring, connection & supply	Cl. 3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
15.		General	Cl. 3.1, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
16.		Connection to a mains supply	Cl. 3.2, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013

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Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
17.		Wiring terminals for connection of external conductors	Cl. 3.3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
18.		Disconnection from the mains supply	Cl. 3.4, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
19.		Interconnection of equipment	Cl. 3.5, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
20.		Stability	Cl. 4.1, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
21.		Mechanical strength	Cl. 4.2, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013 Exclusion cl. 4.2.8, 4.2.9, 4.3.13
22.		Design and construction	Cl. 4.3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
23.		Protection against hazardous moving parts	Cl. 4.4, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
24.		Thermal requirements	Cl. 4.5, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013

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	IT Equipment		
25.		Openings in enclosures	Cl. 4.6, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
26.		Resistance to fire	Cl. 4.7, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
27.		Touch current and protective conductor current	Cl. 5.1, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
28.		Electric strength	Cl. 5.2, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
29.		Abnormal operating and fault conditions	Cl. 5.3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
30.		Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	Cl. 6.1, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
31.		Protection of equipment users from over voltages on networks telecommunication	Cl. 6.2, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013

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Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	IT Equipment		
32.		Protection of the tele-communication wiring system from overheating	Cl. 6.3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
33.		Connection to cable distribution systems	Cl. 7, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
34.		General requirements	Cl. 7.1, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
35.		Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	Cl. 7.2, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
36.		Protection of equipment users from over voltages on the cable distribution system)	Cl. 7.3, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013
37.		Insulation between primary circuits and cable distribution systems	Cl. 7.4, IS 13252 (Part 1): 2010, +A1:2013 +A2:2015, RAF: 2019, IEC 60950-1:2005+A1:2009+A2:2013

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Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Audio Equipment</b>		
1.	Audio, video and similar electronic apparatus- safety requirements, electronics games (Video), plasma/ LCD/ LED television of screen size 32" and above , plasma/ LCD/LED television of screen Size up-to 32", optical disk players with built in amplifiers of input power 200W and above, amplifier with input power 2000W and above, power adaptors for audio, video & similar electronic apparatus, electronic musical System with input power 200 W and above, bluetooth speakers, smart speakers (with and without display), webcam (finished product), video camera, wireless headphone & earphone, electronic musical system with input power below 200 watts, television	Marking and instructions	Cl. 5, IS 616: 2017 RAF: 2020, IEC 60065: 2014
2.		Heating under normal operating conditions	Cl. 7, IS 616: 2017 RAF: 2020, IEC 60065: 2014
3.		Constructional requirements with regard to the protection against electric shock	Cl. 8, IS 616: 2017 RAF: 2020, IEC 60065: 2014
4.		Electric shock hazard under normal operating conditions	Cl. 9, IS 616: 2017 RAF: 2020, IEC 60065: 2014
5.		Insulation requirements	Cl. 10, IS 616: 2017 RAF: 2020, IEC 60065: 2014
6.		Fault conditions	Cl. 11, IS 616: 2017 RAF: 2020, IEC 60065: 2014
7.		Mechanical strength	Cl. 12, IS 616: 2017 RAF: 2020, IEC 60065: 2014
8.		Clearances and creepage distances	Cl. 13, IS 616: 2017 RAF: 2020, IEC 60065: 2014
9.		Components	Cl. 14, IS 616: 2017 RAF: 2020, IEC 60065: 2014
10.		Terminals	Cl. 15, IS 616: 2017 RAF: 2020, IEC 60065: 2014
11.		External flexible cords	Cl. 16, IS 616: 2017 RAF: 2020, IEC 60065: 2014
12.		Electrical connections and mechanical fixings	Cl. 17, IS 616: 2017 RAF: 2020, IEC 60065: 2014

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Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Audio Equipment</b>		
13.	other than Plasma/ LCD/LED TVs, wireless microphone	Mechanical strength of picture tubes and protection against the effects of implosion	Cl. 18, IS 616: 2017 RAF: 2020, IEC 60065: 2014
14.		Stability and mechanical hazards	Cl. 19, IS 616: 2017 RAF: 2020, IEC 60065: 2014
15.		Resistance to fire	Cl. 20, IS 616: 2017 RAF: 2020, IEC 60065: 2014
16.	Mobile phone handsets	Inputting of text	Cl. 5.1, IS 16333 (Part 3): 2022
17.		Messaging readability	Cl. 5.2 IS 16333 (Part 3): 2022
18.		Marking	Cl. 6 IS 16333 (Part 3): 2022
19.		Inputting of text	IS 16350: 2016 (RAF 2020)

Electronic Testing			
SI No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>EMC Test Facility</b>		
1.	Electrical and electronics equipment	Surge immunity test	Surge Immunity Test IEC 61000-4-5: 2014+A1:2017 EN 61000-4-5: 2014+A1:2017
2.	Electrical and electronics equipment	Immunity to fast transient/ burst test	Immunity to fast transient/burst test IEC 61000-4-4: 2012 EN 61000-4-4: 2012
3.	Electronics (multimedia) equipment	Conducted emission test	CISPR 32:2015

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