

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### **National Testing Bureau**

Khasra No. 883, Opp. Gali No. 9, Mamraj Nagar, Sihani Road,  
Ghaziabad-201003, 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/2024/0067**

Valid from: 26 July 2024

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

Valid until: 25 July 2026

**Prof. Vikram Kumar**  
Chair, CIA



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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>Domestic Electrical Appliances</b>		
1.	Electric iron	Classification and rating	Clause (6) IS 302 (Part 2) (Section 3): 2007
2.	Electric iron	Marking and instructions	Clause (7) IS 302 (Part 2) (Section 3): 2007
3.	Electric Iron	Protection against access to live part	Clause (8) IS 302 (Part 2) (Section 3): 2007
4.	Electric iron	Starting of motor operated appliances	Clause (9) IS 302 (Part 2) (Section 3): 2007
5.	Electric iron	Power input and current	Clause (10) IS 302 (Part 2) (Section 3): 2007
6.	Electric iron	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 3): 2007
7.	Electric iron	Leakage current and electric strength at operating temperature	Clause (13) IS 302 (Part 2) (Section 3): 2007
8.	Electric iron	Transient over voltage	Clause (14) IS 302 (part 2) (Section 3): 2007
9.	Electric iron	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 3): 2007
10.	Electric iron	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 3): 2007
11.	Electric iron	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 3): 2007

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
12.	Electric iron	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 3): 2007
13.	Electric iron	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 3): 2007
14.	Electric iron	Construction	Clause (22) IS 302 (Part 2) (Section 3): 2007
15.	Electric iron	Internal wiring	Clause (23) IS 302 (Part 2) (Section 3): 2007
16.	Appliances for heating liquids	Supply connection and external flexible cords	Clause (25) IS 302 (Part 2) (Section 3): 2007
17.	Appliances for heating liquids	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 3): 2007
18.	Electric iron	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 3): 2007
19.	Electric iron	Screws and connections	Clause (28) IS 302 (Part 2) (Section 3): 2007
20.	Electric iron	Clearance, creepage distances and solid insulation	Clause (29) IS 302 (Part 2) (Section 3): 2007
21.	Electric iron	Resistance to heat and fire	Clause (30) IS 302 (Part 2) (Section 3): 2007
22.	Electric iron	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 3): 2007
23.	Electric iron	Classification and rating	Clause (6) / IEC 60335 (Part 2) (Section 3): 2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
24.	Electric iron	Marking and instruction	Clause (7) / IEC 60335 (Part 2) (Section 3): 2012
25.	Electric iron	Protection against access to live parts	Clause (8) / IEC 60335 (Part 2) (Section 3): 2012
26.	Electric iron	Starting of motor operated appliances	Clause (9) IEC 60335 (Part 2) (Section 3): 2012
27.	Electric iron	Power input and current	Clause (10) IEC 60335 (Part 2) (Section 3): 2012
28.	Electric iron	Temperature rise test	Clause (11) IEC 60335 (Part 2) (Section 3): 2012
29.	Electric iron	Leakage current and electric strength at operating temperature	Clause (13) IEC 60335 (Part 2) (Section 3): 2012
30.	Electric iron	Transient over voltage	Clause (14) IEC 60335 (Part 2) (Section 3): 2012
31.	Electric iron	Moisture resistance	Clause (15) IEC 60335 (Part 2) (Section 3):2012
32.	Electric iron	Leakage current and electric strength after Humidity	Clause (16) IEC 60335 (Part 2) (Section 3): 2012
33.	Electric iron	Abnormal operation	Clause (19) IEC 60335 (Part 2) (Section 3): 2012
34.	Electric iron	Stability and mechanical hazards	Clause (20) IEC 60335 (Part 2) (Section 3): 2012

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
35.	Electric iron	Mechanical strength	Clause (21) IEC 60335 (Part 2) (Section 3):2012
36.	Electric iron	Construction	Clause (22) IEC 60335 (Part 2) (Section 3): 2012
37.	Electric iron	Internal wiring	Clause (23) IEC 60335 (Part 2) (Section 3): 2012
38.	Electric iron	Supply connection and external flexible cords	Clause (25) IEC 60335 (Part 2) (Section 3): 2012
39.	Electric iron	Terminals for external conductors	Clause (26) IEC 60335 (Part 2) (Section 3): 2012
40.	Electric iron	Provision for earthing	Clause (27) IEC 60335 (Part 2) (Section 3): 2012
41.	Electric iron	Screws and connections	Clause (28) IEC 60335 (Part 2) (Section 3): 2012
42.	Electric iron	Clearance, creepage distances and solid insulation	Clause (29) IEC 60335 (Part 2) (Section 3): 2012
43.	Electric iron	Resistance to heat and fire	Clause (30) IEC 60335 (Part 2) (Section 3): 2012
44.	Electric iron	Resistance to rusting	Clause (31) IEC 60335 (Part 2) (Section 3): 2012
45.	Electric iron	Measurement of heating-up time	Clause (10) IS 366: 1991
46.	Electric iron	Measurement of sole plate temperature	Clause (11) IS 366: 1991

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
47.	Electric iron	Measurement of temperature distribution	Clause (12) IS 366: 1991
48.	Electric iron	Measurement of over swing temperature and heating-up excess temperature	Clause (13) IS 366: 1991
49.	Electric iron	Measurement of cyclic fluctuation of temperature of hottest point	Clause (14) IS 366: 1991
50.	Electric Iron	Measurement of temperature drop under load	Clause (15) IS 366: 1991
51.	Electric iron	Measurement of thermostatic stability	Clause (16) IS 366: 1991
52.	Electric iron	Finish	Clause (17) IS 366: 1991
53.	Appliances for heating liquids	Classification and rating	Clause (6) IS 302 (Part 2) (Section 15): 2009
54.	Appliances for heating liquids	Marking and instruction	Clause (7) IS 302 (Part 2) (Section 15): 2009
55.	Appliances for heating liquids	Protection against access to live parts	Clause (8) IS 302 (Part 2) (Section 15): 2009
56.	Appliances for heating liquids	Starting of motor operated appliances	Clause (9) IS 302 (Part 2) (Section 15): 2009
57.	Appliances for heating liquids	Power input and current	Clause (10) IS 302 (Part 2) (Section 15): 2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
58.	Appliances for heating liquids	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 15): 2009
59.	Appliances for heating liquids	Leakage current and electric strength at operating temp.	Clause (13) / IS 302 (Part 2) (Section 15): 2009
60.	Appliances for heating liquids	Transient over voltage	Clause (14) / IS 302 (Part 2) (Section 15): 2009
61.	Appliances for heating liquids	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 15): 2009
62.	Appliances for heating liquids	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 15): 2009
63.	Appliances for heating liquids	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 15): 2009
64.	Appliances for heating liquids	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 15): 2009
65.	Appliances for heating liquids	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 15): 2009
66.	Appliances for heating liquids	Construction	Clause (22) IS 302 (Part 2) (Section 15): 2009
67.	Appliances for heating liquids	Internal Wiring	Clause (23) IS 302 (Part 2) (Section 15): 2009
68.	Appliances for heating liquids	Supply connection and external flexible cords	Clause (25) IS 302 (Part 2) (Section 15): 2009
69.	Appliances for heating liquids	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 15): 2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
70.	Appliances for heating liquids	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 15): 2009
71.	Appliances for heating liquids	Screw and connection	Clause (28) IS 302 (Part 2) (Section 15): 2009
72.	Appliances for heating liquids	Clearances, creepage distances and solid insulation	Clause (29) IS 302 (Part 2) (Section 15): 2009
73.	Appliances for heating liquids	Resistances to heat and fire	Clause (30) IS 302 (Part 2) (Section 15): 2009
74.	Appliances for heating liquids	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 15): 2009
75.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Classification and rating	Clause (6) IEC 60335 (Part 2) (Section 14): 2016
76.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Marking and instructions	Clause (7) IEC 60335 (Part 2) (Section 14): 2016
77.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Protection against access to live parts	Clause (8) IEC 60335 (Part 2) (Section 14): 2016

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
78.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Starting of motor-operated appliances	Clause (9) IEC 60335 (Part 2) (Section 14): 2016
79.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Power input and current	Clause (10) IEC 60335 (Part 2) (Section 14): 2016
80.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Temperature Rise Test	Clause (11) IEC 60335 (Part 2) (Section 14): 2016
81.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Leakage current and electric strength at operating temperature	Clause (13) IEC 60335 (Part 2) (Section 14): 2016
82.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Transient overvoltage	Clause (14) IEC 60335 (Part 2) (Section 14): 2016
83.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Moisture resistance	Clause (15) IEC 60335 (Part 2) (Section 14): 2016

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
84.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Leakage current and electric strength after Humidity	Clause (16) IEC 60335 (Part 2) (Section 14): 2016
85.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Abnormal operation	Clause (19) IEC 60335 (Part 2) (Section 14): 2016
86.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Stability and mechanical hazards	Clause (20) IEC 60335 (Part 2) (Section 14): 2016
87.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Mechanical strength	Clause (21) IEC 60335 (Part 2) (Section 14): 2016
88.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Construction	Clause (22) IEC 60335 (Part 2) (Section 14): 2016
89.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Internal wiring	Clause (23) IEC 60335 (Part 2) (Section 14): 2016

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
90.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Supply connection and external flexible cords	Clause (25) IEC 60335 (Part 2) (Section 14): 2016
91.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Terminals for external conductors	Clause (26) IEC 60335 (Part 2) (Section 14): 2016
92.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Provision for earthing	Clause (27) IEC 60335 (Part 2) (Section 14): 2016
93.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Screw and connection	Clause (28) IEC 60335 (Part 2) (Section 14): 2016
94.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Clearance, creepage distances and solid insulation	Clause (29) IEC 60335 (Part 2) (Section 14): 2016
95.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Resistance to heat and fire	Clause (30) IEC 60335 (Part 2) (Section 14): 2016

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
96.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Resistance to rusting	Clause (31) IEC 60335 (Part 2) (Section 14): 2016
97.	Electric Kitchen Machine	Classification and rating	Clause (6) IS 4250: 1980
98.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Marking and Instruction	Clause (7) / IS 4250: 1980
99.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Protection against access to live parts	Clause (8) IS 4250: 1980
100.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Starting of motor-operated appliances	Clause (9) IS 4250: 1980
101.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Power input and current	Clause (10) IS 4250: 1980

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
102.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Temperature rise test	Clause (11) IS 4250: 1980
103.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Operation under overload conditions of appliances with heating elements	Clause (12) IS 4250: 1980
104.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Leakage current and electric strength at operating temp.	Clause (13) IS 4250: 1980
105.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Transient overvoltage	Clause (14) IS 4250: 1980
106.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Moisture resistance	Clause (15) IS 4250: 1980
107.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Leakage current and electric strength after humidity	Clause (16) IS 4250: 1980

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
108.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Abnormal operation	Clause (19) IS 4250: 1980
109.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Stability and mechanical hazards	Clause (20) IS 4250: 1980
110.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Mechanical strength	Clause (21) IS 4250: 1980
111.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Construction	Clause (22) IS 4250: 1980
112.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Internal wiring	Clause (23) IS 4250: 1980
113.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Supply connection and external flexible cords	Clause (25) IS 4250: 1980

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
114.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Terminals for external conductors	Clause (26) IS 4250: 1980
115.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Provision for earthing	Clause (27) IS 4250: 1980
116.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Screw and connection	Clause (28) IS 4250: 1980
117.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Clearance, creepage distance and solid insulation	Clause (29) IS 4250: 1980
118.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Resistance to heat and fire	Clause (30) IS 4250: 1980
119.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Resistance to rusting	Clause (31) IS 4250: 1980

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
120.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Finish	Clause (33) IS 4250: 1980
121.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Operation tests	Clause (34) IS 4250: 1980
122.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Temperature withstand test for bowl	Clause (35) IS 4250: 1980
123.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Test for controls	Clause (36) IS 4250: 1980
124.	Household and similar electrical appliances - Safety - particular requirements for kitchen machines	Strength of assembly	Clause (37) IS 4250: 1980
125.	Appliances for insect killers	Classification and rating	Clause (6) IS 302 (Part 2) (Section 59): 1999
126.	Appliances for insect killers	Marking and instruction	Clause (7) IS 302 (Part 2) (Section 59): 1999

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# Quality And Accreditation Institute

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**Scope of Accreditation**

**National Testing Bureau**

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Ghaziabad-201003, Uttar Pradesh, India

QAI/CIA/TL/2024/0067

Valid from: 26 July 2024

\*Scope Amended w.e.f.: 25 April 2025

Valid until: 25 July 2026

**Accreditation Standard: ISO/IEC 17025:2017**

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
127.	Appliances for insect killers	Protection against access to live parts	Clause (8) IS 302 (Part 2) (Section 59): 1999
128.	Appliances for insect killers	Starting of motor-operated appliances	Clause (9) IS 302 (Part 2) (Section 59): 1999
129.	Appliances for insect killers	Power Input and current	Clause (10) IS 302 (Part 2) (Section 59): 1999
130.	Appliances for insect killers	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 59): 1999
131.	Appliances for insect killers	Leakage Current and Electric Strength at Operating temperature	Clause (13) IS 302 (Part 2) (Section 59): 1999
132.	Appliances for insect killers	Transient overvoltage	Clause (14) IS 302 (Part 2) (Section 59): 1999
133.	Appliances for insect killers	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 59): 1999
134.	Appliances for insect killers	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 59): 1999
135.	Appliances for insect killers	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 59): 1999
136.	Appliances for insect killers	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 59): 1999
137.	Appliances for insect killers	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 59): 1999

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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>Domestic Electrical Appliances</b>		
138.	Appliances for insect killers	Construction	Clause (22) IS 302 (Part 2) (Section 59): 1999
139.	Appliances for insect killers	Internal wiring	Clause (23) IS 302 (Part 2) (Section 59): 1999
140.	Appliances for insect killers	Supply connection and external flexible cords	Clause (25) IS 302 (Part 2) (Section 59): 1999
141.	Appliances for insect killers	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 59): 1999
142.	Appliances for insect killers	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 59): 1999
143.	Appliances for insect killers	Screw and connection	Clause (28) IS 302 (Part 2) (Section 59): 1999
144.	Appliances for insect killers	Clearance, creepage distances and solid insulation	Clause (29) IS 302 (Part 2) (Section 59): 1999
145.	Appliances for insect killers	Resistance to heat and fire	Clause (30) IS 302 (Part 2) (Section 59): 1999
146.	Appliances for insect killers	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 59): 1999
147.	Appliances for insect killers	Classification and rating	Clause (6) IEC 60335 (Part 2) (Section 59):2021
148.	Appliances for insect killers	Marking and instruction	Clause (7) IEC 60335 (Part 2) (Section 59):2021
149.	Appliances for insect killers	Protection against access to live parts	Clause (8) IEC 60335 (Part 2) (Section 59):2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
150.	Appliances for insect killers	Starting of motor-operated appliances	Clause (9) IEC 60335 (Part 2) (Section 59):2021
151.	Appliances for insect killers	Power Input and current	Clause (10) IEC 60335 (Part 2) (Section 59):2021
152.	Appliances for insect killers	Temperature rise test	Clause (11) IEC 60335 (Part 2) (Section 59):2021
153.	Appliances for insect killers	Leakage current and electric strength at operating temperature	Clause (13) IEC 60335 (Part 2) (Section 59):2021
154.	Appliances for insect killers	Transient overvoltage	Clause (14) IEC 60335 (Part 2) (Section 59):2021
155.	Appliances for insect killers	Moisture resistance	Clause (15) IEC 60335 (Part 2) (Section 59):2021
156.	Appliances for insect killers	Leakage current and electric strength after humidity	Clause (16) IEC 60335 (Part 2) (Section 59):2021
157.	Appliances for insect killers	Abnormal operation	Clause (19) IEC 60335 (Part 2) (Section 59):2021
158.	Appliances for insect killers	Stability and mechanical hazards	Clause (20) IEC 60335 (Part 2) (Section 59):2021
159.	Appliances for insect killers	Mechanical strength	Clause (21) IEC 60335 (Part 2) (Section 59):2021
160.	Appliances for insect killers	Construction	Clause (22) IEC 60335 (Part 2) (Section 59):2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
161.	Appliances for insect killers	Internal wiring	Clause (23) IEC 60335 (Part 2) (Section 59):2021
162.	Appliances for insect killers	Supply connection and external flexible cords	Clause (25) IEC 60335 (Part 2) (Section 59):2021
163.	Appliances for insect killers	Terminals for external conductors	Clause (26) IEC 60335 (Part 2) (Section 59):2021
164.	Appliances for insect killers	Provision for earthing	Clause (27) IEC 60335 (Part 2) (Section 59):2021
165.	Appliances for insect killers	Screw and connection	Clause (28) IEC 60335 (Part 2) (Section 59):2021
166.	Appliances for insect killers	Clearance, creepage distances and solid insulation	Clause (29) IEC 60335 (Part 2) (Section 59):2021
167.	Appliances for insect killers	Resistance to heat and fire	Clause (30) IEC 60335 (Part 2) (Section 59):2021
168.	Appliances for insect killers	Resistance to rusting	Clause (31) IEC 60335 (Part 2) (Section 59):2021
169.	Mineral filled sheathed heating elements	Classification and rating	Clause (6) IS 4159: 2021
170.	Mineral filled sheathed heating elements	Marking and instruction	Clause (7) IS 4159: 2021
171.	Mineral filled sheathed heating elements	Protection against access to live parts	Clause (8) IS 4159: 2021
172.	Mineral filled sheathed heating elements	Starting of motor-operated appliances	Clause (9) IS 4159: 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>Domestic Electrical Appliances</b>		
173.	Mineral filled sheathed heating elements	Power input & current	Clause (10) IS 4159: 2021
174.	Mineral filled sheathed heating elements	Temperature rise test	Clause (11) IS 4159: 2021
175.	Mineral filled sheathed heating elements	Operation under overload conditions of appliances with heating elements	Clause (12) IS 4159: 2021
176.	Mineral filled sheathed heating elements	Leakage current and electric strength at operating temp.	Clause (13) IS 4159: 2021
177.	Mineral filled sheathed heating elements	Transient overvoltage	Clause (14) IS 4159: 2021
178.	Mineral filled sheathed heating elements	Moisture resistance	Clause (15) IS 4159: 2021
179.	Mineral filled sheathed heating elements	Leakage current and electric strength after humidity	Clause (16) IS 4159: 2021
180.	Mineral filled sheathed heating elements	Abnormal operation	Clause (19) IS 4159: 2021
181.	Mineral filled sheathed heating elements	Stability and mechanical hazards	Clause (20) IS 4159: 2021
182.	Mineral filled sheathed heating elements	Mechanical strength	Clause (21) IS 4159: 2021
183.	Mineral filled sheathed heating elements	Construction	Clause (22) IS 4159: 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
184.	Mineral filled sheathed heating elements	Internal wiring	Clause (23) IS 4159: 2021
185.	Mineral filled sheathed heating elements	Supply connection and external flexible cords	Clause (25) IS 4159: 2021
186.	Mineral filled sheathed heating elements	Terminals for external conductors	Clause (26) IS 4159: 2021
187.	Mineral filled sheathed heating elements	Provision for earthing	Clause (27) IS 4159: 2021
188.	Mineral filled sheathed heating elements	Screw and connection	Clause (28) IS 4159: 2021
189.	Mineral filled sheathed heating elements	Clearance, creepage distances and solid insulation	Clause (29) IS 4159: 2021
190.	Mineral filled sheathed heating elements	Resistance to heat and fire	Clause (30) IS 4159: 2021
191.	Mineral filled sheathed heating elements	Resistance to rusting	Clause (31) IS 4159: 2021
192.	Mineral filled sheathed heating elements	Finish	Clause (33) IS 4159: 2021
193.	Mineral filled sheathed heating elements	Leakage and hydrostatic strength (for immersion oil heating elements)	Clause (33) IS 4159: 2021
194.	Room heaters	Classification and rating	Clause (6) IS 302 (Part 2) (Section 30): 2007

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
195.	Room heaters	Marking and instructions	Clause (7) IS 302 (Part 2) (Section 30): 2007
196.	Room heaters	Protection against access to live parts	Clause (8) IS 302 (Part 2) (Section 30): 2007
197.	Room heaters	Starting of motor-operated appliances	Clause (9) IS 302 (Part 2) (Section 30): 2007
198.	Room heaters	Power input and current	Clause (10) IS 302 (Part 2) (Section 30): 2007
199.	Room heaters	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 30): 2007
200.	Room heaters	Leakage current and electric strength at operating temp.	Clause (13) IS 302 (Part 2) (Section 30): 2007
201.	Room heaters	Transient overvoltage	Clause (14) IS 302 (Part 2) (Section 30): 2007
202.	Room heaters	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 30): 2007
203.	Room heaters	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 30): 2007
204.	Room heaters	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 30): 2007
205.	Room heaters	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 30): 2007
206.	Room heaters	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 30): 2007

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
207.	Room heaters	Construction	Clause (22) IS 302 (Part 2) (Section 30): 2007
208.	Room heaters	Internal wiring	Clause (23) IS 302 (Part 2) (Section 30): 2007
209.	Room heaters	Supply connection and external flexible cords	Clause (25) IS 302 (Part 2) (Section 30): 2007
210.	Room heaters	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 30): 2007
211.	Room heaters	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 30): 2007
212.	Room heaters	Screw and connection	Clause (28) IS 302 (Part 2) (Section 30): 2007
213.	Room heaters	Clearance, creepage distances and solid insulation	Clause (29) IS 302 (Part 2) (Section 30): 2007
214.	Room heaters	Resistance to heat and fire	Clause (30) IS 302 (Part 2) (Section 30): 2007
215.	Room heaters	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 30): 2007
216.	Room heaters	Classification and rating	Clause (6) IEC 60335 (Part 2) (Section 30): 2021
217.	Room heaters	Marking and instructions	Clause (7) IEC 60335 (Part 2) (Section 30): 2021
218.	Room heaters	Protection against access to live parts	Clause (8) IEC 60335 (Part 2) (Section 30): 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
219.	Room heaters	Starting of motor-operated appliances	Clause (9) IEC 60335 (Part 2) (Section 30): 2021
220.	Room heaters	Power input and current	Clause (10) IEC 60335 (Part 2) (Section 30): 2021
221.	Room heaters	Temperature rise test	Clause (11) IEC 60335 (Part 2) (Section 30): 2021
222.	Room heaters	Leakage current and electric strength at operating temp.	Clause (13) IEC 60335 (Part 2) (Section 30): 2021
223.	Room heaters	Transient overvoltage	Clause (14) IEC 60335 (Part 2) (Section 30): 2021
224.	Room heaters	Moisture resistance	Clause (15) IEC 60335 (Part 2) (Section 30): 2021
225.	Room heaters	Leakage current and electric strength after humidity	Clause (16) IEC 60335 (Part 2) (Section 30): 2021
226.	Room heaters	Abnormal operation	Clause (19) IEC 60335 (Part 2) (Section 30): 2021
227.	Room heaters	Stability and mechanical hazards	Clause (20) IEC 60335 (Part 2) (Section 30): 2021
228.	Room heaters	Mechanical strength	Clause (21) IEC 60335 (Part 2) (Section 30): 2021
229.	Room heaters	Construction	Clause (22) IEC 60335 (Part 2) (Section 30): 2021
230.	Room heaters	Internal wiring	Clause (23) IEC 60335 (Part 2) (Section 30): 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
231.	Room heaters	Supply connection and external flexible cords	Clause (25) IEC 60335 (Part 2) (Section 30): 2021
232.	Room heaters	Terminals for external conductors	Clause (26) IEC 60335 (Part 2) (Section 30): 2021
233.	Room heaters	Provision for earthing	Clause (27) IEC 60335 (Part 2) (Section 30): 2021
234.	Room heaters	Screw and connection	Clause (28) IEC 60335 (Part 2) (Section 30): 2021
235.	Room heaters	Clearance, creepage distances and solid insulation	Clause (29) IEC 60335 (Part 2) (Section 30): 2021
236.	Room heaters	Resistance to heat and fire	Clause (30) IEC 60335 (Part 2) (Section 30): 2021
237.	Room heaters	Resistance to rusting	Clause (31) IEC 60335 (Part 2) (Section 30): 2021
238.	Stationary storage type electric water heater	Classification and rating	Clause (6) IS 302 (Part 2) (Section 21): 2018
239.	Stationary storage type electric water heater	Marking and instructions	Clause (7) IS 302 (Part 2) (Section 21): 2018
240.	Stationary storage type electric water heater	Protection against access to live part	Clause (8) IS 302 (Part 2) (Section 21): 2018
241.	Stationary storage type electric water heater	Starting of motor operated applications	Clause (9) IS 302 (Part 2) (Section 21): 20182007
242.	Stationary storage type electric water heater	Power input and current	Clause (10) IS 302 (Part 2) (Section 21): 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
243.	Stationary storage type electric water heater	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 21): 2018
244.	Stationary storage type electric water heater	Leakage current and electric strength at operating	Clause (13) IS 302 (Part 2) (Section 21): 2018
245.	Stationary storage type electric water heater	Transient overvoltage	Clause (14) IS 302 (part 2) (Section 21): 2018
246.	Stationary storage type electric water heater	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 21): 2018
247.	Stationary storage type electric water heater	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 21): 2018
248.	Stationary storage type electric water heater	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 21): 2018
249.	Stationary storage type electric water heater	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 21): 2018
250.	Stationary storage type electric water heater	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 21): 2018
251.	Stationary storage type electric water heater	Construction	Clause (22) IS 302 (Part 2) (Section 21): 2018
252.	Stationary storage type electric water heater	Internal wiring	Clause (23) IS 302 (Part 2) (Section 21): 2018
253.	Stationary storage type electric water heater	Supply connection and flexible cords	Clause (25) IS 302 (Part 2) (Section 21): 2018
254.	Stationary storage type electric water heater	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 21): 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
255.	Stationary storage type electric water heater	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 21): 2018
256.	Stationary storage type electric water heater	Screws and connections	Clause (28) IS 302 (Part 2)(Section 21): 2018
257.	Stationary storage type electric water heater	Clearance, creepage distances tracking	Clause (29) IS 302 (Part 2) (Section 21): 2018
258.	Stationary storage type electric water heater	Resistance to heat, fire and tracking	Clause (30) IS 302 (Part 2) (Section 21): 2018
259.	Stationary storage type electric water heater	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 21): 2018
260.	Stationary storage type electric water heater	Classification and rating	Clause (6) IEC 60335 (Part 2) (Section 21): 2018
261.	Stationary storage type electric water heater	Marking and instruction	Clause (7) IEC 60335 (Part 2) (Section 21): 2018
262.	Stationary storage type electric water heater	Protection against access to live parts	Clause (8) IEC 60335 (Part 2) (Section 21): 2018
263.	Stationary storage type electric water heater	Starting of motor operated appliances	Clause (9) IEC 60335 (Part 2) (Section 21): 2018
264.	Stationary storage type electric water heater	Power input and current	Clause (10) IEC 60335 (Part 2) (Section 21): 2018
265.	Stationary storage type electric water heater	Temperature rise test	Clause (11) IEC 60335 (Part 2) (Section 21): 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Domestic Electrical Appliances</b>			
266.	Stationary storage type electric water heater	Leakage current and electric strength at operating temperature	Clause (13) IEC 60335 (Part 2) (Section 21): 2018
267.	Stationary storage type electric water heater	Transient over voltages	Clause (14) IEC 60335 (Part 2) (Section 21): 2018
268.	Stationary storage type electric water heater	Moisture resistance	Clause (15) IEC 60335 (Part 2) (Section 21): 2018
269.	Stationary storage type electric water heater	Leakage current and electric strength after humidity	Clause (16) IEC 60335 (Part 2) (Section 21): 2018
270.	Stationary storage type electric water heater	Abnormal operations	Clause (19) IEC 60335 (Part 2) (Section 21): 2018
271.	Stationary storage type electric water heater	Stability and mechanical hazards	Clause (20) IEC 60335 (Part 2) (Section 21): 2018
272.	Stationary storage type electric water heater	Mechanical strength	Clause (21) IEC 60335 (Part 2) (Section 21): 2018
273.	Stationary storage type electric water heater	Construction	Clause (22) IEC 60335 (Part 2) (Section 21): 2018
274.	Stationary storage type electric water heater	Internal wiring	Clause (23) IEC 60335 (Part 2) (Section 21): 2018
275.	Stationary storage type electric water heater	Supply connection and external flexible cords	Clause (25) IEC 60335 (Part 2) (Section 21): 2018
276.	Stationary storage type electric water heater	Terminals for external conductors	Clause (26) IEC 60335 (Part 2) (Section 21): 2018

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# Quality And Accreditation Institute

## Centre for International Accreditation

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**Scope of Accreditation**

**National Testing Bureau**

Khasra No. 883, Opp. Gali No. 9, Mamraj Nagar, Sihani Road,  
Ghaziabad-201003, Uttar Pradesh, India

QAI/CIA/TL/2024/0067

Valid from: 26 July 2024

\*Scope Amended w.e.f.: 25 April 2025

Valid until: 25 July 2026

**Accreditation Standard: ISO/IEC 17025:2017**

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
277.	Stationary storage type electric water heater	Provision for earthing	Clause (27) IEC 60335 (Part 2) (Section 21): 2018
278.	Stationary storage type electric water heater	Screws and connections	Clause (28) IEC 60335 (Part 2) (Section 21): 2018
279.	Stationary storage type electric water heater	Clearance, creepage distances and solid insulation	Clause (29) IEC 60335 (Part 2) (Section 21): 2018
280.	Stationary storage type electric water heater	Resistance to heat and fire	Clause (30) IEC 60335 (Part 2) (Section 21): 2018
281.	Stationary storage type electric water heater	Resistance to rusting	Clause (31) IEC 60335 (Part 2) (Section 21): 2018
282.	Stationary storage type electric water heater	Verification of the rated capacity	Clause (14) IS 2082: 2018
283.	Stationary storage type electric water heater	Standing loss per 24 hours	Clause (15) IS 2082: 2018
284.	Stationary storage type electric water heater	Hot water output	Clause (16) IS 2082: 2018
285.	Stationary storage type electric water heater	Reheating time	Clause (17) IS 2082: 2018
286.	Stationary storage type electric water heater	Mixing factor	Clause (18) IS 2082: 2018
287.	Stationary storage type electric water heater	Deviation from dial calibration	Clause (19) IS 2082: 2018
288.	Stationary storage type electric water heater	Cyclic temperature variation	Clause (20) IS 2082: 2018

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
289.	Stationary storage type electric water heater	Finish	Clause (21) IS 2082: 2018
290.	Electric instantaneous water heaters	Classification and rating	Clause (6) IS 302 (Part 2) (Section 35):2017
291.	Electric instantaneous water heaters	Marking and instructions	Clause (7) IS 302 (Part 2) (Section 35):2017
292.	Electric instantaneous water heaters	Protection against access to live part	Clause (8) IS 302 (Part 2) (Section 35):2017
293.	Electric instantaneous water heaters	Starting of motor operated appliances	Clause (9) IS 302 (Part 2) (Section 35):2017
294.	Electric instantaneous water heaters	Power input and current	Clause (10) IS 302 (Part 2) (Section 35):2017
295.	Electric instantaneous water heaters	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 35):2017
296.	Electric instantaneous water heaters	Leakage current and electric strength at operating temperature	Clause (13) IS 302 (Part 2) (Section 35):2017
297.	Electric instantaneous water heaters	Transient over voltage	Clause (14) IS 302 (Part 2) (Section 35):2017
298.	Electric instantaneous water heaters	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 35):2017
299.	Electric instantaneous water heaters	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 35):2017

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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>Domestic Electrical Appliances</b>		
300.	Electric instantaneous water heaters	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 35):2017
301.	Electric instantaneous water heaters	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 35):2017
302.	Electric instantaneous water heaters	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 35):2017
303.	Electric instantaneous water heaters	Construction	Clause (22) IS 302 (Part 2) (Section 35):2017
304.	Electric instantaneous water heaters	Internal wiring	Clause (23) IS 302 (Part 2) (Section 35):2017
305.	Electric instantaneous water heaters	Supply connection and flexible cords	Clause (25) IS 302 (Part 2) (Section 35):2017
306.	Electric instantaneous water heaters	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 35):2017
307.	Electric instantaneous water heaters	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 35):2017
308.	Electric instantaneous water heaters	Screws and connections	Clause (28) IS 302 (Part 2) (Section 35):2017
309.	Electric instantaneous water heaters	Clearance, creepage distances tracking	Clause (29) IS 302 (Part 2) (Section 35):2017
310.	Electric instantaneous water heaters	Resistance to heat and fire	Clause (30) IS 302 (Part 2) (Section 35):2017
311.	Electric instantaneous water heaters	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 35):2017

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# Quality And Accreditation Institute

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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>Domestic Electrical Appliances</b>		
312.	Electric immersion water heaters	Classification and rating	Clause (6) IS 302 (Part 2) (Section 201): 2008
313.	Electric immersion water heaters	Marking and instructions	Clause (7) IS 302 (Part 2) (Section 201): 2008
314.	Electric immersion water heaters	Protection against access to live part	Clause (8) IS 302 (Part 2) (Section 201): 2008
315.	Electric immersion water heaters	Starting of motor operated applications	Clause (9) IS 302 (Part 2) (Section 201): 2008
316.	Electric immersion water heaters	Power input and current	Clause (10) IS 302 (Part 2) (Section 201): 2008
317.	Electric immersion water heaters	Temperature rise test	Clause (11) IS 302 (Part 2) (Section 201): 2008
318.	Electric immersion water heaters	Leakage current and electric strength at operating temperature	Clause (13) IS 302 (Part 2) (Section 201): 2008
319.	Electric immersion water heaters	Transient over voltage	Clause (14) IS 302 (Part 2) (Section 201): 2008
320.	Electric immersion water heaters	Moisture resistance	Clause (15) IS 302 (Part 2) (Section 201): 2008
321.	Electric immersion water heaters	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 2) (Section 201): 2008
322.	Electric immersion water heaters	Abnormal operation	Clause (19) IS 302 (Part 2) (Section 201): 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
323.	Electric immersion water heaters	Stability and mechanical hazards	Clause (20) IS 302 (Part 2) (Section 201): 2008
324.	Electric immersion water heaters	Mechanical strength	Clause (21) IS 302 (Part 2) (Section 201): 2008
325.	Electric immersion water heaters	Construction	Clause (22) IS 302 (Part 2) (Section 201): 2008
326.	Electric immersion water heaters	Internal wiring	Clause (23) IS 302 (Part 2) (Section 201): 2008
327.	Electric immersion water heaters	Supply connection and flexible cords	Clause (25) IS 302 (Part 2) (Section 201): 2008
328.	Electric immersion water heaters	Terminals for external conductors	Clause (26) IS 302 (Part 2) (Section 201): 2008
329.	Electric immersion water heaters	Provision for earthing	Clause (27) IS 302 (Part 2) (Section 201): 2008
330.	Electric immersion water heaters	Screws and connections	Clause (28) IS 302 (Part 2) (Section 201): 2008
331.	Electric immersion water heaters	Clearance, creepage distances tracking	Clause (29) IS 302 (Part 2) (Section 201): 2008
332.	Electric immersion water heaters	Resistance to heat and fire	Clause (30) IS 302 (Part 2) (Section 201): 2008
333.	Electric immersion water heaters	Resistance to rusting	Clause (31) IS 302 (Part 2) (Section 201): 2008
334.	Electric immersion water heaters	Classification and rating	Clause (6) IS 368: 2014

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
335.	Electric immersion water heaters	Marking and instruction	Clause (7) IS 368: 2014
336.	Electric immersion water heaters	Protection against access to live parts	Clause (8) IS 368: 2014
337.	Electric immersion water heaters	Starting of motor-operated appliances	Clause (9) IS 368: 2014
338.	Electric immersion water heaters	Power input and current	Clause (10) IS 368: 2014
339.	Electric immersion water heaters	Temperature rise test	Clause (11) IS 368: 2014
340.	Electric immersion water heaters	Leakage current and electric strength at operating temperature	Clause (13) IS 368: 2014
341.	Electric immersion water heaters	Transient overvoltage	Clause (14) IS 368: 2014
342.	Electric immersion water heaters	Moisture resistance	Clause (15) IS 368: 2014
343.	Electric immersion water heaters	Leakage current and electric strength after humidity	Clause (16) IS 368: 2014
344.	Electric immersion water heaters	Abnormal operation	Clause (19) IS 368: 2014
345.	Electric immersion water heaters	Stability and mechanical hazards	Clause (20) IS 368: 2014

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
346.	Electric immersion water heaters	Mechanical strength	Clause (21) IS 368: 2014
347.	Electric immersion water heaters	Construction	Clause (22) IS 368: 2014
348.	Electric immersion water heaters	Internal wiring	Clause (23) IS 368: 2014
349.	Electric immersion water heaters	Supply connection and external flexible cords	Clause (25) IS 368: 2014
350.	Electric immersion water heaters	Terminals for external conductors	Clause (26) IS 368: 2014
351.	Electric immersion water heaters	Provision for earthing	Clause (27) IS 368: 2014
352.	Electric immersion water heaters	Screw and connection	Clause (28) IS 368: 2014
353.	Electric immersion water heaters	Clearances, creepage distances and solid insulation	Clause (29) IS 368: 2014
354.	Electric immersion water heaters	Resistance to heat and fire	Clause (30) IS 368: 2014
355.	Electric immersion water heaters	Resistance to rusting	Clause (31) IS 368: 2014
356.	Safety of household and similar electrical appliances	Classification and rating	Clause (6) IS 302 (Part 1): 2008
357.	Safety of household and similar electrical appliances	Marking and instructions	Clause (7) IS 302 (Part 1): 2008

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# Quality And Accreditation Institute

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*Scope of Accreditation*

*National Testing Bureau*

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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>Domestic Electrical Appliances</b>		
358.	Safety of household and similar electrical appliances	Protection against access to live part	Clause (8) IS 302 (Part 1): 2008
359.	Safety of household and similar electrical appliances	Starting of motor operated appliances	Clause (9) IS 302 (Part 1): 2008
360.	Safety of household and similar electrical appliances	Power input and current	Clause (10) IS 302 (Part 1): 2008
361.	Safety of household and similar electrical appliances	Temperature rise test	Clause (11) IS 302 (Part 1): 2008
362.	Safety of household and similar electrical appliances	Operation under overload conditions of appliances with heating elements	Clause (12) IS 302 (Part 1): 2008
363.	Safety of household and similar electrical appliances	Leakage current and electric strength at operating temperature	Clause (13) IS 302 (Part 1): 2008
364.	Safety of household and similar electrical appliances	Transient over voltage	Clause (14) IS 302 (Part 1): 2008
365.	Safety of household and similar electrical appliances	Moisture resistance	Clause (15) IS 302 (Part 1): 2008
366.	Safety of household and similar electrical appliances	Leakage current and electric strength after humidity	Clause (16) IS 302 (Part 1): 2008
367.	Safety of household and similar electrical appliances	Abnormal operation	Clause (19) IS 302 (Part 1): 2008
368.	Safety of household and similar electrical appliances	Stability and mechanical hazards	Clause (20) IS 302 (Part 1): 2008

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
369.	Safety of household and similar electrical appliances	Mechanical strength	Clause (21) IS 302 (Part 1): 2008
370.	Safety of household and similar electrical appliances	Construction	Clause (22) IS 302 (Part 1): 2008
371.	Safety of household and similar electrical appliances	Internal wiring	Clause (23) IS 302 (Part 1): 2008
372.	Safety of household and similar electrical appliances	Supply connection and external flexible cords	Clause (25) IS 302 (Part 1): 2008
373.	Safety of household and similar electrical appliances	Terminals for external conductors	Clause (26) IS 302 (Part 1): 2008
374.	Safety of household and similar electrical appliances	Provision for earthing	Clause (27) IS 302 (Part 1): 2008
375.	Safety of household and similar electrical appliances	Screw and connections	Clause (28) IS 302 (Part 1): 2008
376.	Safety of household and similar electrical appliances	Clearance, creepage distances and solid insulation	Clause (29) IS 302 (Part 1): 2008
377.	Safety of household and similar electrical appliances	Resistance to heat and fire	Clause (30) IS 302 (Part 1): 2008
378.	Safety of household and similar electrical appliances	Resistance to rusting	Clause (31) IS 302 (Part 1): 2008
379.	Safety of household and similar electrical appliances	Finish	Clause (33) IS 302 (Part 1): 2008
380.	Safety of household and similar electrical appliances	Classification and rating	Clause (6) IEC 60335 (Part 1): 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
381.	Safety of household and similar electrical appliances	Marking and instruction	Clause (7) IEC 60335 (Part 1): 2020
382.	Safety of household and similar electrical appliances	Protection against access to live parts	Clause (8) IEC 60335 (Part 1): 2020
383.	Safety of household and similar electrical appliances	Starting of motor operated appliances	Clause (9) IEC 60335 (Part 1): 2020
384.	Safety of household and similar electrical appliances	Power input and current	Clause (10) IEC 60335 (Part 1): 2020
385.	Safety of household and similar electrical appliances	Temperature rise test	Clause (11) IEC 60335 (Part 1): 2020
386.	Safety of household and similar electrical appliances	Operation under overload conditions of appliances with heating elements	Clause (12) IEC 60335 (Part 1): 2020
387.	Safety of household and similar electrical appliances	Leakage current and electric strength at operating temperature	Clause (13) IEC 60335 (Part 1): 2020
388.	Safety of household and similar electrical appliances	Transient overvoltage	Clause (14) IEC 60335 (Part 1): 2020
389.	Safety of household and similar electrical appliances	Moisture resistance	Clause (15) IEC 60335 (Part 1): 2020
390.	Safety of household and similar electrical appliances	Leakage current and electric strength after humidity	Clause (16) IEC 60335 (Part 1): 2020
391.	Safety of household and similar electrical appliances	Abnormal operation	Clause (19) IEC 60335 (Part 1): 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
392.	Safety of household and similar electrical appliances	Stability and mechanical hazards	Clause (20) IEC 60335 (Part 1): 2020
393.	Safety of household and similar electrical appliances	Mechanical strength	Clause (21) IEC 60335 (Part 1): 2020
394.	Safety of household and similar electrical appliances	Construction	Clause (22) IEC 60335 (Part 1): 2020
395.	Safety of household and similar electrical appliances	Internal wiring	Clause (23) IEC 60335 (Part 1): 2020
396.	Safety of household and similar electrical appliances	Supply connection and external flexible cords	Clause (25) IEC 60335 (Part 1): 2020
397.	Safety of household and similar electrical appliances	Terminals for external conductors	Clause (26) IEC 60335 (Part 1): 2020
398.	Safety of household and similar electrical appliances	Provision for earthing	Clause (27) IEC 60335 (Part 1): 2020
399.	Safety of household and similar electrical appliances	Screw and connections	Clause (28) IEC 60335 (Part 1): 2020
400.	Safety of household and similar electrical appliances	Clearance, creepage distances and solid insulation	Clause (29) IEC 60335 (Part 1): 2020
401.	Safety of household and similar electrical appliances	Resistance to heat and fire	Clause (30) IEC 60335 (Part 1): 2020
402.	Safety of household and similar electrical appliances	Resistance to rusting	Clause (31) IEC 60335 (Part 1): 2020
403.	Safety of household and similar electrical appliances	Finish	Clause (33) IEC 60335 (Part 1): 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metal and Alloys</b>		
1.	Aluminium Alloys	Chromium	IS 504 : Part 8 : 2012
2.	Aluminium Alloys	Copper	IS 504 : Part 3: 2012
3.	Aluminium Alloys	Iron	IS 504 : Part 2 : 2012
4.	Aluminium Alloys	Lead	IS 504 : Part 1 : 2012
5.	Aluminium Alloys	Magnesium	IS 504 : Part 6 : 2002
6.	Aluminium Alloys	Manganese	IS 504 : Part 5: 2012
7.	Aluminium Alloys	Nickel	IS 504 : Part 7 : 2012
8.	Aluminium Alloys	Silicon	IS 504 : Part 1 to 12: 2002
9.	Aluminium Alloys	Zinc	IS 504 : Part 4 : 2012
10.	Low Carbon Steel	Carbon	IS 228(Part-1): 1987
11.	Low Carbon Steel	Chromium	IS 228(Part-6): 1987
12.	Low Carbon Steel	Copper	IS 228(Part-15): 1992
13.	Low Carbon Steel	Manganese	IS 228(Part-12): 2001
14.	Low Carbon Steel	Molybdenum	IS 228(Part-7): 1990
15.	Low Carbon Steel	Nickel	IS 228(Part-5): 1987
16.	Low Carbon Steel	Nitrogen	IS 228(Part-19): 1988
17.	Low Carbon Steel	Phosphorus	IS 228(Part-3: 1987)
18.	Low Carbon Steel	Silicon	IS 228(Part-8): 1989
19.	Low Carbon Steel	Sulphur	IS 228(Part-9): 1989
20.	Copper Alloys	Bi	IS 440: 1964

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metal and Alloys</b>		
21.	Copper Alloys	Copper	IS 3685: 1966 & IS 440: 1964
22.	Copper Alloys	Lead	IS 3685: 1966
23.	Copper Alloys	O	IS 440: 1964
24.	Copper Alloys	Tin	IS 3685: 1966
25.	Copper Alloys	Zinc	IS 3685: 1966
26.	Stainless Steel	Carbon	IS 228(Part-1): 1987
27.	Stainless Steel	Chromium	IS 228(Part-6): 1987
28.	Stainless Steel	Copper	IS 228(Part-15): 1992
29.	Stainless Steel	Manganese	IS 228(Part-12): 2001
30.	Stainless Steel	Molybdenum	IS 228(Part-7): 1990
31.	Stainless Steel	Nickel	IS 228(Part-5): 1987
32.	Stainless Steel	Nitrogen	IS 228(Part-19): 1988
33.	Stainless Steel	Phosphorus	IS 228(Part-3): 1987
34.	Stainless Steel	Silicon	IS 228(Part-8): 1989
35.	Stainless Steel	Sulphur	IS 228(Part-9): 1989

**\*Note:**

**Scope Extension with respect to the verification assessment:**

Following scope of accreditation is extended w.e.f. 25 April 2025:

Chemical Testing- • **Metal and Alloys** (Page no. 40-41; Sl. No.- 1 to 35)

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