

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Alaipuria Test House Private Limited

Plot No. H-11, Durga Industrial Park, Sahibabad,
Ghaziabad-201005, 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/2024/0063

Valid from: 02 July 2024

Valid until: 01 July 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment		
1.	Aluminium alloy strand conductor	Breaking load	Cl. 12.2 of IS 398 (Part 4):1994
2.	Aluminium alloy strand conductor	Calculated breaking load of conductor	Annex B (B-3) of IS 398 (Part 4):1994
3.	Aluminium alloy strand conductor	Elongation	Cl. 12.3 of IS 398 (Part 4):1994
4.	Aluminium alloy strand conductor	Resistance	Cl. 12.4 of IS 398 (Part 4):1994
5.	Aluminium alloy strand conductor	Measurement of lay ratio	Cl. 9.2 of IS 398 (Part 4):1994
6.	Aluminium conductor for overhead transmission	Breaking load test of individual aluminium wires	Cl. 12.3 of IS 398 (Part 1):1996
7.	Aluminium conductor for overhead transmission	Measurement of diameter of aluminium wire	Cl. 12.2 of IS 398 (Part 1):1996
8.	Aluminium conductor for overhead transmission	Measurement of lay ratio	Cl. 12.6 of IS 398 (Part 1):1996
9.	Aluminium conductor for overhead transmission	Resistance test of aluminium wire	Cl. 12.5 of IS 398 (Part 1):1996
10.	Aluminium conductor for overhead transmission	Wrapping test of aluminium wire	Cl. 12.4 of IS 398 (Part 1):1996
11.	Aluminium conductor for overhead transmission purpose aluminium	Breaking load of individual wires	Cl. 13.3.1 of IS 398 (Part 2):1996

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment		
	conductors and galvanized steel- reinforced		
12.	Aluminium conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Ductility test (Elongation %)	Cl. 13.4.2 of IS 398 (Part 2):1996
13.	Aluminium conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Galvanizing test	Cl. 13.7 of IS 398 (Part 2):1996
14.	Aluminium conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Measurement of diameter of individual aluminium and steel wire	Cl. 13.2 of IS 398 (Part 2):1996
15.	Aluminium conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Measurement of lay ratio	Cl. 13.8 of IS 398 (Part 2):1996
16.	Aluminium conductor for overhead transmission	Resistance test	Cl. 13.6 of IS 398 (Part 2):1996

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment		
	purpose aluminium conductors and galvanized steel- reinforced		
17.	Aluminium conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Ductility test (Torsion test)	Cl. 13.4.1 of IS 398 (Part 2):1996
18.	Aluminium conductor for overhead transmission purpose aluminium conductors and galvanized steel- reinforced	Wrapping test	Cl. 13.5 of IS 398 (Part 2):1996
19.	Aluminium conductors, galvanized steel reinforced	Visual examination	Cl. 13.2 of IS 398 (Part 5): 1992
20.	Aluminium conductors, galvanized steel reinforced	Measurement of diameters of individual aluminium and steel wires	Cl. 13.3 of IS 398 (Part 5): 1992
21.	Aluminium conductors, galvanized steel reinforced	Measurement of lay ratio of each layer	Cl. 13.4 of IS 398 (Part 5): 1992
22.	Aluminium conductors, galvanized steel reinforced	Breaking load test	Cl. 13.5 of IS 398 (Part 5): 1992
23.	Aluminium conductors, galvanized steel reinforced	Ductility test	Cl. 13.6 of IS 398 (Part 5): 1992

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission Line Equipment		
24.	Aluminium conductors, galvanized steel reinforced	Wrapping test	Cl. 13.7 of IS 398 (Part 5): 1992
25.	Aluminium conductors, galvanized steel reinforced	Resistance test	Cl. 13.8 of IS 398 (Part 5): 1992
26.	Aluminium conductors, galvanized steel reinforced	Galvanizing test	Cl. 13.9 of IS 398 (Part 5): 1992
27.	High conductivity aluminium alloy stranded conductors	Visual examination	Cl. 16.2 of IS 398 (Part 6): 2021
28.	High conductivity aluminium alloy stranded conductors	Measurement of lay ratio / direction of lay	Cl. 16.3 of IS 398 (Part 6): 2021
29.	High conductivity aluminium alloy stranded conductors	Measurement of diameters of individual aluminium alloy wires	Cl. 16.4 of IS 398 (Part 6): 2021
30.	High conductivity aluminium alloy stranded conductors	Breaking load test	Cl. 16.5 of IS 398 (Part 6): 2021
31.	High conductivity aluminium alloy stranded conductors	Elongation test	Cl. 16.6 of IS 398 (Part 6): 2021
32.	High conductivity aluminium alloy stranded conductors	Resistivity test	Cl. 16.7 of IS 398 (Part 6): 2021
33.	High conductivity aluminium alloy stranded conductors	Wrapping test	Cl. 16.8 of IS 398 (Part 6): 2021
34.	High conductivity aluminium alloy stranded conductors	D.C. resistance test on stranded conductor	Cl. 16.10 of IS 398 (Part 6): 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
1.	Aerial bunched cables for working voltages upto and including 1100V	Environmental stress cracking	Cl. 5.1, Cl. 10.1 & Table-2 of IS 14255:1995, IS:10810 (Part 29) - 1984
2.	Aerial bunched cables for working voltages upto and including 1100V	Ageing in air oven on insulation	Cl. 5.1, Cl. 10.1 & Table-1 of IS 14255:1995, IS:10810 (Part 11) - 1984
3.	Aerial bunched cables for working voltages upto and including 1100V	Carbon black content & dispersion	Cl. 5.1, Cl. 10.1, Table-1 & Table-2 of IS 14255:1995, IS:10810 (Part 32) - 1984
4.	Aerial bunched cables for working voltages upto and including 1100V	Hot set test	Cl. 5.1, Cl. 10.1, Table 1 of IS 14255:1995, IS:10810 (Part 30) - 1984
5.	Aerial bunched cables for working voltages upto and including 1100V	Melt flow index	Cl. 5.1, Cl. 10.1, Table 2 of IS 14255:1995, IS:10810 (Part 23) - 1984
6.	Aerial bunched cables for working voltages upto and including 1100V	Shrinkage test on insulation	Cl. 5.1, Cl. 10.1, Table 1 of IS 14255:1995, IS:10810 (Part 12) - 1984
7.	Aerial bunched cables for working voltages upto and including 1100V	Tensile strength & elongation at break on insulation	Cl. 5.1, Cl. 10.1, Table 1 & Table 2 of IS 14255:1995, IS:10810 (Part 7) - 1984
8.	Aerial bunched cables for working voltages upto and including 1100V	Vicat softening point	Cl. 5.1, Cl. 10.1, Table 2 of IS 14255:1995, IS:10810 (Part 22) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
9.	Aerial bunched cables for working voltages upto and including 1100V	Insulation resistance (volume resistivity) test	Cl. 5.1, Cl. 10.1, Table 1 & Table 2 of IS 14255:1995, IS:10810 (Part 43) - 1984
10.	Aerial bunched cables for working voltages upto and including 1100V	Water absorption (gravimetric)	Cl. 5.1, Cl. 10.1, Table 1 of IS 14255: 1995, IS:10810 (Part 33) - 1984
11.	Aerial bunched cables for working voltages upto and including 1100V	Breaking load on messenger conductor	Cl. 6.5, Cl. 10.1, Table-3 of IS 14255: 1995, IS:10810 (Part 2) - 1984
12.	Aerial bunched cables for working voltages upto and including 1100V	Conductor resistance test / resistance of conductors	Cl. 10.1 of IS 14255:1995, IS:10810 (Part 5) - 1984
13.	Aerial bunched cables for working voltages upto and including 1100V	Elongation test on messenger conductor	Cl. 10.1, Cl. 11.3 of IS 14255:1995
14.	Aerial bunched cables for working voltages upto and including 1100V	High voltage test at room temperature	Cl. 10.1, Cl. 11.2 of IS 14255:1995, IS:10810 (Part 45) – 1984
15.	Aerial bunched cables for working voltages upto and including 1100V	Resistance test on phase/messenger/street light conductor	Cl. 10.1 of IS 14255:1995, IS:10810 (Part 5) – 1984
16.	Aerial bunched cables for working voltages upto and including 1100V	Tensile test on phase/street light conductor	Cl. 10.1 of IS 14255:1995, IS:10810 (Part 2) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
17.	Aerial bunched cables for working voltages upto and including 1100V	Wrapping test	Cl. 10.1 of IS 14255:1995, IS:10810 (Part 3) - 1984
18.	Aerial bunched cables for working voltages upto and including 1100V	Thickness of insulation	Cl. 10.1, Table 4 of IS 14255:1995, IS:10810 (Part 6) - 1984
19.	Aerial bunched cables for working voltages upto and including 1100V	Bending test on complete cable	Cl. 11.4 of IS 14255:1995
20.	Conductors for insulated electric cables and flexible cords	Annealing test (for copper)	IS 8130: 2013
21.	Conductors for insulated electric cables and flexible cords	Conductor resistance test / resistance of conductors	IS 8130: 2013
22.	Conductors for insulated electric cables and flexible cords	Persulphate test (for tinned copper conductor cable only)	IS 8130: 2013
23.	Conductors for insulated electric cables and flexible cords	Tensile test (for aluminium)	IS 8130: 2013
24.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Armoured coverage percentage	Cl. 13.1.2, Appendix C of IS:7098 (PART 1) - 1988

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
25.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Annealing test (for copper)	Cl. 15.1 (a) (i) of IS:7098 (Part 1) – 1988, IS:10810 (Part 1) - 1984
26.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Tensile test (for aluminium)	Cl. 15.1 (a) (ii) of IS:7098 (Part 1) – 1988, IS:10810 (Part 2) - 1984
27.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Wrapping test (for aluminium)	Cl. 15.1 (a) (iii) of IS:7098 (Part 1) – 1988, IS:10810 (Part 3) - 1984
28.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Conductor resistance test / resistance of conductors	Cl. 15.1 (a) (iv) of IS:7098 (Part 1) – 1988, IS:10810 (Part 5) - 1984
29.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Dimensions of armouring material	Cl. 15.1 (b) (1) Cl. 13.3 of IS:7098 (Part 1)-1988, IS:10810 (Part 36) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
30.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Tensile strength for armouring material	Cl. 15.1 (b) (2 - i), Cl. 13.6 (a) of IS:7098 (PART 1) – 1988, IS:10810 (Part 37) - 1984
31.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Elongation at break for armouring material	Cl. 15.1 (b) (2 - ii), Cl. 13.6 (b) of IS:7098 (PART 1) – 1988, IS:10810 (Part 37) - 1984
32.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Torsion test for round wire	Cl. 15.1 (b) (2 - iii), Cl. 13.6 (c) of IS:7098 (PART 1) – 1988, IS:10810 (Part 38) - 1984
33.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Winding test for formed wire	Cl. 15.1 (b) (2 - iv), Cl. 13.6 (d) of IS:7098 (PART 1) – 1988, IS:10810 (Part 39) - 1984
34.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Uniformity of zinc coating	Cl. 15.1 (b) (2 - v), Cl. 13.6 (e) of IS:7098 (PART 1) – 1988, IS:10810 (Part 40) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
35.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Mass of zinc coating	Cl. 15.1 (b) (2 - vi), Cl. 13.6 (f) of IS:7098 (PART 1) – 1988, IS:10810 (Part 41) - 1984
36.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Resistivity test	Cl. 15.1 (b) (2 - vii), Cl. 13.6 (g) of IS:7098 (PART 1) – 1988, IS:10810 (Part 42) - 1984
37.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Thickness of insulation & sheath	Cl. 15.1 (c) of IS:7098 (Part 1) – 1988, IS:10810 (Part 6) - 1984
38.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Tensile strength & elongation at break on insulation & sheath	Cl. 15.1 (d) (i) & (e) (i), Table 1 of IS:7098 (Part 1) – 1988, IS:10810 (Part 7) - 1984
39.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Ageing in air oven on insulation & sheath	Cl. 15.1 (d) (ii) & (e) (ii), Table 1 of IS:7098 (Part 1) – 1988, IS:10810 (Part 11) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
40.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Hot set test	Cl. 15.1 (d) (iii), Table 1 of IS:7098 (Part 1) – 1988, IS:10810 (Part 30) - 1984
41.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Shrinkage test on insulation & sheath	Cl. 15.1 (d) (iv) & (e) (iv), Table 1 of IS:7098 (Part 1) – 1988, IS:10810 (Part 12) - 1984
42.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Water absorption (gravimetric)	Cl. 15.1 (d) (v), Table 1 of IS:7098 (Part 1) – 1988, IS:10810 (Part 33) - 1984
43.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Loss of mass in air oven	Cl. 15.1 (e) (iii) of IS:7098 (Part 1) – 1988, IS:10810 (Part 10) - 1984
44.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Hot deformation test on sheath	Cl. 15.1 (e) (v) of IS:7098 (Part 1) – 1988, IS:10810 (Part 15) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
45.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Heat shock test on sheath	Cl. 15.1 (e) (vi) of IS:7098 (Part 1) – 1988, IS:10810 (Part 14) - 1984
46.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Thermal stability test on sheath	Cl. 15.1 (e) (vii) of IS:7098 (Part 1) – 1988, IS:10810 (Part 60) - 1988
47.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Volume resistivity	Cl. 15.1 (f), Table 1 of IS:7098 (Part 1) – 1988, IS:10810 (Part 43) - 1984
48.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Cold bend test	Cl. 15.4 (a) of IS:7098 (Part 1) – 1988, IS:10810 (Part 20) - 1984
49.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Cold impact test	Cl. 15.4 (b) of IS:7098 (Part 1) – 1988, IS:10810 (Part 21) - 1984

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
50.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	High voltage test at room temperature	Cl. 16.2 of IS:7098 (Part 1)-1988, IS:10810 (Part 45) - 1984
51.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Flammability test / flame propagation on single cable	Cl. 16.3 of IS:7098 (Part 1) – 1988, IS:10810 (Part 53) – 1984, IEC/BS EN 60332-1-2
52.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Oxygen index test	Cl. 16.9 of IS:7098 (Part 1)-1988, IS:10810 (Part 58) – 1998, ASTM D2863-19
53.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Flame retardance test on single cables	Cl. 16.10 of IS:7098 (PART 1) – 1988, IS:10810 (Part 61) - 1988
54.	Cross linked polyethylene insulated thermoplastic sheathed cables for working	Flame retardance test on bunched cables	Cl. 16.11 of IS:7098 (PART 1) – 1988, IS:10810 (Part 62) – 1993, IEC 60332-3-21 to 25

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
55.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Determination of the halogen acid gas content	Cl. 16.13 of IS:7098 (Part 1)-1988, IS:10810 (Part 59) – 1988, IEC 60754-1:2011
56.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Measurement of temperature index	Cl. 16.14 of IS:7098 (Part 1)-1988, IS:10810 (Part 64) - 2003
57.	Cross linked polyethylene insulated thermoplastic sheathed cables for working voltages upto and including 1100V	Smoke density rating	Cl. 16.15 of IS:7098 (Part 1)-1988, IS:10810 (Part 63) – 1993, IEC 61034-2:2005
58.	Electric or optical fibre cables	Flame retardance test on bunched cables	IEC 60332-3-21: 2018
59.	Electric or optical fibre cables	Flame retardance test on bunched cables	IEC 60332-3-22: 2018
60.	Electric or optical fibre cables	Flame retardance test on bunched cables	IEC 60332-3-23: 2018
61.	Electric or optical fibre cables	Flame retardance test on bunched cables	IEC 60332-3-24: 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
62.	Electric or optical fibre cables	Flame retardance test on bunched cables	IEC 60332-3-25: 2018
63.	Electric or optical fibre cables	Flame spread test on single cable	IEC 60332-1-2: 2011 / BS EN 60332-1-2: 2004
64.	Fire retardant low smoke zero halogen cables	Measurement of smoke density of electrical cables under fire conditions	IEC/BS EN 61034-2: 2005
65.	Halogenated polymers and compounds from electric or optical fibre cable	Determination of the halogen acid gas content	IEC 60754-1: 2011
66.	Insulation and sheath of electric cables	Oxygen / Temp index test	ASTM D2863-17a: 2017
67.	Low carbon galvanized steel wires, formed wires and tapes	Mass of zinc coating	IS 4826 :1979 RA: 2016
68.	Metallic materials	Tensile strength & elongation	IS 1608 (Part 1) & (Part 3): 2018
69.	Metallic materials	Wrapping test	IS 1755: 2018
70.	Plastics and plastic material	Smoke density rating	ASTM D2843-16: 2016
71.	Plastics and plastic materials	Smoke density rating	IS 13360 (Part 6/Sec 9)-2001: 2016
72.	PVC insulation and sheath of electric cables	Volume resistivity	Cl. 4.1, Table 1 of IS 5831:1984 RA: 2021
73.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Ovality	Cl. 9.1, Table 1 of IS 694:2010



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
74.	Polyvinyl chloride insulated unsheathed and sheathed cables/ cords	High voltage test (water immersion)	Cl. 10.1, Table 1 of IS 694:2010, IS:10810 (Part 45) - 1984
75.	Polyvinyl chloride insulated unsheathed and sheathed cables/ cords	High voltage test at room temperature	Cl. 10.2, Table 1 of IS 694:2010, IS:10810 (Part 45) - 1984
76.	Polyvinyl chloride insulated unsheathed and sheathed cables/ cords	Flammability test	Cl. 10.4, Table 1 of IS 694:2010, IS:10810 (Part 53) - 1984
77.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Oxygen Index Test on Insulation & Sheath	Cl. 10.5, Table 1 of IS 694:2010, IS:10810 (Part 58) – 1998, ASTM D2863-19
78.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Determination of the halogen acid gas content on insulation & sheath	Cl. 10.6, Table 1 of IS 694:2010, IS:10810 (Part 59) – 1988, IEC 60754-1: 2011
79.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Measurement of temperature index on insulation & sheath	Cl. 10.7, Table 1 of IS 694:2010, IS:10810 (Part 64) - 2003
80.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Smoke density rating on insulation & sheath	Cl. 10.8, Table 1 of IS 694:2010, IS:13360 (Part 6, Sec 9): 2001
81.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Additional ageing test	Cl. 10.9, Table-1 of IS 694:2010

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
82.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Persulphate test (for tinned copper conductor cable only)	Cl. 10.11, Table 1 of IS 694:2010, IS:10810 (Part 4) - 1984
83.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Legibility and durability	Cl. 11.1, Cl. 11.2 of IS 694:2010
84.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Ageing in air oven on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 11) - 1984
85.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Annealing test (for copper)	Table 1 of IS 694:2010, IS:10810 (Part 1) - 1984
86.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Cold bend test on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 20) - 1984
87.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Cold impact test on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 21) - 1984
88.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Conductor resistance test / resistance of conductors	Table 1 of IS 694:2010, IS:10810 (Part 5) - 1984
89.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Heat Shock Test on Insulation & Sheath	Table 1 of IS 694:2010, IS:10810 (Part 14) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
90.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Hot deformation/ pressure test at high temperature on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 15) - 1984
91.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Insulation resistance	Table 1 of IS 694:2010, IS:10810 (Part 43) - 1984
92.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Loss of mass on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 10) - 1984
93.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Shrinkage test on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 12) - 1984
94.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Tensile strength & elongation at break on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 7) - 1984
95.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Tensile test (for aluminium)	Table 1 of IS 694:2010, IS:10810 (Part 2) - 1984
96.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Test for overall dimensions, eccentricity & thickness of insulation & sheath	Table 1, Table 3 to 10 of IS 694:2010, IS:10810 (Part 6) - 1984
97.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Thermal stability test on insulation & sheath	Table 1 of IS 694:2010, IS:10810 (Part 60) - 1988

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
98.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Volume resistivity	Table 1 of IS 694:2010, IS:10810 (Part 43) - 1984
99.	Polyvinyl chloride insulated unsheathed and sheathed cables/cords	Wrapping test (for aluminium)	Table 1 of IS 694:2010, IS:10810 (Part 3) - 1984
100.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Test for thickness of insulation & sheath	Cl. 9, Cl. 12, Cl. 14, Cl. 15.1 (c) of IS:1554 (Part 1) – 1988, IS:10810 (Part 6) - 1984
101.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Armoured coverage percentage	Cl. 13.1.2, Appendix C of IS:1554 (PART 1)-1988
102.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Dimensions of armouring material	Cl. 13.3, Cl. 15.1 (b) (1) of IS:1554 (Part 1) – 1988, IS:10810 (Part 36) - 1984
103.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Tensile strength at break for armouring material	Cl. 13.6 (a), Cl. 15.1 (b) (i) of IS:1554 (Part 1) – 1988, IS:10810 (Part 7) - 1984
104.	PVC insulated (heavy duty) electric cables for working	Elongation at break for armouring material	Cl. 13.6 (b), Cl. 15.1 (b) (ii) of IS:1554 (Part 1) – 1988, IS:10810 (Part 37) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
105.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Torsion test for round wire	Cl. 13.6 (c), Cl. 15.1 (b) (iii) of IS:1554 (Part 1) – 1988, IS:10810 (Part 38) - 1984
106.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Winding test for formed wire	Cl. 13.6 (d), Cl. 15.1 (b) (iv) of IS:1554 (Part 1) – 1988, IS:10810 (Part 39) - 1984
107.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Uniformity of zinc coating	Cl. 13.6 (e), Cl. 15.1 (b) (v) of IS:1554 (Part 1) – 1988, IS:10810 (Part 40) - 1984
108.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Mass of zinc coating	Cl. 13.6 (f), Cl. 15.1 (b) (vi) of IS:1554 (PART 1)-1988, IS:10810 (Part 41) - 1984
109.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Resistivity test	Cl. 13.6 (g), Cl. 15.1 (b) (vii) of IS:1554 (Part 1) – 1988, IS:10810 (Part 42) - 1984
110.	PVC insulated (heavy duty) electric cables for working	Cold bend test on insulation & sheath	Cl. 15.4 (a) of IS:1554 (Part 1) – 1988, IS:10810 (Part 20) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
111.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Annealing test (for copper)	Cl. 15.1 (a) (1) of IS:1554 (Part 1) – 1988, IS:10810 (Part 1) - 1984
112.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Tensile test (for aluminium)	Cl. 15.1 (a) (2) of IS:1554 (Part 1) – 1988, IS:10810 (Part 2) - 1984
113.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Wrapping test (for aluminium)	Cl. 15.1 (a) (3) of IS:1554 (Part 1) – 1988, IS:10810 (Part 3) - 1984
114.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Conductor resistance test / resistance of conductors	Cl. 15.1 (a) (4) of IS:1554 (Part 1) – 1988, IS:10810 (Part 5) - 1984
115.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Cold impact test on insulation & sheath	Cl. 15.4 (b) of IS:1554 (Part 1) – 1988, IS:10810 (Part 21) - 1984
116.	PVC insulated (heavy duty) electric cables for working	Tensile strength & elongation at break on insulation & sheath	Cl. 15.1 (d) (1) of IS:1554 (Part 1) – 1988, IS:10810 (Part 7) - 1984

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
117.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Ageing in air oven on insulation & sheath	Cl. 15.1 (d) (2) of IS:1554 (Part 1) – 1988, IS:10810 (Part 11) - 1984
118.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Shrinkage test on insulation & sheath	Cl. 15.1 (d) (3) of IS:1554 (Part 1) – 1988, IS:10810 (Part 12) - 1984
119.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Hot deformation test On insulation & sheath	Cl. 15.1 (d) (4) of IS:1554 (Part 1) – 1988, IS:10810 (Part 15) - 1984
120.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Loss of mass on insulation & sheath	Cl. 15.1 (d) (5) of IS:1554 (Part 1) – 1988, IS:10810 (Part 10) - 1984
121.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Heat shock test on insulation & sheath	Cl. 15.1 (d) (6) of IS:1554 (Part 1) – 1988, IS:10810 (Part 14) - 1984
122.	PVC insulated (heavy duty) electric cables for working	Thermal stability test on insulation & sheath	Cl. 15.1 (d) (7) of IS:1554 (Part 1) – 1988, IS:10810 (Part 60) - 1988

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
123.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Volume resistivity	Cl. 15.1 (e) of IS:1554 (Part 1) – 1988, IS:10810 (Part 43) - 1984
124.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Insulation resistance	Cl. 15.1 (e) of IS:1554 (Part 1) – 1988, IS:10810 (Part 43) - 1984
125.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Flammability test / flame propagation on single cable	Cl. 15.1 (h), Cl. 16.4 of IS:1554 (Part 1) – 1988, IS:10810 (Part 53) – 1984, IEC/BSEN 60332-1-2
126.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	High voltage test at room temperature	Cl. 16.2, Cl. 15.1 (g) of IS:1554 (Part 1) – 1988, IS:10810 (Part 45) - 1984
127.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	High voltage test (water immersion)	Cl. 16.3, Cl. 15.1 (f) of IS:1554 (Part 1) – 1988, IS:10810 (Part 45) - 1984
128.	PVC insulated (heavy duty) electric cables for working	Oxygen index test	Cl. 16.5 of IS:1554 (Part 1) – 1988, IS:10810 (Part 58) - 1998

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
	voltages upto and including 1100V		
129.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Flame retardance test on single cables	Cl. 16.6 of IS:1554 (PART 1)-1988, IS:10810 (Part 61) - 1988
130.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Flame retardance test on bunched cables	Cl. 16.7 of IS:1554 (PART 1)- 1988, IS:10810 (Part 62) – 1993, IEC 60332-3-21 to 25
131.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Determination of the halogen acid gas content	Cl. 16.9 of IS:1554 (Part 1) – 1988, IS:10810 (Part 59) – 1988, IEC 60754-1:2011
132.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Measurement of temperature index	Cl. 16.10 of IS:1554 (Part 1) – 1988, IS:10810 (Part 64) - 2003
133.	PVC insulated (heavy duty) electric cables for working voltages upto and including 1100V	Smoke density rating	Cl. 16.11 of IS:1554 (Part 1)-1988, IS:10810 (Part 63) – 1993, IEC 60754-2:2005
134.	Zinc coated articles	Uniformity of zinc coating	IS 2633:1986 RA: 2016
135.	Zinc coated iron and steel articles	Average mass of zinc coating	IS 6745-1972 RA: 2016

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
136.	Copper	Copper purity	IS 191:2007/ IS 440:1964

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
1.	Domestic electric food-mixers (liquidizers and grinders)	Classification	Cl. 6, 6.1 of IS 4250: 1980 and Cl. 6 of IS 302: PART 1: 2008
2.	Domestic electric food-mixers (liquidizers and grinders)	Marking & Instructions	Cl. 7, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6 of IS 4250: 1980 and Cl. 7 of IS 302: PART 1: 2008
3.	Domestic electric food-mixers (liquidizers and grinders)	Protection against electric shock	Cl. 8, 8.1 of IS 4250: 1980 and Cl. 8 of IS 302: PART 1: 2008
4.	Domestic electric food-mixers (liquidizers and grinders)	Starting of motor-operated appliances	Cl. 9 of IS 4250: 1980 and Cl. 9 of IS 302: PART 1: 2008
5.	Domestic electric food-mixers (liquidizers and grinders)	Input	Cl. 10, 10.1 of IS 4250: 1980 and Cl. 10 of IS 302: PART 1: 2008
6.	Domestic electric food-mixers (liquidizers and grinders)	Temperature rise	Cl. 11, 11.1, 11.2, 11.3 of IS 4250: 1980 and Cl. 11 of IS 302: PART 1: 2008
7.	Domestic electric food-mixers (liquidizers and grinders)	Electrical insulation and leakage current at operating temperature	Cl. 13 of IS 4250: 1980 and Cl. 13 of IS 302: PART 1: 2008
8.	Domestic electric food-mixers (liquidizers and grinders)	Radio and television interference suppression	Cl. 14 of IS 4250: 1980 and Cl. 14 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
9.	Domestic electric food-mixers (liquidizers and grinders)	Moisture resistance	Cl. 15, 15.1, 15.2, 15.2.1 of IS 4250: 1980 and Cl. 15 of IS 302: PART 1: 2008
10.	Domestic electric food-mixers (liquidizers and grinders)	Insulation resistance and electric strength	Cl. 16, 16.1 of IS 4250: 1980 and Cl. 16 of IS 302: PART 1: 2008
11.	Domestic electric food-mixers (liquidizers and grinders)	Endurance	Cl. 18, 18.1, 18.2, 18.3, 18.4 of IS 4250: 1980 and Cl. 18 of IS 302: PART 1: 2008
12.	Domestic electric food-mixers (liquidizers and grinders)	Abnormal operation	Cl. 19, 19.1 of IS 4250: 1980 and Cl. 19 of IS 302: PART 1: 2008
13.	Domestic electric food-mixers (liquidizers and grinders)	Stability and mechanical hazards	Cl. 20, 20.1 of IS 4250: 1980 and Cl. 20 of IS 302: PART 1: 2008
14.	Domestic electric food-mixers (liquidizers and grinders)	Mechanical strength	Cl. 21, 21.1 of IS 4250: 1980 and Cl. 21 of IS 302: PART 1: 2008
15.	Domestic electric food-mixers (liquidizers and grinders)	Construction	Cl. 22, 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 22.8, 22.9, 22.10 of IS 4250: 1980 and Cl. 22 of IS 302: PART 1: 2008
16.	Domestic electric food-mixers (liquidizers and grinders)	Internal wiring	Cl. 23, 23.1 of IS 4250: 1980 and Cl. 32 of IS 302: PART 1: 2008
17.	Domestic electric food-mixers (liquidizers and grinders)	Components	Cl. 24, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9 of IS 4250: 1980 and Cl. 24 of IS 302: PART 1: 2008
18.	Domestic electric food-mixers (liquidizers and grinders)	Supply connection & external flexible cables & cords	Cl. 25, 25.1 of IS 4250: 1980 and Cl. 25 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
19.	Domestic electric food-mixers (liquidizers and grinders)	Terminals for external conductors	Cl. 26 of IS 4250: 1980 and Cl. 26 of IS 302: PART 1: 2008
20.	Domestic electric food-mixers (liquidizers and grinders)	Provision for Earthing	Cl. 27, 27.1 of IS 4250: 1980 and Cl. 32 of IS 302: PART 1: 2008
21.	Domestic electric food-mixers (liquidizers and grinders)	Screws and connections	Cl. 28, 28.1 of IS 4250: 1980 and Cl. 28 of IS 302: PART 1: 2008
22.	Domestic electric food-mixers (liquidizers and grinders)	Clearances, creepage distances and solid insulations	Cl. 29, 29.1 of IS 4250: 1980 and Cl. 29 of IS 302: PART 1: 2008
23.	Domestic electric food-mixers (liquidizers and grinders)	Resistance to heat, fire and tracking	Cl. 30, 30.1 of IS 4250: 1980 and Cl. 30 of IS 302: PART 1: 2008
24.	Domestic electric food-mixers (liquidizers and grinders)	Resistance to rusting	Cl. 31, 31.1 of IS 4250: 1980 and Cl. 31 of IS 302: PART 1: 2008
25.	Domestic electric food-mixers (liquidizers and grinders)	Finish	Cl. 33 of IS 4250: 1980
26.	Domestic electric food-mixers (liquidizers and grinders)	Operational tests	Cl. 34, 34.1, 34.2, 34.3, 34.4 of IS 4250 :1980
27.	Domestic electric food-mixers (liquidizers and grinders)	Temperature withstand test for Bowl	Cl. 35, 35.1, 35.1.1 of IS 4250 :1980
28.	Domestic electric food-mixers (liquidizers and grinders)	Test for controls	Cl. 36, 36.1, 36.2 of IS 4250 :1980
29.	Domestic electric food-mixers (liquidizers and grinders)	Strength of assembly	Cl. 37, 37.1 of IS 4250 :1980
30.	Electric instantaneous water heaters	Finish	Cl. 10 of IS 8978: 1992

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	Domestic Electrical Appliances		
31.	Electric instantaneous water heaters	Operation of flow switch	Cl. 11 of IS 8978: 1992
32.	Electric instantaneous water heaters	Endurance	Cl. 12 of IS 8978: 1992
33.	Electric immersion water heaters	Operation under overload conditions of appliances with heating elements	Cl. 12 of IS 368: 2014
34.	Electric immersion water heaters	Endurance	Cl. 18 of IS 368: 2014
35.	Electric iron	Measurement of heating-up time	Cl. 10 of IS 366: 1991
36.	Electric iron	Measurement of sole plate temperature	Cl. 11 of IS 366: 1991
37.	Electric iron	Measurement of temperature distribution	Cl. 12 of IS 366: 1991
38.	Electric iron	Measurement of initial overswing temperature and heating-up excess temperature	Cl. 13 of IS 366: 1991
39.	Electric iron	Measurement of cyclic fluctuation of temperature	Cl. 14 of IS 366: 1991
40.	Electric iron	Measurement of temperature and average input power under idling operations	Cl. 15 of IS 366: 1991
41.	Electric iron	Measurement of thermostatic stability	Cl. 16 of IS 366: 1991

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
42.	Household and similar electrical appliances- safety requirements	Classification	Cl. 6 of IS 302: PART 1: 2008 and Cl. 6 of IEC 60335-1:2020
43.	Household and similar electrical appliances- safety requirements	Marking & instructions	Cl. 7 of IS 302: PART 1: 2008 and Cl. 7 of IEC 60335-1:2020
44.	Household and similar electrical appliances- safety requirements	Protection against access to live parts	Cl. 8 of IS 302: PART 1: 2008 and Cl. 8 of IEC 60335-1:2020
45.	Household and similar electrical appliances- safety requirements	Starting of motor-operated appliances	Cl. 9 of IS 302: PART 1: 2008 and Cl. 9 of IEC 60335-1:2020
46.	Household and similar electrical appliances- safety requirements	Power input and current	Cl. 10 of IS 302: PART 1: 2008 and Cl. 10 of IEC 60335-1:2020
47.	Household and similar electrical appliances- safety requirements	Heating	Cl. 11 of IS 302: PART 1: 2008 and Cl. 11 of IEC 60335-1:2020
48.	Household and similar electrical appliances- safety requirements	Leakage current and electric strength at operating temp.	Cl. 13 of IS 302: PART 1: 2008 and Cl. 13 of IEC 60335-1:2020
49.	Household and similar electrical appliances- safety requirements	Moisture resistance	Cl. 15 of IS 302: PART 1: 2008 and Cl. 15 of IEC 60335-1:2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
50.	Household and similar electrical appliances- safety requirements	Leakage current and electric strength	Cl. 16 of IS 302: PART 1: 2008 and Cl. 16 of IEC 60335-1:2020
51.	Household and similar electrical appliances- safety requirements	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 1: 2008 and Cl. 17 of IEC 60335-1:2020
52.	Household and similar electrical appliances- safety requirements	Endurance	Cl. 18 of IS 302: PART 1: 2008 and Cl. 18 of IEC 60335-1:2020
53.	Household and similar electrical appliances- safety requirements	Abnormal operation	Cl. 19 of IS 302: PART 1: 2008 and Cl. 19 of IEC 60335-1:2020
54.	Household and similar electrical appliances- safety requirements	Stability and mechanical hazards	Cl. 20 of IS 302: PART 1: 2008 and Cl. 20 of IEC 60335-1:2020
55.	Household and similar electrical appliances- safety requirements	Mechanical strength	Cl. 21 of IS 302: PART 1: 2008 and Cl. 21 of IEC 60335-1:2020
56.	Household and similar electrical appliances- safety requirements	Construction	Cl. 22 of IS 302: PART 1: 2008 and Cl. 22 of IEC 60335-1:2020
57.	Household and similar electrical appliances- safety requirements	Internal wiring	Cl. 23 of IS 302: PART 1: 2008 and Cl. 23 of IEC 60335-1:2020



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
58.	Household and similar electrical appliances- safety requirements	Components	Cl. 24 of IS 302: PART 1: 2008 and Cl. 24 of IEC 60335-1:2020
59.	Household and similar electrical appliances- safety requirements	Supply connection & external flexible cables & cords	Cl. 25 of IS 302: PART 1: 2008 and Cl. 25 of IEC 60335-1:2020
60.	Household and similar electrical appliances- safety requirements	Terminals for external conductors	Cl. 26 of IS 302: PART 1: 2008 and Cl. 26 of IEC 60335-1:2020
61.	Household and similar electrical appliances- safety requirements	Provision for Earthing	Cl. 27 of IS 302: PART 1: 2008 and Cl. 27 of IEC 60335-1:2020
62.	Household and similar electrical appliances- safety requirements	Screws and connections	Cl. 28 of IS 302: PART 1: 2008 and Cl. 28 of IEC 60335-1:2020
63.	Household and similar electrical appliances- safety requirements	Clearances, creepage distances and solid insulations	Cl. 29 of IS 302: PART 1: 2008 and Cl. 29 of IEC 60335-1:2020
64.	Household and similar electrical appliances- safety requirements	Resistance to heat and fire	Cl. 30 of IS 302: PART 1: 2008 and Cl. 30 of IEC 60335-1:2020
65.	Household and similar electrical appliances- safety requirements	Resistance to rusting	Cl. 31 of IS 302: PART 1: 2008 and Cl. 31 of IEC 60335-1:2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
66.	Household and similar electrical appliances- electric iron	Classification	Cl. 6 of IS 302: PART 2: SEC 3: 2007, Cl. 7 of IS 366: 1991 and Cl. 6 of IS 302: PART 1: 2008
67.	Household and similar electrical appliances- electric iron	Marking & Instructions	Cl. 7, 7.1, 7.12, 7.15, 7.101, 7.101.1 of IS 302: PART 2: SEC 3: 2007, Cl. 7 of IS 366: 1991 and Cl. 7 of IS 302: PART 1: 2008
68.	Household and similar electrical appliances- electric iron	Protection against access to live parts	Cl. 8, 8.1.2 of IS 302: PART 2: SEC 3: 2007 and Cl. 8 of IS 302: PART 1: 2008
69.	Household and similar electrical appliances- electric iron	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 3: 2007 and Cl. 10 of IS 302: PART 1: 2008
70.	Household and similar electrical appliances- electric iron	Temperature rise	Cl. 11, 11.2, 11.4, 11.7, 11.8 of IS 302: PART 2: SEC 3: 2007 and Cl. 11 of IS 302: PART 1: 2008
71.	Household and similar electrical appliances- electric iron	Leakage current and electric strength at operating temp.	Cl. 13 of IS 302: PART 2: SEC 3: 2007 and Cl. 13 of IS 302: PART 1: 2008
72.	Household and similar electrical appliances- electric iron	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 3: 2007 and Cl. 14 of IS 302: PART 1: 2008
73.	Household and similar electrical appliances- electric iron	Moisture resistance	Cl. 15, 15.2 of IS 302: PART 2: SEC 3: 2007 and Cl. 15 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
74.	Household and similar electrical appliances- electric iron	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 3: 2007 and Cl. 16 of IS 302: PART 1: 2008
75.	Household and similar electrical appliances- electric iron	Abnormal operation	Cl. 19, 19.1, 19.4, 19.7, 19.101 of IS 302: PART 2: SEC 3: 2007 and Cl. 19 of IS 302: PART 1: 2008
76.	Household and similar electrical appliances- electric iron	Stability and mechanical hazards	Cl. 20, 20.1 of IS 302: PART 2: SEC 3: 2007 and Cl. 20 of IS 302: PART 1: 2008
77.	Household and similar electrical appliances- electric iron	Mechanical strength/ verification of construction	Cl. 21, 21.101 of IS 302: PART 2: SEC 3: 2007 and Cl. 21 of IS 302: PART 1: 2008
78.	Household and similar electrical appliances- electric iron	Construction	Cl. 22, 22.7, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107 of IS 302: PART 2: SEC 3: 2007 and Cl. 22 of IS 302: PART 1: 2008
79.	Household and similar electrical appliances- electric iron	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 3: 2007 and Cl. 23 of IS 302: PART 1: 2008
80.	Household and similar electrical appliances- electric iron	Components	Cl. 24, 24.1.3, 24.4, 24.101 of IS 302: PART 2: SEC 3: 2007 and Cl. 24 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
81.	Household and similar electrical appliances- electric iron	Supply connection & external flexible cords	Cl. 25, 25.5, 25.7, 25.14 of IS 302: PART 2: SEC 3: 2007 and Cl. 25 of IS 302: PART 1: 2008
82.	Household and similar electrical appliances- electric iron	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 3: 2007 and Cl. 26 of IS 302: PART 1: 2008
83.	Household and similar electrical appliances- electric iron	Provision for Earthing	Cl. 27 of IS 302: PART 2: SEC 3: 2007 and Cl. 27 of IS 302: PART 1: 2008
84.	Household and similar electrical appliances- electric iron	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 3: 2007 and Cl. 28 of IS 302: PART 1: 2008
85.	Household and similar electrical appliances- electric iron	Clearances, Creepage distances and solid insulations	Cl. 29 of IS 302: PART 2: SEC 3: 2007 and Cl. 29 of IS 302: PART 1: 2008
86.	Household and similar electrical appliances- electric iron	Resistance to heat, fire and tracking	Cl. 30, 30.1 of IS 302: PART 2: SEC 3: 2007 and Cl. 30 of IS 302: PART 1: 2008
87.	Household and similar electrical appliances- electric iron	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 3: 2007 and Cl. 31 of IS 302: PART 1: 2008
88.	Household and similar electrical appliances- cooking ranges, hobs, ovens and similar appliances	Classification	Cl. 6, 6.1 of IS 302: PART 2: SEC 6: 2009 and Cl. 6 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
89.	Household and similar electrical appliances- cooking ranges, hobs, ovens and similar appliances	Marking & instructions	Cl. 7, 7.1, 7.6, 7.10, 7.12, 7.12.1, 7.12.3, 7.12.4, 7.15, 7.101, 7.102, 7.103, 7.103.1 of IS 302: PART 2: SEC 6: 2009 and Cl. 7 of IS 302: PART 1: 2008
90.	Household and similar electrical appliances- cooking ranges, hobs, ovens and similar appliances	Protection against access to live parts	Cl. 8, 8.1.2, 8.1.3 of IS 302: PART 2: SEC 6: 2009 and Cl. 8 of IS 302: PART 1: 2008
91.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Power input and current	Cl. 10, 10.1, 10.2 of IS 302: PART 2: SEC 6: 2009 and Cl. 10 of IS 302: PART 1: 2008
92.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Heating	Cl. 11, 11.1, 11.2, 11.3, 11.4, 11.6, 11.7, 11.7.101, 11.7.102, 11.7.103, 11.7.104, 11.7.105, 11.7.106, 11.7.107, 11.8, 11.101 of IS 302: PART 2: SEC 6: 2009 and Cl. 11 of IS 302: PART 1: 2008
93.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Leakage current and electric strength at operating temperature	Cl. 13, 13.1, 13.2, 13.3 of IS 302: PART 2: SEC 6: 2009 and Cl. 13 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
94.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 6: 2009 and Cl. 14 of IS 302: PART 1: 2008
95.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Moisture resistance	Cl. 15, 15.2, 15.101 of IS 302: PART 2: SEC 6: 2009 and Cl. 15 of IS 302: PART 1: 2008
96.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Leakage current and electric strength	Cl. 16, 16.1, 16.2, 16.3 of IS 302: PART 2: SEC 6: 2009 and Cl. 16 of IS 302: PART 1: 2008
97.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 6: 2009 and Cl. 17 of IS 302: PART 1: 2008
98.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Abnormal operation	Cl. 19, 19.1, 19.2, 19.11.2, 19.13, 19.101, 19.102 of IS 302: PART 2: SEC 6: 2009 and Cl. 19 of IS 302: PART 1: 2008
99.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Stability and mechanical hazards	Cl. 20, 20.101 of IS 302: PART 2: SEC 6: 2009 and Cl. 20 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
100.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Mechanical strength	Cl. 21, 21.1, 21.101, 21.102, 21.103, 21.104 of IS 302: PART 2: SEC 6: 2009 and Cl. 21 of IS 302: PART 1: 2008
101.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Construction	Cl. 22, 22.21, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108, 22.109, 22.110, 22.111, 22.112, 22.113, 22.114, 22.115, 22.116, 22.117, 22.118, 22.119, 22.120, 22.121 of IS 302: PART 2: SEC 6: 2009 and Cl. 22 of IS 302: PART 1: 2008
102.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Internal wiring	Cl. 23, 23.3 of IS 302: PART 2: SEC 6: 2009 and Cl. 23 of IS 302: PART 1: 2008
103.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Components	Cl. 24, 24.1.3, 24.1.4, 24.101, 24.102 of IS 302: PART 2: SEC 6: 2009 and Cl. 24 of IS 302: PART 1: 2008
104.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Supply connection & external flexible cords	Cl. 25, 25.3, 25.14 of IS 302: PART 2: SEC 6: 2009 and Cl. 25 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
105.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 6: 2009 and Cl. 26 of IS 302: PART 1: 2008
106.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Provision for earthing	Cl. 27 of IS 302: PART 2: SEC 6: 2009 and Cl. 27 of IS 302: PART 1: 2008
107.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 6: 2009 and Cl. 28 of IS 302: PART 1: 2008
108.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Clearances, creepage distances and solid insulations	Cl. 29, 29.2, 29.3 of IS 302: PART 2: SEC 6: 2009 and Cl. 29 of IS 302: PART 1: 2008
109.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Resistance to heat and fire	Cl. 30, 30.2 of IS 302: PART 2: SEC 6: 2009 and Cl. 30 of IS 302: PART 1: 2008
110.	Household and similar electrical appliances - cooking ranges, hobs, ovens and similar appliances	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 6: 2009 and Cl. 31 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
111.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Classification	Cl. 6, 6.2 of IS 302: PART 2: SEC 9: 2009 and Cl. 6 of IS 302: PART 1: 2008
112.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Marking & instructions	Cl. 7, 7.1, 7.6, 7.12, 7.14, 7.15, 7.101, 7.102 of IS 302: PART 2: SEC 9: 2009 and Cl. 7 of IS 302: PART 1: 2008
113.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Protection against access to live parts	Cl. 8, 8.1.1 of IS 302: PART 2: SEC 9: 2009 and Cl. 8 of IS 302: PART 1: 2008
114.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Power input and current	Cl. 10, 10.1, 10.2 of IS 302: PART 2: SEC 9: 2009 and Cl. 10 of IS 302: PART 1: 2008
115.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Heating	Cl. 11, 11.1, 11.2, 11.3, 11.4, 11.7, 11.8, 11.101 of IS 302: PART 2: SEC 9: 2009 and Cl. 11 of IS 302: PART 1: 2008
116.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Leakage current and electric strength at operating temp.	Cl. 13, 13.1, 13.2, 13.3 of IS 302: PART 2: SEC 9: 2009 and Cl. 13 of IS 302: PART 1: 2008

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
117.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 9: 2009 and Cl. 14 of IS 302: PART 1: 2008
118.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Moisture resistance	Cl. 15, 15.2, 15.101 of IS 302: PART 2: SEC 9: 2009 and Cl. 15 of IS 302: PART 1: 2008
119.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Leakage current and electric strength	Cl. 16, 16.1, 16.2, 16.3 of IS 302: PART 2: SEC 9: 2009 and Cl. 16 of IS 302: PART 1: 2008
120.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Overload protection of Transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 9: 2009 and Cl. 17 of IS 302: PART 1: 2008
121.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Abnormal operation	Cl. 19, 19.1, 19.2, 19.4, 19.13, 19.101, 19.102, 19.103, 19.104 of IS 302: PART 2: SEC 9: 2009 and Cl. 19 of IS 302: PART 1: 2008
122.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Stability and mechanical hazards	Cl. 20, 20.101 of IS 302: PART 2: SEC 9: 2009 and Cl. 20 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
123.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Mechanical strength	Cl. 21, 21.1, 21.101 of IS 302: PART 2: SEC 9: 2009 and Cl. 21 of IS 302: PART 1: 2008
124.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Construction	Cl. 22, 22.24, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108, 22.109, 22.110, 22.111, 22.112 of IS 302: PART 2: SEC 9: 2009 and Cl. 22 of IS 302: PART 1: 2008
125.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Internal wiring	Cl. 23, 23.3 of IS 302: PART 2: SEC 9: 2009 and Cl. 23 of IS 302: PART 1: 2008
126.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Components	Cl. 24, 24.1.3, 24.1.4, 24.1.5, 24.101, 24.102 of IS 302: PART 2: SEC 9: 2009 and Cl. 24 of IS 302: PART 1: 2008
127.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Supply connection & external flexible cords	Cl. 25, 25.1, 25.7 of IS 302: PART 2: SEC 9: 2009 and Cl. 25 of IS 302: PART 1: 2008
128.	Household and similar electrical appliances	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 9: 2009 and Cl. 26 of IS 302: PART 1: 2008

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	Domestic Electrical Appliances		
	- toasters, grills, roasters and similar appliances		
129.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Provision for earthing	Cl. 27, 27.1 of IS 302: PART 2: SEC 9: 2009 and Cl. 27 of IS 302: PART 1: 2008
130.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 9: 2009 and Cl. 28 of IS 302: PART 1: 2008
131.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Clearances, creepage distances and solid insulation	Cl. 29, 29.2, 29.3 of IS 302: PART 2: SEC 9: 2009 and Cl. 29 of IS 302: PART 1: 2008
132.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Resistance to heat and fire	Cl. 30, 30.1, 30.2 of IS 302: PART 2: SEC 9: 2009 and Cl. 30 of IS 302: PART 1: 2008
133.	Household and similar electrical appliances - toasters, grills, roasters and similar appliances	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 9: 2009 and Cl. 31 of IS 302: PART 1: 2008
134.	Household and similar electrical appliances - electric kitchen machines	Classification	Cl. 6 of IS 302: PART 2: SEC 14: 2009 and Cl. 6 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
135.	Household and similar electrical appliances - electric kitchen machines	Marking & instructions	Cl. 7, 7.1, 7.12, 7.101 of IS 302: PART 2: SEC 14: 2009 and Cl. 7 of IS 302: PART 1: 2008
136.	Household and similar electrical appliances - electric kitchen machines	Protection against access to live parts	Cl. 8 of IS 302: PART 2: SEC 14: 2009 and Cl. 8 of IS 302: PART 1: 2008
137.	Household and similar electrical appliances - electric kitchen machines	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 14: 2009 and Cl. 10 of IS 302: PART 1: 2008
138.	Household and similar electrical appliances - electric kitchen machines	Heating	Cl. 11, 11.7, 11.7.101, 11.7.102, 11.7.103, 11.7.104, 11.7.105, 11.7.106, 11.7.107, 11.7.108, 11.7.109, 11.7.110, 11.7.111, 11.7.112, 11.7.113, 11.7.114, 11.7.115, 11.7.116, 11.7.117 of IS 302: PART 2: SEC 14: 2009 and Cl. 11 of IS 302: PART 1: 2008
139.	Household and similar electrical appliances - electric kitchen machines	Leakage current and electric strength at operating temp.	Cl. 13 of IS 302: PART 2: SEC 14: 2009 and Cl. 13 of IS 302: PART 1: 2008
140.	Household and similar electrical appliances - electric kitchen machines	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 14: 2009 and Cl. 14 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
141.	Household and similar electrical appliances - electric kitchen machines	Moisture resistance	Cl. 15, 15.2 of IS 302: PART 2: SEC 14: 2009 and Cl. 15 of IS 302: PART 1: 2008
142.	Household and similar electrical appliances - electric kitchen machines	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 14: 2009 and Cl. 16 of IS 302: PART 1: 2008
143.	Household and similar electrical appliances - electric kitchen machines	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 14: 2009 and Cl. 17 of IS 302: PART 1: 2008
144.	Household and similar electrical appliances - electric kitchen machines	Abnormal operation	Cl. 19, 19.1, 19.7, 19.10, 19.101, 19.102 of IS 302: PART 2: SEC 14: 2009 and Cl. 19 of IS 302: PART 1: 2008
145.	Household and similar electrical appliances - electric kitchen machines	Stability and mechanical hazards	Cl. 20, 20.2, 20.101, 20.102, 20.103, 20.104, 20.105, 20.106, 20.107, 20.108, 20.109, 20.110, 20.111, 20.112, 20.113, 20.114, 20.115, 20.116 of IS 302: PART 2: SEC 14: 2009 and Cl. 20 of IS 302: PART 1: 2008
146.	Household and similar electrical appliances - electric kitchen machines	Mechanical strength	Cl. 21 of IS 302: PART 2: SEC 14: 2009 and Cl. 21 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
147.	Household and similar electrical appliances - electric kitchen machines	Construction	Cl. 22, 22.40, 22.101, 22.102 of IS 302: PART 2: SEC 14: 2009 and Cl. 22 of IS 302: PART 1: 2008
148.	Household and similar electrical appliances - electric kitchen machines	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 14: 2009 and Cl. 23 of IS 302: PART 1: 2008
149.	Household and similar electrical appliances - electric kitchen machines	Components	Cl. 24, 24.1.3 of IS 302: PART 2: SEC 14: 2009 and Cl. 24 of IS 302: PART 1: 2008
150.	Household and similar electrical appliances - electric kitchen machines	Supply connection & external flexible cords	Cl. 25, 25.1, 25.5, 25.7, 25.14, 25.22 of IS 302: PART 2: SEC 14: 2009 and Cl. 25 of IS 302: PART 1: 2008
151.	Household and similar electrical appliances - electric kitchen machines	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 14: 2009 and Cl. 26 of IS 302: PART 1: 2008
152.	Household and similar electrical appliances - electric kitchen machines	Provision for earthing	Cl. 27 of IS 302: PART 2: SEC 14: 2009 and Cl. 27 of IS 302: PART 1: 2008
153.	Household and similar electrical appliances - electric kitchen machines	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 14: 2009 and Cl. 28 of IS 302: PART 1: 2008
154.	Household and similar electrical appliances - electric kitchen machines	Clearances, creepage distances and solid insulations	Cl. 29, 29.2 of IS 302: PART 2: SEC 14: 2009 and Cl. 29 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
155.	Household and similar electrical appliances - electric kitchen machines	Resistance to heat and fire	Cl. 30, 30.1, 30.2 of IS 302: PART 2: SEC 14: 2009 and Cl. 30 of IS 302: PART 1: 2008
156.	Household and similar electrical appliances - electric kitchen machines	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 14: 2009 and Cl. 31 of IS 302: PART 1: 2008
157.	Household and similar electrical appliances - appliances for heating liquids	Classification	Cl. 6, 6.2 of IS 302: PART 2: SEC 15: 2009 and Cl. 6 of IS 302: PART 1: 2008
158.	Household and similar electrical appliances - appliances for heating liquids	Marking & Instructions	Cl. 7, 7.1, 7.12, 7.101 of IS 302: PART 2: SEC 15: 2009 and Cl. 7 of IS 302: PART 1: 2008
159.	Household and similar electrical appliances - appliances for heating liquids	Protection against access to live parts	Cl. 8, 8.1.2 of IS 302: PART 2: SEC 15: 2009 and Cl. 8 of IS 302: PART 1: 2008
160.	Household and similar electrical appliances - appliances for heating liquids	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 15: 2009 and Cl. 10 of IS 302: PART 1: 2008
161.	Household and similar electrical appliances - appliances for heating liquids	Heating	Cl. 11, 11.2, 11.4, 11.6, 11.7, 11.7.101, 11.7.102, 11.7.103, 11.7.104, 11.7.105, 11.8 of IS 302: PART 2: SEC 15: 2009 and Cl. 11 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
162.	Household and similar electrical appliances - appliances for heating liquids	Leakage current and electric strength at operating temperature	Cl. 13 of IS 302: PART 2: SEC 15: 2009 and Cl. 13 of IS 302: PART 1: 2008
163.	Household and similar electrical appliances - appliances for heating liquids	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 15: 2009 and Cl. 14 of IS 302: PART 1: 2008
164.	Household and similar electrical appliances - appliances for heating liquids	Moisture resistance	Cl. 15, 15.2, 15.101, 15.102 of IS 302: PART 2: SEC 15: 2009 and Cl. 15 of IS 302: PART 1: 2008
165.	Household and similar electrical appliances - appliances for heating liquids	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 15: 2009 and Cl. 16 of IS 302: PART 1: 2008
166.	Household and similar electrical appliances - appliances for heating liquids	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 15: 2009 and Cl. 7 of IS 302: PART 1: 2008
167.	Household and similar electrical appliances - appliances for heating liquids	Abnormal operation	Cl. 19, 19.1, 19.2, 19.3, 19.4, 19.7, 19.13, 19.101, 19.102, 19.103 of IS 302: PART 2: SEC 15: 2009 and Cl. 19 of IS 302: PART 1: 2008
168.	Household and similar electrical appliances - appliances for heating liquids	Stability and mechanical hazards	Cl. 20 of IS 302: PART 2: SEC 15: 2009 and Cl. 20 of IS 302: PART 1: 2008
169.	Household and similar electrical appliances - appliances for heating liquids	Mechanical strength	Cl. 21, 21.1 of IS 302: PART 2: SEC 15: 2009 and Cl. 21 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
170.	Household and similar electrical appliances - appliances for heating liquids	Construction	Cl. 22, 22.6, 22.7 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108, 22.109, 22.110 of IS 302: PART 2: SEC 15: 2009 and Cl. 22 of IS 302: PART 1: 2008
171.	Household and similar electrical appliances - appliances for heating liquids	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 15: 2009 and Cl. 23 of IS 302: PART 1: 2008
172.	Household and similar electrical appliances - appliances for heating liquids	Components	Cl. 24, 24.1.3, 24.1.4, 24.1.5, 24.4, 24.101 of IS 302: PART 2: SEC 15: 2009 and Cl. 24 of IS 302: PART 1: 2008
173.	Household and similar electrical appliances - appliances for heating liquids	Supply connection & external flexible cords	Cl. 25. 25.1, 25.5, 25.7, 25.8, 25.101 of IS 302: PART 2: SEC 15: 2009 and Cl. 25 of IS 302: PART 1: 2008
174.	Household and similar electrical appliances - appliances for heating liquids	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 15: 2009 and Cl. 26 of IS 302: PART 1: 2008
175.	Household and similar electrical appliances - appliances for heating liquids	Provision for Earthing	Cl. 27 of IS 302: PART 2: SEC 15: 2009 and Cl. 27 of IS 302: PART 1: 2008
176.	Household and similar electrical appliances - appliances for heating liquids	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 15: 2009 and Cl. 28 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
177.	Household and similar electrical appliances - appliances for heating liquids	Clearances, creepage distances and solid insulations	Cl. 29, 29.2 of IS 302: PART 2: SEC 15: 2009 and Cl. 29 of IS 302: PART 1: 2008
178.	Household and similar electrical appliances - appliances for heating liquids	Resistance to heat and fire	Cl. 30, 30.1, 30.2 of IS 302: PART 2: SEC 15: 2009 and Cl. 30 of IS 302: PART 1: 2008
179.	Household and similar electrical appliances - appliances for heating liquids	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 15: 2009 and Cl. 31 of IS 302: PART 1: 2008
180.	Household and similar electrical appliances - stationary storage type electric water heaters	Classification	Cl. 6, 6.1, 6.2 of IS 302: PART 2: SEC 21: 2018, Cl. 6 of IS 2082: 2018 and Cl. 6 of IS 302: PART 1: 2008
181.	Household and similar electrical appliances- stationary storage type electric water heaters	Marking & instructions	Cl. 7, 7.1, 7.12, 7.12.1, 7.101 of IS 302: PART 2: SEC 21: 2018, Cl. 7 of IS 2082: 2018 and Cl. 7 of IS 302: PART 1: 2008
182.	Household and similar electrical appliances- stationary storage type electric water heaters	Protection against access to live parts	Cl. 8 of IS 302: PART 2: SEC 21: 2018, Cl. 8 of IS 2082: 2018 and Cl. 8 of IS 302: PART 1: 2008
183.	Household and similar electrical appliances- stationary storage type electric water heaters	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 21: 2018 and Cl. 10 of IS 302: PART 1: 2008

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
184.	Household and similar electrical appliances- stationary storage type electric water heaters	Heating	Cl. 11, 11.7 of IS 302: PART 2: SEC 21: 2018 and Cl. 11 of IS 302: PART 1: 2008
185.	Household and similar electrical appliances- stationary storage type electric water heaters	Leakage current and electric strength at operating temp.	Cl. 13 of IS 302: PART 2: SEC 21: 2018 and Cl. 13 of IS 302: PART 1: 2008
186.	Household and similar electrical appliances - stationary storage type electric water heaters	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 21: 2018 and Cl. 14 of IS 302: PART 1: 2008
187.	Household and similar electrical appliances- stationary storage type electric water heaters	Moisture resistance	Cl. 15, 15.2, 15.3 of IS 302: PART 2: SEC 21: 2018 and Cl. 15 of IS 302: PART 1: 2008
188.	Household and similar electrical appliances- stationary storage type electric water heaters	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 21: 2018 and Cl. 16 of IS 302: PART 1: 2008
189.	Household and similar electrical appliances- stationary storage type electric water heaters	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 21: 2018 and Cl. 17 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
190.	Household and similar electrical appliances- stationary storage type electric water heaters	Abnormal operation	Cl. 19, 19.1, 19.2, 19.3, 19.4, 19.13, 19.101 of IS 302: PART 2: SEC 21: 2018 and Cl. 19 of IS 302: PART 1: 2008
191.	Household and similar electrical appliances- stationary storage type electric water heaters	Stability and mechanical hazards	Cl. 20 of IS 302: PART 2: SEC 21: 2018 and Cl. 20 of IS 302: PART 1: 2008
192.	Household and similar electrical appliances - stationary storage type electric water heaters	Mechanical strength	Cl. 21 of IS 302: PART 2: SEC 21: 2018 and Cl. 21 of IS 302: PART 1: 2008
193.	Household and similar electrical appliances - stationary storage type electric water heaters	Construction	Cl. 22, 22.6, 22.20, 22.47, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108, 22.109, 22.110, 22.111 of IS 302: PART 2: SEC 21: 2018 and Cl. 22 of IS 302: PART 1: 2008
194.	Household and similar electrical appliances - stationary storage type electric water heaters	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 21: 2018 and Cl. 23 of IS 302: PART 1: 2008
195.	Household and similar electrical appliances	Components	Cl. 24, 24.1.4, 24.101, 24.102 of IS 302: PART 2: SEC 21: 2018 and Cl. 24 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- stationary storage type electric water heaters		
196.	Household and similar electrical appliances - stationary storage type electric water heaters	Supply connection & external flexible cords	Cl. 25, 25.1 of IS 302: PART 2: SEC 21: 2018 and Cl. 25 of IS 302: PART 1: 2008
197.	Household and similar electrical appliances - stationary storage type electric water heaters	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 21: 2018 and Cl. 26 of IS 302: PART 1: 2008
198.	Household and similar electrical appliances - stationary storage type electric water heaters	Provision for earthing	Cl. 27, 27.1 of IS 302: PART 2: SEC 21: 2018 and Cl. 27 of IS 302: PART 1: 2008
199.	Household and similar electrical appliances - stationary storage type electric water heaters	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 21: 2018 and Cl. 28 of IS 302: PART 1: 2008
200.	Household and similar electrical appliances - stationary storage type electric water heaters	Clearances, creepage distances and solid insulation	Cl. 29 of IS 302: PART 2: SEC 21: 2018 and Cl. 29 of IS 302: PART 1: 2008
201.	Household and similar electrical appliances	Resistance to heat and fire	Cl. 30, 30.1 of IS 302: PART 2: SEC 21: 2018 and Cl. 30 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- stationary storage type electric water heaters		
202.	Household and similar electrical appliances - stationary storage type electric water heaters	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 21: 2018 and Cl. 31 of IS 302: PART 1: 2008
203.	Stationary storage type electric water heaters	Verification of rated capacity	Cl. 14 of IS 2082: 2018
204.	Stationary storage type electric water heaters	Standing loss per 24 Hrs	Cl. 15 of IS 2082: 2018
205.	Stationary storage type electric water heaters	Hot water output	Cl. 16 of IS 2082: 2018
206.	Stationary storage type electric water heaters	Reheating time	Cl. 17 of IS 2082: 2018
207.	Stationary storage type electric water heaters	Mixing factor	Cl. 18 of IS 2082: 2018
208.	Stationary storage type electric water heaters	Deviation from dial calibration	Cl. 19 of IS 2082: 2018
209.	Stationary storage type electric water heaters	Cyclic temperature variation	Cl. 20 of IS 2082: 2018
210.	Stationary storage type electric water heaters	Finish	Cl. 21 of IS 2082: 2018
211.	Household and similar electrical appliances- room heaters	Classification	Cl. 6, 6.2 of IS 302: PART 2: SEC 30: 2007 and Cl. 30 of IS 302: PART 1: 2008

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
212.	Household and similar electrical appliances- room heaters	Marking & instructions	Cl. 7, 7.1, 7.6, 7.12, 7.12.1, 7.14, 7.15, 7.101.0, 7.101.1 of IS 302: PART 2: SEC 30: 2007 and Cl. 6 of IS 302: PART 1: 2008
213.	Household and similar electrical appliances- room heaters	Protection against access to live parts	Cl. 8, 8.1.1 of IS 302: PART 2: SEC 30: 2007 and Cl. 8 of IS 302: PART 1: 2008
214.	Household and similar electrical appliances- room heaters	Power input and current	Cl. 10 of IS 302: PART 2: SEC 30: 2007 and Cl. 10 of IS 302: PART 1: 2008
215.	Household and similar electrical appliances- room heaters	Heating	Cl. 11, 11.2, 11.3, 11.4, 11.6, 11.7, 11.8 of IS 302: PART 2: SEC 30: 2007 and Cl. 11 of IS 302: PART 1: 2008
216.	Household and similar electrical appliances- room heaters	Leakage current and electric strength at operating temperature	Cl. 13 of IS 302: PART 2: SEC 30: 2007 and Cl. 13 of IS 302: PART 1: 2008
217.	Household and similar electrical appliances- room heaters	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 30: 2007 and Cl. 14 of IS 302: PART 1: 2008
218.	Household and similar electrical appliances- room heaters	Moisture resistance	Cl. 15 of IS 302: PART 2: SEC 30: 2007 and Cl. 15 of IS 302: PART 1: 2008



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
219.	Household and similar electrical appliances- room heaters	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 30: 2007 and Cl. 16 of IS 302: PART 1: 2008
220.	Household and similar electrical appliances- room heaters	Overload protection of Transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 30: 2007 and Cl. 17 of IS 302: PART 1: 2008
221.	Household and similar electrical appliances- room heaters	Abnormal operation	Cl. 19, 19.1, 19.13, 19.101, 19.102, 19.103, 19.104, 19.105, 19.106, 19.107, 19.108, 19.109, 19.110, 19.111, 19.112, 19.113, 19.114 of IS 302: PART 2: SEC 30: 2007 and Cl. 19 of IS 302: PART 1: 2008
222.	Household and similar electrical appliances - room heaters	Stability and mechanical hazards	Cl. 20, 20.1 of IS 302: PART 2: SEC 30: 2007 and Cl. 20 of IS 302: PART 1: 2008
223.	Household and similar electrical appliances - room heaters	Mechanical strength	Cl. 21, 21.101, 21.102, 21.103 of IS 302: PART 2: SEC 30: 2007 and Cl. 21 of IS 302: PART 1: 2008
224.	Household and similar electrical appliances - room heaters	Construction	Cl. 22, 22.24, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108 of IS 302: PART 2: SEC 30: 2007 and Cl. 22 of IS 302: PART 1: 2008



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	Domestic Electrical Appliances		
225.	Household and similar electrical appliances - room heaters	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 30: 2007 and Cl. 23 of IS 302: PART 1: 2008
226.	Household and similar electrical appliances - room heaters	Components	Cl. 24, 24.1.3, 24.1.4, 24.101 of IS 302: PART 2: SEC 30: 2007 and Cl. 24 of IS 302: PART 1: 2008
227.	Household and similar electrical appliances - room heaters	Supply connection & external flexible cords	Cl. 25, 25.7 of IS 302: PART 2: SEC 30: 2007 and Cl. 25 of IS 302: PART 1: 2008
228.	Household and similar electrical appliances - room heaters	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 30: 2007 and Cl. 26 of IS 302: PART 1: 2008
229.	Household and similar electrical appliances - room heaters	Provision for Earthing	Cl. 27 of IS 302: PART 2: SEC 30: 2007 and Cl. 27 of IS 302: PART 1: 2008
230.	Household and similar electrical appliances - room heaters	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 30: 2007 and Cl. 28 of IS 302: PART 1: 2008
231.	Household and similar electrical appliances - room heaters	Clearances, creepage distances and solid insulation	Cl. 29, 29.2 of IS 302: PART 2: SEC 30: 2007 and Cl. 29 of IS 302: PART 1: 2008
232.	Household and similar electrical appliances - room heaters	Resistance to heat and fire	Cl. 30, 30.1, 30.2.1, 30.101 of IS 302: PART 2: SEC 30: 2007 and Cl. 30 of IS 302: PART 1: 2008



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	Domestic Electrical Appliances		
233.	Household and similar electrical appliances - room heaters	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 30: 2007 and Cl. 31 of IS 302: PART 1: 2008
234.	Household electric direct-acting room heaters	Dimensions, mass and means of connection to the supply (for all heaters)	Cl. 7 of IS 369: 2019
235.	Household electric direct-acting room heaters	Temperature rises of air-outlet grilles and external surfaces (for all heaters)	Cl. 8 of IS 369: 2019
236.	Household electric direct-acting room heaters	Temperature rises of surfaces surrounding the heater (for all heaters)	Cl. 9 of IS 369: 2019
237.	Household electric direct-acting room heaters	Warming-up time of the heater (for all heaters)	Cl. 10 of IS 369: 2019
238.	Household electric direct-acting room heaters	Stability of room temperature (for heaters with an ambient temperature thermostat)	Cl. 11 of IS 369: 2019
239.	Household electric direct-acting room heaters	Set-back (for heaters with a set-back device)	Cl. 12 of IS 369: 2019
240.	Household electric direct-acting room heaters	Frost protection temperature (for heaters with frost protection means)	Cl. 13 of IS 369: 2019
241.	Household electric direct-acting room heaters	Inrush current (for all heaters)	Cl. 14 of IS 369: 2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
242.	Household electric direct-acting room heaters	Effect of radiant heat (for all heaters except fan heaters and heaters for mounting at a height above 1.8 m)	Cl. 15 of IS 369: 2019
243.	Household electric direct-acting room heaters	Measurement of the usable power (for all heaters)	Cl. 16 of IS 369: 2019
244.	Household and similar electrical appliances - electric instantaneous water heaters	Classification	Cl. 6, 6.1, 6.2 of IS 302: PART 2: SEC 35: 2017 and Cl. 32 of IS 302: PART 1: 2008
245.	Household and similar electrical appliances - electric instantaneous water heaters	Marking & instructions	Cl. 7, 7.1, 7.12, 7.12.1, 7.101, 7.102, 7.102.1 of IS 302: PART 2: SEC 35: 2017, Cl. 7, 7.1 of IS 8978: 1992 and Cl. 32 of IS 302: PART 1: 2008
246.	Household and similar electrical appliances - electric instantaneous water heaters	Protection against access to live parts	Cl. 8, 8.1.5 of IS 302: PART 2: SEC 35: 2017 and Cl. 8 of IS 302: PART 1: 2008
247.	Household and similar electrical appliances - electric instantaneous water heaters	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 35: 2017 and Cl. 10 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
248.	Household and similar electrical appliances - electric instantaneous water heaters	Heating	Cl. 11, 11.7 of IS 302: PART 2: SEC 35: 2017 and Cl. 11 of IS 302: PART 1: 2008
249.	Household and similar electrical appliances - electric instantaneous water heaters	Leakage current and electric strength at operating temperature	Cl. 13 of IS 302: PART 2: SEC 35: 2017 and Cl. 13 of IS 302: PART 1: 2008
250.	Household and similar electrical appliances - electric instantaneous water heaters	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 35: 2017 and Cl. 14 of IS 302: PART 1: 2008
251.	Household and similar electrical appliances - electric instantaneous water heaters	Moisture resistance	Cl. 15, 15.1.2 of IS 302: PART 2: SEC 35: 2017 and Cl. 15 of IS 302: PART 1: 2008
252.	Household and similar electrical appliances - electric instantaneous water heaters	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 35: 2017 and Cl. 16 of IS 302: PART 1: 2008
253.	Household and similar electrical appliances - electric instantaneous water heaters	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 35: 2017 and Cl. 17 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
254.	Household and similar electrical appliances - electric instantaneous water heaters	Abnormal operation	Cl. 19, 19.4, 19.13 of IS 302: PART 2: SEC 35: 2017 and Cl. 19 of IS 302: PART 1: 2008
255.	Household and similar electrical appliances - electric instantaneous water heaters	Stability and mechanical hazards	Cl. 20 of IS 302: PART 2: SEC 35: 2017 and Cl. 20 of IS 302: PART 1: 2008
256.	Household and similar electrical appliances - electric instantaneous water heaters	Mechanical strength	Cl. 21 of IS 302: PART 2: SEC 35: 2017 and Cl. 20 of IS 302: PART 1: 2008
257.	Household and similar electrical appliances - electric instantaneous water heaters	Construction	Cl. 22, 22.6, 22.47, 22.50, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108, 22.109, 22.110 of IS 302: PART 2: SEC 35: 2017 and Cl. 22 of IS 302: PART 1: 2008
258.	Household and similar electrical appliances - electric instantaneous water heaters	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 35: 2017 and Cl. 23 of IS 302: PART 1: 2008
259.	Household and similar electrical appliances	Components	Cl. 24, 24.1.3, 24.1.4, 24.101, 24.102 of IS 302: PART 2: SEC 35:

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- electric instantaneous water heaters		2017 and Cl. 24 of IS 302: PART 1: 2008
260.	Household and similar electrical appliances - electric instantaneous water heaters	Supply connection & external flexible cord	Cl. 25 of IS 302: PART 2: SEC 35: 2017 and Cl. 25 of IS 302: PART 1: 2008
261.	Household and similar electrical appliances - electric instantaneous water heaters	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 35: 2017 and Cl. 26 of IS 302: PART 1: 2008
262.	Household and similar electrical appliances - electric instantaneous water heaters	Provision for earthing	Cl. 27, 27.1 of IS 302: PART 2: SEC 35: 2017 and Cl. 27 of IS 302: PART 1: 2008
263.	Household and similar electrical appliances - electric instantaneous water heaters	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 35: 2017 and Cl. 28 of IS 302: PART 1: 2008
264.	Household and similar electrical appliances - electric instantaneous water heaters	Clearances, creepage distances and solid insulation	Cl. 29 of IS 302: PART 2: SEC 35: 2017 and Cl. 29 of IS 302: PART 1: 2008
265.	Household and similar electrical appliances	Resistance to heat and fire	Cl. 30, 30.2.2 of IS 302: PART 2: SEC 35: 2017 and Cl. 30 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- electric instantaneous water heaters		
266.	Household and similar electrical appliances - electric instantaneous water heaters	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 35: 2017 and Cl. 31 of IS 302: PART 1: 2008
267.	Household and similar electrical appliances - electric immersion water heaters	Classification	Cl. 6, 6.2 of IS 302: PART 2: SEC 201: 2008, Cl. 6 of IS 368: 2014 and Cl. 6 of IS 302: PART 1: 2008
268.	Household and similar electrical appliances - electric immersion water heaters	Marking & instructions	Cl. 7. 7.1, 7.12, 7.101 of IS 302: PART 2: SEC 201: 2008, Cl. 7 of IS 368: 2014 and Cl. 7 of IS 302: PART 1: 2008
269.	Household and similar electrical appliances - electric immersion water heaters	Protection against access to live parts	Cl. 8 of IS 302: PART 2: SEC 201: 2008, Cl. 8 of IS 368: 2014 and Cl. 8 of IS 302: PART 1: 2008
270.	Household and similar electrical appliances - electric immersion water heaters	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 201: 2008, Cl. 10 of IS 368: 2014 and Cl. 10 of IS 302: PART 1: 2008
271.	Household and similar electrical appliances	Heating	Cl. 11, 11.7 of IS 302: PART 2: SEC 201: 2008, Cl. 11 of IS 368: 2014 and Cl. 11 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- electric immersion water heaters		
272.	Household and similar electrical appliances - electric immersion water heaters	Leakage current and electric strength at operating temperature	Cl. 13 of IS 302: PART 2: SEC 201: 2008, Cl. 13 of IS 368: 2014 and Cl. 13 of IS 302: PART 1: 2008
273.	Household and similar electrical appliances - electric immersion water heaters	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 201: 2008, Cl. 14 of IS 368: 2014 and Cl. 14 of IS 302: PART 1: 2008
274.	Household and similar electrical appliances - electric immersion water heaters	Moisture resistance	Cl. 15 of IS 302: PART 2: SEC 201: 2008, Cl. 15 of IS 368: 2014 and Cl. 15 of IS 302: PART 1: 2008
275.	Household and similar electrical appliances - electric immersion water heaters	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 201: 2008, Cl. 16 of IS 368: 2014 and Cl. 16 of IS 302: PART 1: 2008
276.	Household and similar electrical appliances - electric immersion water heaters	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 201: 2008, Cl. 17 of IS 368: 2014 and Cl. 17 of IS 302: PART 1: 2008
277.	Household and similar electrical appliances	Abnormal operation	Cl. 19, 19.1, 19.2, 19.13 of IS 302: PART 2: SEC 201: 2008, Cl. 19,

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- electric immersion water heaters		19.101 of IS 368: 2014 and Cl. 19 of IS 302: PART 1: 2008
278.	Household and similar electrical appliances - electric immersion water heaters	Stability and mechanical hazards	Cl. 20 of IS 302: PART 2: SEC 201: 2008, Cl. 20 of IS 368: 2014 and Cl. 20 of IS 302: PART 1: 2008
279.	Household and similar electrical appliances - electric immersion water heaters	Mechanical strength	Cl. 21 of IS 302: PART 2: SEC 201: 2008, Cl. 21 of IS 368: 2014 and Cl. 21 of IS 302: PART 1: 2008
280.	Household and similar electrical appliances - electric immersion water heaters	Construction	Cl. 22 of IS 302: PART 2: SEC 201: 2008, Cl. 22, 22.101, 22.102, 22.103 of IS 368: 2014 and Cl. 22 of IS 302: PART 1: 2008
281.	Household and similar electrical appliances - electric immersion water heaters	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 201: 2008, Cl. 23 of IS 368: 2014 and Cl. 23 of IS 302: PART 1: 2008
282.	Household and similar electrical appliances - electric immersion water heaters	Components	Cl. 24, 24.101 of IS 302: PART 2: SEC 201: 2008, Cl. 24 of IS 368: 2014 and Cl. 24 of IS 302: PART 1: 2008
283.	Household and similar electrical appliances	Supply connection & external flexible cords	Cl. 25, 25.5 of IS 302: PART 2: SEC 201: 2008, Cl. 25 of IS 368: 2014 and Cl. 25 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
	- electric immersion water heaters		
284.	Household and similar electrical appliances - electric immersion water heaters	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 201: 2008, Cl. 26 of IS 368: 2014 and Cl. 26 of IS 302: PART 1: 2008
285.	Household and similar electrical appliances - electric immersion water heaters	Provision for earthing	Cl. 27 of IS 302: PART 2: SEC 201: 2008, Cl. 27 of IS 368: 2014 and Cl. 27 of IS 302: PART 1: 2008
286.	Household and similar electrical appliances - electric immersion water heaters	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 201: 2008, Cl. 28 of IS 368: 2014 and Cl. 28 of IS 302: PART 1: 2008
287.	Household and similar electrical appliances - electric immersion water heaters	Clearances, creepage distances and solid insulations	Cl. 29 of IS 302: PART 2: SEC 201: 2008, Cl. 29 of IS 368: 2014 and Cl. 29 of IS 302: PART 1: 2008
288.	Household and similar electrical appliances - electric immersion water heaters	Resistance to heat, fire and tracking	Cl. 30, 30.1 of IS 302: PART 2: SEC 201: 2008, Cl. 30 of IS 368: 2014 and Cl. 30 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
289.	Household and similar electrical appliances - electric immersion water heaters	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 201: 2008, Cl. 31 of IS 368: 2014 and Cl. 31 of IS 302: PART 1: 2008
290.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Classification	Cl. 6, 6.1 of IS 302: PART 2: SEC 13: 1994 and Cl. 6 of IS 302: PART 1: 2008
291.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Marking & instructions	Cl. 7, 7.1, 7.12, 7.101, 7.101.1 of IS 302: PART 2: SEC 13: 1994 and Cl. 7 of IS 302: PART 1: 2008
292.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Protection against access to live parts	Cl. 8 of IS 302: PART 2: SEC 13: 1994 and Cl. 8 of IS 302: PART 1: 2008
293.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Input and current	Cl. 10 of IS 302: PART 2: SEC 13: 1994 and Cl. 10 of IS 302: PART 1: 2008
294.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Temperature rise	Cl. 11, 11.2, 11.7, 11.8 of IS 302: PART 2: SEC 13: 1994 and Cl. 11 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
295.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Operation under overload conditions of appliances with heating elements	Cl. 12, 12.2 of IS 302: PART 2: SEC 13: 1994 and Cl. 12 of IS 302: PART 1: 2008
296.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Electrical insulation and leakage current at operating temperature	Cl. 13 of IS 302: PART 2: SEC 13: 1994 and Cl. 13 of IS 302: PART 1: 2008
297.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Radio and television interference suppression	Cl. 14 of IS 302: PART 2: SEC 13: 1994 and Cl. 14 of IS 302: PART 1: 2008
298.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Moisture resistance	Cl. 15, 15.1, 15.101 of IS 302: PART 2: SEC 13: 1994 and Cl. 15 of IS 302: PART 1: 2008
299.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Insulation resistance and electrical strength (after flexibility treatment)	Cl. 16, 16.2 of IS 302: PART 2: SEC 13: 1994 and Cl. 16 of IS 302: PART 1: 2008
300.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Overload protection	Cl. 17 of IS 302: PART 2: SEC 13: 1994 and Cl. 17 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
301.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Abnormal operation	Cl. 19, 19.1, 19.2, 19.3, 19.11 of IS 302: PART 2: SEC 13: 1994 and Cl. 19 of IS 302: PART 1: 2008
302.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Stability and mechanical hazards	Cl. 20 of IS 302: PART 2: SEC 13: 1994 and Cl. 20 of IS 302: PART 1: 2008
303.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Mechanical strength	Cl. 21, 21.1, of IS 302: PART 2: SEC 13: 1994 and Cl. 21 of IS 302: PART 1: 2008
304.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Construction	Cl. 22, 22.1, 22.26, 22.101, 22.102, 22.103 of IS 302: PART 2: SEC 13: 1994 and Cl. 22 of IS 302: PART 1: 2008
305.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Internal wiring	Cl. 23 of IS 302: PART 2: SEC 13: 1994 and Cl. 23 of IS 302: PART 1: 2008
306.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Components	Cl. 24, 24.1 of IS 302: PART 2: SEC 13: 1994 and Cl. 24 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
307.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Supply connection & external flexible cables & cords	Cl. 25, 25.2, 25.6, 25.10 of IS 302: PART 2: SEC 13: 1994 and Cl. 25 of IS 302: PART 1: 2008
308.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Terminals for external conductors	Cl. 26 of IS 302: PART 2: SEC 13: 1994 and Cl. 26 of IS 302: PART 1: 2008
309.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Provision for earthing	Cl. 27 of IS 302: PART 2: SEC 13: 1994 and Cl. 27 of IS 302: PART 1: 2008
310.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 13: 1994 and Cl. 28 of IS 302: PART 1: 2008
311.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Clearances, creepage distances and solid insulations	Cl. 29 of IS 302: PART 2: SEC 13: 1994 and Cl. 29 of IS 302: PART 1: 2008
312.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Resistance to heat and fire	Cl. 30 of IS 302: PART 2: SEC 13: 1994 and Cl. 30 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
313.	Household and similar electrical appliances- frying pans, deep fat fryers and similar appliances	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 13: 1994 and Cl. 31 of IS 302: PART 1: 2008
314.	Household and similar electrical appliances- appliances for skin or hair care	Classification	Cl. 6, 6.1, 6.2 of IS 302: PART 2: SEC 23: 2009 and Cl. 6 of IS 302: PART 1: 2008
315.	Household and similar electrical appliances- appliances for skin or hair care	Marking & instructions	Cl. 7, 7.1, 7.6, 7.12, 7.12.1, 7.14, 7.101 of IS 302: PART 2: SEC 23: 2009 and Cl. 7 of IS 302: PART 1: 2008
316.	Household and similar electrical appliances- appliances for skin or hair care	Protection against access to live parts	Cl. 8, 8.1.3 of IS 302: PART 2: SEC 23: 2009 and Cl. 8 of IS 302: PART 1: 2008
317.	Household and similar electrical appliances- appliances for skin or hair care	Power Input and current	Cl. 10 of IS 302: PART 2: SEC 23: 2009 and Cl. 10 of IS 302: PART 1: 2008
318.	Household and similar electrical appliances- appliances for skin or hair care	Heating	Cl. 11, 11.1, 11.2, 11.4, 11.6, 11.7, 11.8, 11.101 of IS 302: PART 2: SEC 23: 2009 and Cl. 11 of IS 302: PART 1: 2008
319.	Household and similar electrical appliances- appliances for skin or hair care	Leakage current and electric strength at operating temperature	Cl. 13 of IS 302: PART 2: SEC 23: 2009 and Cl. 13 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
320.	Household and similar electrical appliances- appliances for skin or hair care	Transient over voltage test	Cl. 14 of IS 302: PART 2: SEC 23: 2009 and Cl. 14 of IS 302: PART 1: 2008
321.	Household and similar electrical appliances- appliances for skin or hair care	Moisture resistance	Cl. 15 of IS 302: PART 2: SEC 23: 2009 and Cl. 15 of IS 302: PART 1: 2008
322.	Household and similar electrical appliances- appliances for skin or hair care	Leakage current and electric strength	Cl. 16 of IS 302: PART 2: SEC 23: 2009 and Cl. 16 of IS 302: PART 1: 2008
323.	Household and similar electrical appliances- appliances for skin or hair care	Overload protection of transformers and associated circuits	Cl. 17 of IS 302: PART 2: SEC 23: 2009 and Cl. 17 of IS 302: PART 1: 2008
324.	Household and similar electrical appliances- appliances for skin or hair care	Abnormal operation	Cl. 19, 19.1, 19.2, 19.7, 19.9, 19.10, 19.101, 19.102 of IS 302: PART 2: SEC 23: 2009 and Cl. 19 of IS 302: PART 1: 2008
325.	Household and similar electrical appliances- appliances for skin or hair care	Stability and mechanical hazards	Cl. 20 of IS 302: PART 2: SEC 23: 2009 and Cl. 20 of IS 302: PART 1: 2008
326.	Household and similar electrical appliances- appliances for skin or hair care	Mechanical strength	Cl. 21, 21.101 of IS 302: PART 2: SEC 23: 2009 and Cl. 21 of IS 302: PART 1: 2008
327.	Household and similar electrical appliances- appliances for skin or hair care	Construction	Cl. 22, 22.24, 22.32, 22.36, 22.40, 22.101, 22.102 of IS 302: PART 2:

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	Domestic Electrical Appliances		
			SEC 23: 2009 and Cl. 22 of IS 302: PART 1: 2008
328.	Household and similar electrical appliances- appliances for skin or hair care	Internal wiring	Cl. 23, 23.3 of IS 302: PART 2: SEC 23: 2009 and Cl. 23 of IS 302: PART 1: 2008
329.	Household and similar electrical appliances- appliances for skin or hair care	Components	Cl. 24, 24.1.3, 24.2 of IS 302: PART 2: SEC 23: 2009 and Cl. 24 of IS 302: PART 1: 2008
330.	Household and similar electrical appliances- appliances for skin or hair care	Supply connection & external flexible cords	Cl. 25, 25.5, 25.7, 25.14, 25.15, 25.101 of IS 302: PART 2: SEC 23: 2009 and Cl. 25 of IS 302: PART 1: 2008
331.	Household and similar electrical appliances- appliances for skin or hair care	Terminals for external conductors	Cl. 26, 26.10 of IS 302: PART 2: SEC 23: 2009 and Cl. 26 of IS 302: PART 1: 2008
332.	Household and similar electrical appliances- appliances for skin or hair care	Provision for earthing	Cl. 27 of IS 302: PART 2: SEC 23: 2009 and Cl. 27 of IS 302: PART 1: 2008
333.	Household and similar electrical appliances- appliances for skin or hair care	Screws and connections	Cl. 28 of IS 302: PART 2: SEC 23: 2009 and Cl. 28 of IS 302: PART 1: 2008
334.	Household and similar electrical appliances- appliances for skin or hair care	Clearances, creepage distances and solid insulation	Cl. 29, 29.3 of IS 302: PART 2: SEC 23: 2009 and Cl. 29 of IS 302: PART 1: 2008

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Quality And Accreditation Institute

Centre for International Accreditation

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Scope of Accreditation

Alaipuria Test House Private Limited

Plot No. H-11, Durga Industrial Park, Sahibabad,
Ghaziabad-201005, Uttar Pradesh, India

QAI/CIA/TL/2024/0063

Valid from: 02 July 2024

Valid until: 01 July 2026

Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
335.	Household and similar electrical appliances- appliances for skin or hair care	Resistance to heat and fire	Cl. 30, 30.1, 30.2, 30.101 of IS 302: PART 2: SEC 23: 2009 and Cl. 30 of IS 302: PART 1: 2008
336.	Household and similar electrical appliances- appliances for skin or hair care	Resistance to rusting	Cl. 31 of IS 302: PART 2: SEC 23: 2009 and Cl. 31 of IS 302: PART 1: 2008
337.	Mineral filled sheathed heating elements	Classification	Cl. 6 of IS 4159: 2021 and Cl. 6 of IS 302: PART 1: 2008
338.	Mineral filled sheathed heating elements	Marking & instructions	Cl. 7, 7.1, 7.2, 7.3 of IS 4159: 2021 and Cl. 7 of IS 302: PART 1: 2008
339.	Mineral filled sheathed heating elements	Protection against access to live parts	Cl. 8 of IS 4159: 2021 and Cl. 8 of IS 302: PART 1: 2008
340.	Mineral filled sheathed heating elements	Power Input and current	Cl. 10 of IS 4159: 2021 and Cl. 10 of IS 302: PART 1: 2008
341.	Mineral filled sheathed heating elements	Heating	Cl. 11, 11.2, 11.101 of IS 4159: 2021 and Cl. 11 of IS 302: PART 1: 2008
342.	Mineral filled sheathed heating elements	Leakage current and electric strength at operating	Cl. 13 of IS 4159: 2021 and Cl. 13 of IS 302: PART 1: 2008
343.	Mineral filled sheathed heating elements	Transient over voltage test	Cl. 14 of IS 4159: 2021 and Cl. 14 of IS 302: PART 1: 2008
344.	Mineral filled sheathed heating elements	Moisture resistance	Cl. 15, 15.2 of IS 4159: 2021 and Cl. 15 of IS 302: PART 1: 2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
345.	Mineral filled sheathed heating elements	Leakage current and electric strength	Cl. 16 of IS 4159: 2021 and Cl. 16 of IS 302: PART 1: 2008
346.	Mineral filled sheathed heating elements	Endurance	Cl. 18, 18.1 of IS 4159: 2021 and Cl. 18 of IS 302: PART 1: 2008
347.	Mineral filled sheathed heating elements	Abnormal operation	Cl. 19 of IS 4159: 2021 and Cl. 19 of IS 302: PART 1: 2008
348.	Mineral filled sheathed heating elements	Stability and mechanical hazards	Cl. 20, 20.1 of IS 4159: 2021 and Cl. 20 of IS 302: PART 1: 2008
349.	Mineral filled sheathed heating elements	Mechanical strength	Cl. 21 of IS 4159: 2021 and Cl. 21 of IS 302: PART 1: 2008
350.	Mineral filled sheathed heating elements	Construction	Cl. 22, 22.101, 22.102, 22.103, 22.104, 22.105, 22.106, 22.107, 22.108, 22.109, 22.110, 22.111,
351.	Mineral filled sheathed heating elements	Internal wiring	Cl. 23 of IS 4159: 2021 and Cl. 23 of IS 302: PART 1: 2008
352.	Mineral filled sheathed heating elements	Components	Cl. 24, 24.2 of IS 4159: 2021 and Cl. 24 of IS 302: PART 1: 2008
353.	Mineral filled sheathed heating elements	Supply connection & external flexible cables & cords	Cl. 25, 25.1 of IS 4159: 2021 and Cl. 25 of IS 302: PART 1: 2008
354.	Mineral filled sheathed heating elements	Terminals for external conductors	Cl. 26 of IS 4159: 2021 and Cl. 26 of IS 302: PART 1: 2008
355.	Mineral filled sheathed heating elements	Provision for earthing	Cl. 27 of IS 4159: 2021 and Cl. 27 of IS 302: PART 1: 2008



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
356.	Mineral filled sheathed heating elements	Screws and connections	Cl. 28 of IS 4159: 2021 and Cl. 28 of IS 302: PART 1: 2008
357.	Mineral filled sheathed heating elements	Clearances, creepage distances and solid insulation	Cl. 29 of IS 4159: 2021 and Cl. 29 of IS 302: PART 1: 2008
358.	Mineral filled sheathed heating elements	Resistance to heat and fire	Cl. 30 of IS 4159: 2021 and Cl. 30 of IS 302: PART 1: 2008
359.	Mineral filled sheathed heating elements	Resistance to rusting	Cl. 31 of IS 4159: 2021 and Cl. 31 of IS 302: PART 1: 2008

