

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

#### **Ekopro Engineers Private Limited**

32/37, South side of GT Road, UPSIDC Industrial Area,  
Ghaziabad-201009, 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/2025/0113**

Valid from: 24 April 2025

Valid until: 23 April 2027

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

**Prof. Vikram Kumar**  
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Metals &amp; Alloys</b>			
1.	Low Alloy Steel	Carbon	IS 228 (Part-1): 1987
2.		Chromium	IS 228 (Part-6): 1987
3.		Manganese	IS 228 (Part-2): 1987
4.		Phosphorus	IS 228 (Part-3): 1987
5.		Silicon	IS 228 (Part-8): 1989
6.		Sulphur	IS 228 (Part-9): 1989
7.		Nickel	IS 228 (Part-5): 1987
8.	Stainless Steel	Nickel	IS 228 (Part-5): 1987
9.		Copper	IS 228 (Part-15): 1992
10.		Carbon	IS 228 (Part-1): 1987
11.		Chromium	IS 228 (Part-6): 1987
12.		Manganese	IS 228 (Part-2): 1987
13.		Molybdenum	IS 228 (Part-7): 1990
14.		Phosphorus	IS 228 (Part-3): 1987
15.		Silicon	IS 228 (Part-8): 1989
16.		Sulphur	IS 228 (Part-9): 1989
17.	Cast Iron & Grey Iron	Carbon	ASTM E 1999/JIS G 1253
18.		Sulphur	ASTM E 1999/JIS G 1253
19.		Phosphorus	ASTM E 1999/JIS G 1253
20.		Silicon	ASTM E 1999/JIS G 1253

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Metals &amp; Alloys</b>			
21.	Cast Iron & Grey Iron	Chromium	ASTM E 1999/JIS G 1253
22.		Manganese	ASTM E 1999/JIS G 1253
23.		Nickel	ASTM E 1999/JIS G 1253
24.		Copper	ASTM E 1999/JIS G 1253
25.		Tin	ASTM E 1999/JIS G 1253
26.		Vanadium	ASTM E 1999/JIS G 1253
27.		Nitrogen	ASTM E 1999/JIS G 1253
28.		Titanium	ASTM E 1999/JIS G 1253
29.	Ferrous & Ferrous Alloy	Carbon	ASTME 415: 2021/IS 8811: 1998/JIS G 1253
30.		Silicon	ASTME 415: 2021/IS 8811: 1998/JIS G 1253
31.		Manganese	ASTME 415: 2021/IS 8811: 1998/JIS G 1253
32.		Phosphorus	ASTME 415: 2021/IS 8811: 1998/JIS G 1253
33.		Sulphur	ASTME 415: 2021/IS 8811: 1998/JIS G 1253
34.		Chromium	ASTME 415: 2021/IS 8811: 1998/JIS G 1253
35.		Molybdenum	ASTME 415: 2021/IS 8811: 1998/JIS G 1253

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Metals &amp; Alloys</b>			
36.	Ferrous & Ferrous Alloy	Nickel	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
37.		Copper	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
38.		Aluminium	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
39.		Titanium	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
40.		Vanadium	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
41.		Boron	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
42.		Niobium	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
43.		Cobalt	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
44.		Nitrogen	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
45.		Arsenic	ASTME 415: 2021/IS 8811: 1998/JIS G 1253	
46.		Ferrous & Ferrous Alloy (Stainless Steel)	Carbon	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
47.			Silicon	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
48.	Ferrous & Ferrous Alloy (Stainless Steel)	Manganese	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
49.		Phosphorus	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
50.		Sulphur	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
51.		Chromium	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
52.		Molybdenum	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
53.		Nickel	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
54.		Titanium	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
55.		Niobium	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
56.		Nitrogen	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
57.		Aluminium	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253
58.	Copper	ASTM E 1086: 2022/IS 9879:1998/JIS G 1253	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
59.	Copper & Copper Alloy	Copper	BS EN15079 2015
60.		Aluminium	BS EN15079 2015
61.		Arsenic	BS EN15079 2015
62.		Cadmium	BS EN15079 2015
63.		Bismuth	BS EN15079 2015
64.		Iron	BS EN15079 2015
65.		Lead	BS EN15079 2015
66.		Manganese	BS EN15079 2015
67.		Nickel	BS EN15079 2015
68.		Phosphorus	BS EN15079 2015
69.		Silicon	BS EN15079 2015
70.		Silver	BS EN15079 2015
71.		Zinc	BS EN15079 2015
72.		Oxygen	BS EN15079 2015
73.		Tin	BS EN15079 2015

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Metals &amp; Alloys</b>			
74.	Aluminium & Aluminium Alloy	Aluminium	ASTM E-1251:2017
75.		Chromium	ASTM E-1251:2017
76.		Copper	ASTM E-1251:2017
77.		Iron	ASTM E-1251:2017
78.		Magnesium	ASTM E-1251:2017
79.		Manganese	ASTM E-1251:2017
80.		Nickel	ASTM E-1251:2017
81.		Lead	ASTM E-1251:2017
82.		Silicon	ASTM E-1251:2017
83.		Tin	ASTM E-1251:2017
84.		Vanadium	ASTM E-1251:2017
85.		Zirconium	ASTM E-1251:2017
86.		Zinc	ASTM E-1251:2017
87.		Titanium	ASTM E-1251:2017
88.		Door Handles	Aluminium
89.	Carbon		IS:12308(P-11)
90.	Chromium		IS:504(P-8)/IS:12308(P-8)/IS:228(P-6)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Metals &amp; Alloys</b>		
91.	Door Handles	Copper	IS:440/IS:504(P-3)
92.		Iron	IS:440/IS:504(P-2)
93.		Lead	IS:440/IS:504(P-1)
94.		Magnesium	ASTM E 1999/IS:504(P-6)
95.		Manganese	IS:12308(P-10)/IS:504(P-5)
96.		Nickel	IS:440/IS:504(P-7)/IS:12308(P-7)
97.		Ni-Cr-Plated	IS:1068-1993
98.		Phosphorus	IS:12308(P-5)/IS:440, IS 228(P-3)
99.		Silicon	IS:504(P-1)/IS:12308(P-6)
100.		Sulphur	BS EN 15079, IS 228 Part 9
101.		Tin	IS:440/IS:504(P-9)
102.		Titanium	IS:504(P-11)
103.		Zinc	IS:504(P-5)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Materials</b>		
1.	OPC Cement	Iron Oxide	IS 4032 (Clause 4.5): 1985
2.		Alumina	IS 4032 (Clause 4.6): 1985
3.		Combined ferric oxide and Alumina	IS 4032 (Clause 4.4): 1985
4.		Calcium Oxide	IS 4032 (Clause 4.7.1,4.7.2): 1985
5.	Cement (OPC/PPC)	Loss on Ignition	IS 4032 (Clause 4.2): 1985
6.		Magnesium Oxide	IS 4032 (Clause 4.8.1): 1985
7.	OPC Cement	Silica	IS 4032 (Clause 4.3): 1985
8.	Cement (OPC/PPC)	Sulphuric Anhydride	IS 4032 (Clause 4.9): 1985
9.		Total Chloride	IS 4032 (Clause 4.13): 1985
10.		Insoluble Residue	IS 4032 (Clause 4.10): 1985
11.		Alkali Content	IS 4032 (Clause 4.11): 1985
12.	Admixture	Ash Content	IS 9103 (Annex E, Clause E-2): 1999
13.		Chloride Ion content	IS 6925 (Clause 3): 1999
14.		Dry Material Content	IS 9103 (Annex E, Clause E-1): 1999
15.		pH value	IS 9103 (Annex E, Clause E-5): 1999
16.		Relative Density	IS 9103 (Annex E, Clause E-3): 1999
17.	Fly Ash	Calcium Oxide	IS 1727 (Clause 5.8): 1967
18.		Combined Ferric Oxide and Alumina Oxide	IS 1727 (Clause 5.5): 1967

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Materials</b>		
19.	Fly Ash	Loss on Ignition	IS 1727 (Clause 5.3): 1967
20.		Magnesium Oxide	IS 1727 (Clause 5.9): 1967
21.		Silica	IS 1727 (Clause 5.4): 1967
22.		Sulphur Trioxide	IS 1727 (Clause 5.10): 1967
23.		Alkali Content	IS 4032 (Clause 4.11): 1985
24.		Total Chloride	IS 4032 (Clause 4.13): 1985
25.	Coarse Aggregate / Fine Aggregate	Dissolved Silica	IS 2386 (Part-7, Clause 3): 1963
26.		Reduction in Alkalinity	IS 2386 (Part-7, Clause 3): 1963
27.		Total Sulphate Content	BS EN 1744 (Part 1): 1988
28.		Acid Soluble Chloride Content	BS EN 1744 (Part 1): 1988
29.		Total Alkali content	IS 4032 (Clause 4.11): 1985
30.	Water for Construction Purpose	Acidity (Volume Of 0.02N- NaOH TO Neutralize 100 ml of Water)	IS 3025 (Part-22, Clause 9.2): 2024
31.		Alkalinity (Volume of 0.02 N- NaOH to Neutralize 100 ml of Water)	IS 3025 (Part-23, Clause 10.1): 2023
32.		Chloride Content	IS 3025 (Part-32, Clause 2): 1988
33.		Inorganic Solid	IS 3025 (Part-18): 2022
34.		Organic Solid	IS 3025 (Part-18): 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building Materials</b>		
35.	Water for Construction Purpose	pH	IS 3025 (Part-11, Annex D): 2022
36.		Sulphate	IS 3025 (Part-24/Section 1): 2022
37.		Suspended Matter	IS 3025 (Part-17): 2022
38.	Galvanized Steel Sheet/Wire	Mass of Zinc Coating	IS 6745: 1972
39.		Uniformity of Zinc Coating	IS 2633: 1986
40.	Retention of Preservative in Wood & Its Allied Product	Chromium	IS 2753 (Part-1): 1991
41.		Boron	IS 2753 (Part-1): 1991
42.		Zinc	IS 2753 (Part-1): 1991
43.		Copper	IS 2753 (Part-1): 1991
44.	Retention of Preservative in Wood & Its Allied Product	Arsenic	IS 2753 (Part-1): 1991
45.	Synthetic Resin Adhesives for Plywood	Acidity and Alkalinity (pH)	IS 848: 2006
46.	Formaldehyde Content in Wood & Its Allied Product	Formaldehyde Content	IS 13745: 2020



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
1.	Plywood & its allied products	Quality requirements	IS 303: 2024/IS: 5509-2021
2.		Length	IS 303: 2024 /IS: 1659-2004/IS: 710-2010/IS: 1328-1996/IS: 4990: 2024/IS: 5509-2021/IS: 3087-2005/IS: 2380(P-2)/IS: 12406: 2021/IS 12823: 2015/IS 14587: 2023
3.		Width	IS 303: 2024 /IS: 1659-2004/IS: 710-2010/IS: 1328-1996/IS: 4990: 2024/IS: 5509-2021/IS: 3087-2005/IS: 2380(P-2)/IS: 12406: 2021/IS 12823: 2015/IS 14587: 2024
4.		Edge straightness	IS 303: 2024 /IS: 1659-2004/IS: 710-2010/IS: 1328-1996/IS: 4990: 2024/IS: 5509-2021/IS: 3087-2005/IS: 2380(P-2)/IS: 12406: 2021/IS 12823: 2015/IS 14587: 2025
5.		Thickness	IS 303: 2024 /IS: 1659-2004/IS: 710-2010/IS: 1328-1996/IS: 4990: 2024/IS: 5509-2021/IS: 3087-2005/IS: 2380(P-2)/IS: 12406: 2021/IS 12823: 2015/IS 14587: 2026
6.		Squareness	IS 303: 2024 /IS: 1659-2004/IS: 710-2010/IS: 1328-1996/IS: 4990: 2024/IS: 5509-2021/IS: 3087-



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wood and Wood Products		
			2005/IS: 2380(P-2)/IS: 12406: 2021/IS 12823: 2015/IS 14587: 2027
7.	Block Board	Dimensional Changes Caused by Humidity	IS 1659: 2004
8.		Modulus of Elasticity	IS 1659: 2004
9.		Modulus of Rupture	IS 1659: 2004
10.		Mycological Test	IS 1659: 2004
11.		Resistance to Water	IS 1659: 2004
12.		Spot Test	IS 1659: 2004
13.		Thickness Variation	IS 1659: 2004
14.		Adhesion of Plies	IS 1659: 2004
15.	Fire Retardant Plywood	Flame Penetration	IS 1734 (Part-3): 1983
16.		Flammability	IS 1734 (Part-3): 1983
17.		Moisture Content	IS 1734 (Part-1): 1983
18.		Rate of Burning	IS 1734 (Part-3): 1983
19.		Static Bending Strength Modulus of Elasticity	IS 1734 (Part-11): 1983
20.		Static Bending Strength Modulus of rupture	IS 1734 (Part-11): 1983
21.		Water Resistant Test	IS 1734 (Part-6): 1983

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Wood and Wood Products</b>			
22.	Marine Plywood	Glue adhesion in dry state adhesion of plies	IS 1734 (Part-4 & 5): 1983	
23.		Glue adhesion in dry state glue shear strength	IS 1734 (Part-4&5): 1983	
24.		Moisture Content	IS 1734 (Part-1): 1983	
25.		Mycological Test Adhesion Of Plies	IS 1734 (Part-5): 1983	
26.		Mycological Test Glue Shear Strength	IS 1734 (Part-4): 1983	
27.		Static Bending Strength Modulus of Elasticity	IS 1734 (Part-11): 1983	
28.		Water Resistance Test Adhesion Of Plies	1734 (Part-5): 1983	
29.		Water Resistance Test Glue Shear Strength	IS 1734 (Part-4): 1983	
30.		Wet Bending Strength Modulus of Elasticity	IS 1734 (Part-11): 1983	
31.		Wet Bending Strength Modulus of Rupture	IS 1734 (Part-11): 1983	
32.		Static bending Strength Modulus of Rupture	IS 1734 (Part-11): 1983	
33.		Plywood for General Purpose	Adhesion of Plies	IS 1734 (Part-5): 1983
34.			Modulus of Elasticity	IS 1734 (Part-11): 1983

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	<b>Wood and Wood Products</b>		
35.	Plywood for General Purpose	Modulus of Rupture	IS 1734 (Part-11): 1983
36.		Moisture Content	IS 1734 (Part-1): 1983
37.		Mycological Test	IS 1734 (Part-7): 1983
38.		Quality Requirements	IS 303: 2024
39.		Water Resistance Test	IS 1734 (Part-6): 1983
40.	Plywood for concrete shuttering works	Glue Adhesion in Dry State Adhesion of Plies	IS 1734 (Part-5): 1983
41.		Glue Adhesion in Dry State Glue Shear Strength	IS 1734 (Part-4): 1983
42.		Moisture Content	IS 1734 (Part-1): 1983
43.		Mycological Test Glue Shear Strength	IS 1734 (Part-4): 1983
44.		Plywood With Plastic Coating or With Suitable Overlay	IS 4990: 2024
45.		Resistance to Water Test Adhesion of Plies	IS 1734 (Part-5): 1983
46.		Resistance to Water Test Glue Shear Strength	IS 1734 (Part-4): 1983
47.		Squareness	IS 4990: 2024
48.		Static Bending Strength Modulus of Elasticity	IS 1734 (Part-11): 1983
49.		Static Bending Strength Modulus of Rupture	IS 1734 (Part-11): 1983

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Eko Pro Engineers Private Limited**

32/37, South Side of GT Road, UPSIDC Industrial Area  
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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
50.	Plywood for concrete shuttering works	Tensile strength	IS 1734 (Part-9): 1983
51.		Wet Bending Strength Modulus of Elasticity	IS 1734 (Part-11): 1983
52.		Wet Bending Strength Modulus of Rupture	IS 1734 (Part-11): 1983
53.	Veneered Decorative Plywood	Moisture Content	IS 1734 (Part-1): 1983
54.		Water Resistance Test	IS 1734 (Part-6): 1983
55.	Flush Door shutter	Dimension & Tolerance (a) Height	IS 4020 (Part-2): 1998
56.		Dimension & Tolerance (c) Width	IS 4020 (Part-2): 1998
57.		Dimension & Tolerance (b) Thickness	IS 4020 (Part-2): 1998
58.		End Immersion Test	IS 4020 (Part-13): 1998
59.		Glue Adhesion	IS 4020 (Part-15): 1998
60.		Knife Test	IS 4020 (Part-14): 1998
61.		Squareness	IS 4020 (Part-2): 1998
62.		Flatness	IS 4020 (Part-3): 1998
63.		Local Planeness Test	IS 4020 (Part-4): 1998
64.		Impact Indentation Test	IS 4020 (Part-5): 1998
65.		Flexure Test	IS 4020 (Part-6): 1998
66.		Edge Loading Test	IS 4020 (Part-7): 1998
67.		Shock Resistance Test	IS 4020 (Part-8): 1998
68.		Buckling Resistance Test	IS 4020 (Part-9): 1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
<b>Wood and Wood Products</b>			
69.	Flush Door shutter	Slamming Test	IS 4020 (Part-10): 1998
70.		Misuse Test	IS 4020 (Part-11): 1998
71.		Varying Humidity Test	IS 4020 (Part-12): 1998
72.		Screw Withdrawal Resistance Test	IS 4020 (Part-16): 1998
73.	Particle Board of Wood and Other Lignocellulosic Material	Density	IS 2380 (Part 3): 1977
74.		Moisture Content	IS 2380 (Part 3): 1977
75.		Water Absorption	IS 2380 (Part 16): 1977
76.		Swelling in Water	IS 2380 (Part 17): 1977
77.		Swelling Due to Surface Absorption	IS 2380 (Part 17): 1977
78.		Modulus of Rupture	IS 2380 (Part 4): 1977
79.		Modulus of Elasticity	IS 2380 (Part 4): 1977
80.		Tensile Strength Perpendicular to Surface	IS 2380 (Part 5): 1977
81.		Tensile Strength Perpendicular to Surface After Ageing	IS 2380 (Part 5): 1977
82.		Screw Withdrawal Strength	IS 2380 (Part 14): 1977
83.	Prelaminated Particle Boards from Wood and other Lignocellulosic Material	Density	IS 2380 (Part 3): 1977
84.		Moisture Content	IS 2380 (Part 3): 1977
85.		Water Absorption	IS 2380 (Part 16): 1977
86.		Swelling in Water	IS 2380 (Part 17): 1977

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Wood and Wood Products</b>			
87.	Prelaminated Particle Boards from Wood and other Lignocellulosic Material	Swelling Due to Surface Absorption	IS 2380 (Part 17): 1977	
88.		Modulus of Rupture	IS 2380 (Part 4): 1977	
89.		Modulus of Elasticity	IS 2380 (Part 4): 1977	
90.		Tensile Strength Perpendicular to Surface	IS 2380 (Part 5): 1977	
91.		Tensile Strength Perpendicular to Surface After Ageing	IS 2380 (Part 5): 1977	
92.		Screw Withdrawal Strength	IS 2380 (Part 14): 1977	
93.		Abrasion Resistance	IS 12823: 2015	
94.		Resistance to Steam	IS 12823: 2015	
95.		Crack Resistance	IS 12823: 2015	
96.		Resistance to Cigarette Burn	IS 12823: 2015	
97.		Resistance to Stain	IS 12823: 2015	
98.		Medium Density Fibre Boards for General Purpose	Density	IS 2380 (Part 3): 1977
99.			Moisture Content	IS 2380 (Part 3): 1977
100.			Water Absorption	IS 2380 (Part 16): 1977
101.	Swelling in Water		IS 2380 (Part 17): 1977	
102.	Swelling Due to Surface Absorption		IS 2380 (Part 17): 1977	
103.		Modulus of Rupture	IS 2380 (Part 4): 1977	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
104.	Medium Density Fibre Boards for General Purpose	Modulus of Elasticity	IS 2380 (Part 4): 1977
105.		Tensile Strength Perpendicular to Surface	IS 2380 (Part 5): 1977
106.		Tensile Strength Perpendicular to Surface After Ageing	IS 2380 (Part 5): 1977
107.		Screw Withdrawal Strength	IS 2380 (Part 14): 1977
108.	Prelaminated Medium Density Fibre Board	Density	IS 2380 (Part 3): 1977
109.		Moisture Content	IS 2380 (Part 3): 1977
110.		Water Absorption	IS 2380 (Part 16): 1977
111.		Swelling in Water	IS 2380 (Part 17): 1977
112.		Swelling Due to Surface Absorption	IS 2380 (Part 17): 1977
113.		Modulus of Rupture	IS 2380 (Part 4): 1977
114.		Modulus of Elasticity	IS 2380 (Part 4): 1977
115.		Tensile Strength Perpendicular to Surface	IS 2380 (Part 5): 1977
116.		Tensile Strength Perpendicular to Surface After Ageing	IS 2380 (Part 5): 1977
117.		Screw Withdrawal Strength	IS 2380 (Part 14): 1977
118.		Abrasion Resistance	IS 14587: 2023
119.		Resistance to Steam	IS 14587: 2023
120.		Crack Resistance	IS 14587: 2023
121.		Resistance to Cigarette Burn	IS 14587: 2023

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
122.	Prelaminated Medium Density Fibre Board	Resistance to Stain	IS 14587: 2023
123.	Synthetic Resin Adhesives for Plywood	Cyclic Test	IS 848: 2006
124.	Decorative Thermosetting Synthetic Resin Bonded Laminated Sheets	Thickness	IS 2046:1995
125.		Appearance	IS 2046:1995
126.		Warping	IS 2046:1995
127.		Straightness Test	IS 2046:1995
128.		Squareness	IS 2046:1995
129.		Resistance To Wear	IS 2046:1995
130.		Resistance To Impact	IS 2046:1995
131.		Resistance To Scratch	IS 2046:1995
132.		Resistance To Immersion In Boiling Water	IS 2046:1995
133.		Resistance To Dry Heat 180°C	IS 2046:1995
134.		Dimensional Stability At Elevated Temperature	IS 2046:1995
135.		Dimensional Stability At 20°C temperature	IS 2046:1995
136.		Resistance To Impact By Small Diameter Ball	IS 2046:1995
137.		Resistance To Impact By Large Diameter Ball	IS 2046:1995

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wood and Wood Products</b>		
138.	Decorative Thermosetting Synthetic Resin Bonded Laminated Sheets	Resistance To Cracking	IS 2046:1995
139.		Resistance To Scratching	IS 2046:1995
140.		Resistance To Staining	IS 2046:1995
141.		Resistance To Change In Colour In Xenon Arc Light	IS 2046:1995
142.		Resistance To Change In Colour In Carbon Arc Light	IS 2046:1995
143.		Resistance To Cigarette Burn	IS 2046:1995
144.		flammability	IS 2046:1995
145.		Resistance To Blistering	IS 2046:1995
146.		Resistance To Steam	IS 2046:1995
147.		Resistance To Crazing	IS 2046:1995
148.		Resistance To Moisture	IS 2046:1995
149.		Fluxural Modulus	IS 2046:1995
150.		Fluxural Strength	IS 2046:1995
151.		Tensile Strength	IS 2046:1995



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
1.	Hardened Concrete	Compressive Strength	IS 516 (Part 1 / Sec 1) 2021
2.		Water Permeability	IS 516 (Part 2/Sec 1) 2018
3.	AAC Block	Block Density (Oven dry Condition)	IS 6441 (Part-1): 1972
4.		Compressive Strength	IS 6441 (Part-5): 1972
5.		Dimension (a) Length	IS 2185 (Part-3): 1984
6.		Dimension (b) Width	IS 2185 (Part-3): 1984
7.		Dimension (c) Height	IS 2185 (Part-3): 1984
8.		Thermal Conductivity	IS 3346:1980
9.		Drying Shrinkage	IS 6441 (Part-2): 1972
10.		Concrete Paving Block	Abrasion Resistance
11.	Compressive Strength		IS 15658: 2021
12.	Length		IS 15658: 2021
13.	Width		IS 15658: 2021
14.	Thickness		IS 15658: 2021
15.	Chamfer		IS 15658: 2021
16.	Squareness		IS 15658: 2021
17.	Wearing face area		IS 15658: 2021
18.	Plain Area		IS 15658: 2021
19.	Aspect Ratio		IS 15658: 2021
20.	Flexural Strength		IS 15658: 2021
21.	Tensile Splitting Strength	IS 15658: 2021	

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Building, Infrastructure and Construction Materials</b>			
22.	Concrete Paving Block	Water Absorption	IS 15658: 2021	
23.	Chequered Cement Concrete Tiles	Dimension (a) Length	IS 13801: 2013	
24.		Dimension (b) Width	IS 13801: 2013	
25.		Dimension (c) Thickness	IS 13801: 2013	
26.		Flatness of the Tile Surface	IS 13801: 2013	
27.		Perpendicularity	IS 13801: 2013	
28.		Straightness	IS 13801: 2013	
29.		Water Absorption	IS 13801: 2013	
30.		Wet Transverse Strength	IS 13801: 2013	
31.		Resistance to Wear	IS 13801: 2013	
32.		Thickness of Wearing Layer	IS 13801: 2013	
33.		Dimension (a) Length	IS 1237: 2012	
34.		Cement Concrete Flooring Tiles	Dimension (b) Width	IS 1237: 2012
35.		Cement Concrete Flooring Tiles	Dimension (c) Thickness	IS 1237: 2012
36.	Flatness of the Tile Surface		IS 1237: 2012	
37.	Perpendicularity		IS 1237: 2012	
38.	Straightness		IS 1237: 2012	
39.	Water Absorption		IS 1237: 2012	
40.	Wet Transverse Strength		IS 1237: 2012	
41.	Resistance to Wear		IS 1237: 2012	
42.	Thickness of Wearing Layer		IS 1237: 2012	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
43.	Common Burnt Clay Building Bricks	Dimension (b) Width	IS 1077: 1992
44.		Dimension (c) Height	IS 1077: 1992
45.		Dimension (a) Length	IS 1077: 1992
46.	Common Burnt Clay Building Bricks /Fuel Ash Lime Bricks	Compressive Strength	IS 3495 (Part-1): 2019
47.		Efflorescence	IS 3495 (Part-3): 2019
48.		Water Absorption	IS 3495 (Part-2): 2019
49.	Fuel Ash Lime Bricks	Dimension Test (a) Length	IS 12894: 2002
50.		Dimension Test (b) Width	IS 12894: 2002
51.		Dimension Test (c) Height	IS 12894: 2019
52.		Drying Shrinkage	IS 1199: 1959
53.		Compressive Strength	IS 516 (Part-1/Sec-1): 2021
54.	Admixture	Drying Shrinkage	IS 1199: 1959
55.		Flexural Strength	IS 516 (Part-1/Sec-1): 2021
56.		Slump/Loss of Workability	IS 1199 (Part 2 / Clause 4.3): 2018
57.		Water Content	IS 2386 (Part 3) : 1963
58.	Coarse Aggregate/Fine Aggregate	Sieve Analysis (IS Sieve Size:80,63,40,20, 16,12.5 10, 4.75, 2.36, 1.18, 0.600, 0.300, 0.150 mm)	2386 (Part-1): 1963

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
59.	Coarse Aggregate/Fine Aggregate (Crushed and uncrushed)	Bulk Density	2386 (Part 3): 1963
60.		Specific Gravity	IS 2386 (Part-3): 1963
61.		Water Absorption	IS 2386 (Part-3): 1963
62.		Soundness Test	IS 2386 (Part 5): 1963
63.		Coal and Lignite	2386 (Part 2): 1963
64.		Clay Lumps	2386 (Part 2): 1963
65.		Material finer than 75 micron IS Sieve	2386 (Part 1): 1963
66.	Coarse Aggregate (Uncrushed)	Soft Fragments	2386 (Part 2): 1963
67.	Coarse Aggregate/Fine Aggregate (Crushed and uncrushed)	Total Deleterious Material	383:2016
68.	Coarse Aggregate	10 % fines value	2386 (Part-4): 1963
69.		Abrasion Value	IS 2386 (Part 4 /Clause 5.3): 1963
70.		Crushing Value	2386 (Part-4): 1963
71.		Elongation Index	2386 (Part-1): 1963
72.		Flakiness Index	2386 (Part-1): 1963
73.		Impact Value	2386 (part-4): 1963
74.	Fine Aggregate	Organic Impurities	IS 2386 (Part-2): 1963
75.	Cement (OPC/PPC)	Compressive Strength (a) 72 ± 1 Hrs	IS 4031 (Part-6): 1988

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Building, Infrastructure and Construction Materials</b>		
76.	Cement (OPC/PPC)	Compressive Strength (b) 168 ± 2 Hrs	IS 4031 (Part-6): 1988
77.		Compressive Strength (c) 672 ± 4 Hrs	IS 4031 (Part-6): 1988
78.		Consistency	IS 4031 (Part-4): 1988
79.		Density	IS 4031 (Part-11): 1988
80.		Final Setting Time	IS 4031 (Part-5): 1988
81.		Fineness By Blaine air permeability apparatus	IS 4031 (Part-2): 1999
82.		Initial Setting Time	IS 4031 (Part-5): 1988
83.		Soundness By Autoclave Method	IS 4031 (Part-3): 1988
84.		Soundness By Le-Chattier Method	IS 4031 (Part-3): 1988
85.		Cement (PPC)	Drying Shrinkage
86.	Fly ash	Compressive Strength	IS 1727: 1967
87.		Fineness by Blaine air permeability	IS 1727: 1967
88.		Lime Reactivity	IS 1727: 1967
89.		Moisture Content	IS 3812 (Part-1): 2013
90.		Residue on 45 micron IS Sieve (Wet sieving)	IS 1727: 1967

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Building, Infrastructure and Construction Materials		
91.	Fly ash	Soundness (Autoclave method)	IS 1727: 1967
92.		Specific Gravity	IS 1727: 1967



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
1.	Wrought Aluminium and Its Allied Product	Tensile Test	IS 1608 Part 1:2022
2.		Proof Stress	IS 1608 Part 1:2022
3.		Yield Stress	IS 1608 Part 1:2022
4.		% Elongation	IS 1608 Part 1:2022
5.	Aluminium and Its Allied Product	Bend Test	IS 1599:2019
6.	Wrought Aluminium and Aluminium Alloy Bars, Rods and Sections for General Engineering Purposes	Dimensions And Tolerances	IS 3965:1981
7.	Wrought Aluminium and Aluminium Alloy Plate for General Engineering Purposes	Dimensions And Tolerances	IS 2677-1979
8.	Wrought Aluminium and Aluminium Alloy Sheet and Strip for General Engineering Purposes	Dimensions And Tolerances	IS 2676-1981
9.	Wrought Aluminium and Aluminium Alloys-Wire for General Engineering Purposes	Dimensions And Tolerances	IS 2525-1982
10.	Wrought Aluminium and Aluminium Alloy Rivet Stock	Dimensions And Tolerances	IS 3577:1992

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
	for General Engineering Purposes		
11.	Wrought Aluminium and Aluminium Alloy Rivet Stock for General Engineering Purposes	Head Forming Test	IS 740:1977
12.	Corrugated Aluminium Sheet	Dimensions And Tolerance	IS 2676-1981 / IS 1254:2007
13.	Wrought Aluminium and Aluminium Alloys - Extruded Round Tube and Hollow Sections for General Engineering Purposes	Dimensions And Tolerance	IS 2673:2002/IS 6477:1983
14.	Wrought Aluminium Wires for Electrical Purposes	Diameter	IS 2067:1975
15.		Tensile Test	IS 2067:1975
16.		% Elongation	IS 2067:1975
17.	Dimensions for Wrought Aluminium and Aluminium Alloys Extruded Round Tube	Standard Sizes	IS 2673:2002 /IS 6477:1983
18.	Wrought aluminium and aluminium alloy bars, rods, tubes, sections, plates and sheets for electrical applications (Second Revision)	Dimensional Tolerances	IS 5082:1998

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
19.	Wrought aluminium and aluminium alloys, Extruded Hollow Sections	Dimensional Tolerances	IS 6477:1983
20.	Aluminium Alloy Tubes for Irrigation Purposes Part I Welded Tubes	Dimensional Tolerances	IS 7092 PT 1:1992
21.	Aluminium Alloy Tubes for Irrigation Purposes Part I Welded Tubes	Flattening Test	IS 2826:1980
22.	Aluminium Alloy Tubes for Irrigation Purposes Part II Extruded Tubes	Dimensional Tolerances	IS 7092 PT 2:1992
23.	Aluminium Alloy Tubes for Irrigation Purposes Part II Extruded Tubes	Drift Expansion	IS 2335:1984
24.	Aluminium Alloy Forging Stock and Forgings (Alloy 24345) for Aerospace Applications	Dimensions And Tolerance	IS 7902:2001
25.	Hot Dip Aluminium-Zinc Alloy Metallic Coated Steel Strip	Dimensions Shape and Tolerance	IS 15961:2012/IS 16163
26.	and Sheet (Plain)	Coating Adhesion Test	IS 15961:2012
27.		Dimensions Shape and Tolerance	IS 15961:2012/IS 16163 :2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
28.	Pre-Painted Aluminium Zinc	Coating Adhesion Test	IS 15965:2012
29.	Alloy Metallic Coated Steel Strip and Sheet (Plain)	Pencil Hardness Test	IS 15965:2012
30.	Pre-Painted Aluminium Zinc Alloy Metallic Coated Steel Strip and Sheet (Plain)	Gloss (Optional)	IS 15965:2012
31.		Dry Film Thickness (Optimal)	IS 15965:2012
32.		Scratch Hardness Test	IS 15965:2012
33.		Corrosion Resistance Test	IS 9844:1981
34.		Humidity Resistance Test	IS 101 (Part-)/6 Sec-1
35.		High Rolled medium & High tensile Structural Steel and Its Allied Product	Tensile Test
36.	Yield Stress		IS 1608 Part 1:2022
37.	Charpy Impact Test		Is 1757 part1-2020
38.	% Elongation		IS 1608 Part 1:2022
39.	Steel and Its Allied Product	Tensile Load	IS 1608 Part 1:2022
40.		Tensile Strain Hardening	IS 15756:2022
41.	High Rolled medium & High tensile Structural Steel and Its Allied Product	Bend Test	IS 1599:2019
42.	Steel and Its Allied Product	Rockwell Hardness	S 1586 (Part 1): 2018
43.		Vicker Hardness	IS 1501 Part 1 & 2:2020
44.	Galvanized Steel Strips and	Bend Test	IS 277:2018
45.	Sheets (Plain and Corrugated)	Coating Test	IS 6745:1972

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
46.		Mass	IS 277:2018
47.		Dimensions And Tolerance	IS 277:2018
48.	Galvanized Steel Barbed Wire for Fencing	Size	IS 278:2009
49.		Size	IS 278:2009
50.		Ductility Test	IS 1755:2018
51.	Mild Steel Wire for General Engineering	Sizes	IS 280:2006
52.		Bend Test	IS 280:2006
53.	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement Part I Mild Steel and Medium Tensile Steel Bar	Size And Tolerance	IS 432 Part 1:1982/ IS 1852:1985
54.	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement Part I Mild Steel and Medium Tensile Steel Bar	Mass/Meter	IS 1732:1989
55.	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete	Nominal Size And Tolerance	IS 432 Part 2:1982

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
	Reinforcement Part II Hard Drawn Steel Wire		
56.	Cold Reduced Carbon Steel	Plastic Strain Ratio	IS 11999
57.	Sheet and Strip Part 1 Cold Forming and Drawing Purpose	Dimensions And Tolerance	IS 513 Part 1:2016/IS 16162:2012
58.	Cold Reduced Carbon Steel Sheet and Strip Part 2 High Tensile and Multi-phase Steel	Dimensions And Tolerance	IS 513 Part 2:2016/IS 16162:2012
59.	Hot Rolled Steel Strips (Bailing)	Dimensions And Tolerance	IS 1029:1970
60.	Hot Rolled Carbon Steel Sheet, Plate and Strip	Dimensions And Tolerance	IS 1079:2017/IS 1730:1989/ IS 16160:2005
61.		Cupping Test	IS 10175:2018
62.	Steel Butt Hinges	Dimensions And Tolerance	IS 1341:2018
63.	Mild Steel Wire, Cold Heading Quality	Crushing Test	IS 1673:1984
64.		Dimensions And Tolerance	IS 1673:1984
65.	Plain Hard Drawn Steel Wire for Prestressed Concrete	Nominal Size and Tolerance	IS 1785 Part 2:1983
66.	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement	Tensile Test	IS 1608 Part 1:2022
67.		Yield Stress	IS 1608 Part 1:2022
68.		% Elongation	IS 1608 Part 1:2022
69.		Mass per Meter	IS : 1786: 2008

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
70.		Bend Test	IS 1599: 2023
71.		Rebend Test	IS 1786:2008
72.		Pull Out Test	IS 2770 PART 1:1967
73.	Carbon Steel Wire for The Manufacture of Wood Screws	Size Tolerance	IS 1812:1982
74.		Bend Test	IS 1812:1982
75.	Round steel wire for ropes	Size and Dimensions	IS 1835:1976
76.		Tortion Test	IS 1717:2018
77.	Carbon Steel Billets, Blooms, Slabs and Bars for Forgings	Dimensions	IS 1875:1992`
78.	Specification for Cold Forged Solid Steel Rivets for Hot Closing (6 to 16mm Diameter)	Dimension	IS 10102:1982
79.		Shear Test	IS 10102:1982
80.		Head Soundness Test	IS 10102:1982
81.	Cold - rolled steel strips for springs	Tolerance	IS 2507:1975
82.		Tolerances On Edge Camber	IS 2507:1975
83.		Vicker Hardness	IS 1501 Part 1 & 2:2020
84.	Steel drums (galvanized and ungalvanized)	Capacity	IS 2552:1989
85.		Dimensions	IS 2552:1989
86.		Air Pressure Test	IS 2552:1989
87.		Handle Pull Out Test	IS 2552:1989
88.		Drop Test	IS 2552:1989
89.		Closure	IS 1784:1984

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
90.	Mild steel for metal arc welding electrodes	Dimensions	IS 2879:1988
91.		Tolerances	IS 2879:1988
92.	Steel Chequered Plate	Dimensions and Rolling Tolerances	IS 3502:2009
93.	Low carbon galvanized steel wires, formed wires and tapes for armouring of cables	Dimensions and Tolerances	IS 3975:1999
94.	Low carbon galvanized steel wires, formed wires and tapes for armouring of cables	Resistance Test	IS 10810 Part 42
95.	Steel Wire for Umbrella Ribs	Size	IS 4223:1979
96.	Steel Wire for Umbrella Ribs	Torsion Test	IS 1717:2018
97.		Straightness Test	IS 4223:1979
98.		Deflection Test	IS 4223:1979
99.	Steel Wire for Staple Pins and Clips	Size and Tolerance	IS 4324:1972
100.	Alloy steel billets, blooms and slabs for forging for general engineering purposes	Dimensions and Tolerances	IS 4368:1967
101.	Stainless Steel Sheets and Strips for Utensils	Dimensions and Tolerances	IS 5522:2914
102.		Cupping Test	IS 10175:2018

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
103.	Cold Rolled Steel Strips (Box Strappings)	Dimensions and Tolerances	IS 5872:1990
104.		Corrosion Resistance Test	IS 9844:1981
105.	Stainless Steel Wire Rods	Dimensions and Tolerances	IS 6527:1995
106.	Stainless Steel Wire	Resistance Test	IS 10461 Part 1 And Part 2:1994
107.	Stainless Steel Billets, Bloom and Slabs	Resistance Test	IS 10461 Part 1 And Part 2:1994
108.		Dimensions and Tolerances	IS 6529:1996
109.	Stainless Steel Bars and Flats	Dimensional Tolerance	IS 6603:2001
110.		Corrosion Test	IS 10461 Part 1 And Part 2:1994
111.	Steel Wires for Spokes	Wire Diameter and Tolerance	IS 6902:1973
112.		Bend Test	IS 1716:2023
113.	Stainless Steel Plate, Sheet and Strip	Dimensional Tolerance	IS 6911:2017
114.	Stainless Steel Plate, Sheet and Strip	Corrosion Test	IS 10461 Part 1 And Part 2:1994
115.		Erichson Cupping Test	IS 10175:2018
116.	Steel Wire (Up to 20mm) for the Manufacture of Cold-Forged Rivets	Shear Test	IS 10102:1982
117.		Dimensional Tolerance	IS 7557:1982
118.	Mild Steel Wire Rod for General Engineering Purposes	Size and Tolerance	7887:1992
119.	Steel Cast Billet Ignots, Billets and Blooms for Production of High Carbon Steel Wire Rods	Dimensions	IS 8951:2001

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
120.	Steel Ingots, Blooms and	Dimensions	IS 8952:1995
121.	Billets for Production of Mild	Macro Examination	IS 11371:1985
122.	Steel Wire Rods for General	Sulphur Print Test	IS 12037:1987
123.	Engineering Purposes	Inclusion Rating	IS 4163:1982
124.	Cold-Rolled Steel Strips for	Dimensions and Tolerances	IS 9476:1980
125.	Carbon Steel Razor Blades	Microstructure	IS 7739 Part 1 And 7739 Part 5:1976
126.	Heat Resisting Steels	Dimensions and Tolerances	IS 9516:1980
127.	Bright Steel Bars	Dimensions and Tolerances	IS 9550:2001
128.		Decarburization Test	IS 9550:2001
129.	Steel Wire for Needles	Size Of Wire	IS 9962:1981
130.		Decarburization Test	IS 9962:1981
131.	Fasteners - Threaded Steel	Dimension and Tolerance	IS 10238:2001
132.	Fasteners - Step Bolts for Steel Structures	Cantilever Test	IS 10238:2001
133.	Stainless Steel for Welding Electrode Core Wire	Size and Tolerance	IS 10631:1983
134.	Hot-Rolled Steel Strip for Welded Tubes and Pipes	Dimension and Tolerance	IS 1079:2017/IS 1730:1989/ IS 16160:2005
135.	Hot Rolled Carbon Steel Strip for Cold Rolling Purposes	Dimension and Tolerance	IS 11513:2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
136.	Fastener Threaded Steel	Dimension and Tolerance	IS 12427:2001
137.	Fasteners - Hexagon Head Transmission Tower Bolts	Shear Strength	IS 12427:2001
138.	Continuously Pre-Painted Galvanized Steel Sheets and Coils	Bend Test	IS 14246:2013
139.		Pencil Hardness Test	IS 14246:2013
140.		Impact Resistance	IS 14246:2013
141.		Cross Hatch Test	IS 14246:2013
142.	Continuously Pre-Painted Galvanized Steel Sheets and Coils	Appearance	IS 14246:2013/101 Pt 4 Sec-4
143.		Salt Spray Corrosion Test	IS 9844:1981
144.		Dimension Tolerance	IS 14246:2013
145.	Low Carbon High Strength Cold Rolled Steel Sheets and Coils for Cold Forming	Dimension and Tolerance	IS 14491:1997
146.	Hot Rolled Steel Narrow Width Strip for Welded Tubes and Pipes	Dimension and Tolerance	IS 15647:2006/IS 1852/IS 1079:2017/IS 1730:1989
147.		Cupping Test	IS 10175:2018
148.	Stainless Steel Tower Bolts	Dimension	IS 15833:2000
149.	High Tensile Strength Flat Rolled Steel Plate (UP To 6 mm), Sheet and Strip for The Manufacture of Welded Gas Cylinder	Dimension and Tolerance	IS 15914:2011/ IS 1730:1989 IS 16160 :2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
150.	Hot Dip Aluminium-Zinc Alloy	Dimension Shape and Tolerance	IS 15961:2012/IS 16163 :2012
151.	Metallic Coated Steel Strip and Sheet (Plain)	Coating Adhesion Test	IS 15961:2012
152.	Pre-Painted Aluminium Zinc Alloy Metallic Coated Steel Strip and Sheet (Plain)	Dimension Shape and Tolerance	IS 15961:2012/IS 16163 :2012
153.		Gloss	IS 15965:2012
154.		Dry Film Thickness	IS 15965:2012
155.		Corrosion Resistance Test	IS 9844:1981
156.		Humidity Resistance Test	IS 101 Part-6 Sec-1
157.	Low Nickel Austenitic Stainless-Steel Sheet and Strip for Utensils and Kitchen Appliances	Cupping Test	IS 10175:2018
158.	Hollow Steel Sections for Structural Use	Outside Dimension	IS 4923:2017
159.		Thickness	IS 4923:2018
160.		Concavity and Convexity	IS 4923:2019
161.		Squareness Of Side	IS 4923:2020
162.		Straightness and Twist	IS 4923:2021
163.		Weight	IS 4923:2022
164.		Flattening Test	IS 2328:2005
165.	Steel Pipes for Water and Sewage	Guided Bend Test	IS 3589:2001
166.		Dimension And Tolerance	IS 3589:2001
167.		Mass Per Meter Run	IS 3589:2001

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
168.	Steel Tubes Used for Water Well	Flattening Test	IS 2328:2005
169.		Dimensions (Thickness)	IS 4270:2001
170.		Dimensions (Outer dia.)	IS 4270:2001
171.		Mass Per Meter Run	IS 4270:2001
172.		Pipe Tube Ends	IS 4270:2001
173.		Alignment	IS 4270:2001
174.		Coating Test	IS 4270:2001
175.	Steel Tubes for Idlers for Belt Conveyors	Flattening Test	IS 2328:2018
176.		Drift Expansion	IS 2335:1984
177.	Steel Tubes for Idlers for Belt Conveyors	Weight	IS 9295:1983
178.		Ovality	IS 9295:1983
179.		Dimension Tolerances (Outer Dia.)	IS 9295:1983
180.		Straightness	IS 9295:1983
181.		Length	IS 9295:1983
182.	Composite Bottom Stainless-Steel Cooking Utensils	Adhesion Test	IS 15960: 2013
183.		Coating Thickness Test	IS 15960: 2013
184.		Staining Test	IS 15960: 2013
185.	Grey Iron Castings	Size	IS 210:2009
186.		Transverse Test	IS 210:2009

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
187.	Centrifugally cast (Spun) iron pressure pipes for water, gas and sewage	Size and Dimensions	IS 1536:2001
188.		Mass	IS 1536:2001
189.		Coating Test	IS 1536:2001
190.	Cast iron fittings for pressure pipes for water, gas and sewage	Size and Dimensions	IS 1538:2001
191.		Mass	IS 1538:2001
192.		Coating Test	IS 1538:2001
193.	Cast iron/ductile iron drainage pipes and pipe fittings for over ground non-pressure pipeline socket and spigot series	Masses	IS 1729:2002
194.	Cast iron/ductile iron drainage pipes and pipe fittings for over ground non-pressure pipeline socket and spigot series	Dimension And Tolerances	IS 1729:2002
195.		Hammer Test	IS 1729:2002
196.		Leakage Test	IS 1729:2002
197.		Coating Test	IS 1729:2002
198.	Specification for Horizontally Cast-Iron Double Flanged Pipes for Water, Gas and Sewage	Size and Mass	IS 1538:2001
199.		Permissible Deviation from Straightness	IS 7181:1986
200.		Coating Test	IS 7181:1986

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
201.	Centrifugally Cast (Spun) Ductile Iron Pressure Pipes for Water, Gas and Sewage	Tensile Strength Flange	IS 8329:2000
202.		Tensile Test	IS 8329:2000
203.		% Elongation	IS 1608 Part 1:2022
204.		Length	IS 8329:2000
205.		Internal Dia	IS 8329:2001
206.		Wall Thickness	IS 8329:2002
207.		External Diameter	IS 8329:2002
208.		Ovality	IS 8329:2000
209.		Deviation From Straight Line	IS 8329:2001
210.		Coating	IS 8329:2002
211.		Internal Lining	IS 8329:2003
212.	Ductile Iron Fittings for Pressure Pipes for Water, Gas and Sewage	Tensile Strength Flange	IS 9523:2000
213.		Tensile Test	IS 9523:2002
214.		% Elongation	IS 9523:2003
215.		Length	IS 9523:2006
216.		Internal Dia	IS 9523:2007
217.		Wall Thickness	IS 9523:2008
218.		External Diameter	IS 9523:2009
219.		Ovality	IS 9523:2010
220.		Deviation From Straight Line	IS 9523:2011
221.		Coating	IS 9523:2012
222.		Internal Lining	IS 9523:2013

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	<b>Mechanical Properties of Metals</b>		
223.	Free Cutting Brass Bars, Rods and Section	Dimension And Tolerances	IS 319:2007/IS 2826 : 1980
224.	Copper and its Allied Product	Tensile Test	IS 1608 Part 1:2022
225.		% Elongation	IS 1608 Part 1:2022
226.		Proof Stress	IS 1608 Part 1:2022
227.	High Tensile Brass Rods and Sections	Sizes and tolerance	IS 320:1980/IS 2826:1980
228.	Copper and its Allied Product	Vicker Hardness	IS 1501 Part 1 & 2:2020
229.		Bend Test	IS 1599:2019
230.	Cold Roll Brass Sheet Strip and Foil	Dimensions	IS 410:1977/ IS 3052:1986
231.		Dimensions	IS 410:1977/IS 3052:1986
232.	Brass Wires for General Eng Purposes	Dimension And Tolerances	IS 9861:1981
233.	Copper Rods and Bars for Electrical Purposes	Dimension And Tolerances	IS 613:2000
234.	Solid Drawn Copper and Copper Alloy Tubes for Condensers and Heat Exchangers	Dimension And Tolerances	IS 1545:1994 /5493:1981
235.		Flattening Test	2328:1983
236.		Drift Expansion	2326:1985
237.		Microscopic Examination	IS 4748:1988
238.		Mercurous Nitrate Test	IS 2305:1988
239.	Copper Strip for Electrical Purposes	Dimension And Tolerances	IS 1897:2008/IS 3052:1986

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
240.	Copper Strip for Electrical Purposes	Edge Wise Bending	IS 1897:2008/IS 3052:1986
241.		Conductivity	IS 1897:2008/IS 3052:1986
242.		Straightness	IS 1897:2008/IS 3052:1986
243.	Solid Drawn Copper Tubes for General Engineering Purposes	Dimension And Tolerances	IS 5493:1981
244.		Flattening and Doubling-Over Test	IS 2501:1995
245.		Drift Expansion	IS 2305:1988
246.		Microscopic Examination	IS 4748:1988
247.	Copper rods and bars for general engineering purposes	Dimension And Tolerances	IS 2826:1980
248.	Copper Wire for General Eng. Purposes	Dimension And Tolerances	IS 9861:1981
249.	Wrought Copper Tubes for Refrigeration and Air-Conditioning Purposes	Dimension And Tolerances	IS 10773:1995/ IS 5493:1981
250.		Flattening and Doubling-Over Test	IS 2501:1995
251.		Drift Expansion	IS 2305:1988
252.		Microscopic Examination	IS 4748:1988
253.		Residue Test	IS 10773:1995
254.	Copper Wire Rods for Electrical Applications	Dimension And Tolerances	IS 12444:2020
255.		Volume Resistivity	IS 12444:2020
256.	Copper Wire Rods for Electrical Applications	Surface Test (Optional)	IS 12444:2020

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Mechanical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Mechanical Properties of Metals</b>			
257.	Wrought and Cast Aluminium Utensils	Shape And Dimensions	IS 1660: 2024	
258.		Performance Test	IS 1660: 2024	
259.		Ground Nut Oil Test for Leakage	IS 1660: 2024	
260.		Fragmentation Test	IS 1660: 2024	
261.		Ball Drop Test	IS 1660: 2024	
262.		Thermal Shock Test	IS 1660: 2024	
263.		Free Fall Test	IS 1660: 2024	
264.		Glass lid with rim	IS 1660: 2024	
265.		Glass lid without rim	IS 1660: 2024	
266.		Bowl Locating Limits	IS 13983: 1994	
267.		Construction and Workmanship	IS 13983: 1994	
268.		Coordinating Size	IS 13983: 1994	
269.		Stainless Steel Sink for Domestic Purpose	Depth of Bowls	IS 13983: 1994
270.			Dimensions and Tolerances, Thickness of Sheet/Strip	IS 13983: 1994
271.	Finish		IS 13983: 1994	
272.	Internal Dimension of Bowl		IS 13983: 1994	
273.		Over-flows	IS 13983: 1994	
274.	Stainless Steel Sink for Domestic Purpose	Tap Holes	IS 13983: 1994	



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
275.	Domestic Gas stove for use with LPG	Materials	IS 4246, Amd- 5, Cl. 12, & 12.1Amd 4: 2002
276.		Burner Pan Supports	IS 4246, Amd- 5, Cl. 12, & 12.1Amd 4: 2002
277.		Surface of Glass or Glass Ceramic (a). General Verification of the Strength of the Gas Stove Surface of Toughened Glass Top Against Thermal Stress (b). Fragmentation Test of the Toughened Glass Stove Top	IS 4246, Cl. 5.1, 15.1, 15.2, Amd 4: 2002
278.		Burners	IS 5116, Cl. 10: 2020
279.		Combustion	IS 4246:2002, Amd 5: 2002
280.		Design For Maintenance	IS 4246, Cl 6 to 6.6: 2002
281.		Fire Hazard & Limiting Temp.	IS 4246, Amd-5 Cl 25:2002
282.		Fire Hazard & Limiting Temp.	IS 5116: 2020
283.		Flame stability	IS 4246, Cl.19 to 19.3:2002
284.		Flash Back	IS 4246, Amd-5, cl 21:2002
285.		Formation of Soot	IS 4246, Amd-5, Cl 22:2002
286.		Gas Consumption	IS 4246 cl 17.1 to 17.2, Amd-5: 2002

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
287.	Domestic Gas stove for use with LPG	Gas Inlet Connection	IS 4246, Cl. 14 to 41.2: 2002 / IS 5116 cl 18.0 to 18.4: 2020
288.		Gas Leak Detector	IS 4246, Cl. 13.2, Amd 4: 2002 / IS 13432(P-1), Amd 1:1992 / IS 13432 (P-2):1998
289.		Gas Soundness	IS 4246, Cl 13: 2002 / IS 5116, Cl. 16: 2020
290.		Gas Tap	IS 4246, Amd- 5, Cl. 9: 2002 / IS 5116, Cl. 8 to 8.12: 2020
291.		General	IS 4246, Amd-5, Cl-4.0,4.1,4.1.1: 2002 / IS 5116 cl 4 :2020
292.		Ignition and Flame Travel	IS 4246, Cl.18,18.4, Amd- 5: 2002
293.		Injector Jets, Across Flats, Projection Threads	IS 4246: 2002 / IS:5116, Cl. 9:2020
294.		Materials (Ageing, Flashback)	IS 4246, Cl. 5, Amd 5: 2002
295.		Materials (Change in Weight & Volume)	IS 5116, Cl 5.0 to 5.7: 2020 / IS:2305, Cl. 3:1988
296.		Noise Control	IS 4246, Amd - 5, Cl-20, 2002

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
297.	Domestic Gas stove for use with LPG	Resistance to Draught	IS 4246, Amd "5, Cl.23: 2002
298.		Rigidity and Stability	IS 4246, Amd "5, Cl-7,7.1 to 7.3: 2002
299.		Strength and Rigidity	IS 4246, Amd "5, Cl.15: 2002
300.		Thermal Efficiency	IS 4246, Amd "5, Cl. 26: 2002
301.		Workmanship and Finish	IS 4246, Amd "5, Cl-8.1 to 8.3: 2002
302.		Workmanship and Finish	IS 5116, Cl-7 to 7.7: 2020
303.	Domestic gas stoves for use with piped natural gas (PNG)	Burners	IS 17153: 2019
304.		Combustion	IS 17153: 2019
305.		Design for Maintenance	IS 17153: 2019
306.		Fire Hazard and Limiting Temperature	IS 17153: 2019
307.		Flame Stability	IS 17153: 2019
308.		Flash Back	IS 17153: 2019
309.		Formation of Soot	IS 17153: 2019
310.		Gas Consumption	IS 17153: 2019
311.		Gas Inlet Connections	IS 17153: 2019
312.		Gas Taps	IS 17153: 2019
313.		General	IS 17153: 2019
314.		Ignition and Flame Travel	IS 17153: 2019
315.		Injector Jets	IS 17153: 2019
316.		Noise Control	IS 17153: 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
317.	Domestic gas stoves for use with piped natural gas (PNG)	Pan Support	IS 17153: 2019
318.		Resistance to Draught	IS 17153: 2019
319.		Rigidity and Stability	IS 17153: 2019
320.		Strength and Rigidity	IS 17153: 2019
321.		Thermal Efficiency	IS 17153: 2019
322.		Workmanship and Finish	IS 17153: 2019
323.		Gas Taps	IS 17153: 2019
324.	Mini Domestic Water Heater for use with LPG	Combustion	IS 15558: 2024
325.		Connections	IS 15558: 2024
326.		Flame Stability	IS 15558: 2024
327.		Flash Back	IS 15558: 2024
328.		Gas Taps	IS 15558: 2024
329.		General Requirement	IS 15558: 2024
330.		Hot Water Output test	IS 15558: 2024
331.		Ignition and Flame Travel	IS 15558: 2024
332.		Ignition Device	IS 15558: 2024
333.		Materials	IS 15558: 2024
334.		Noise Control	IS 15558: 2024
335.		Protection against Accidental Overheating	IS 15558: 2024
336.		Resistance to Draught	IS 15558: 2024
337.		Thermal Efficiency	IS 15558: 2024

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Mechanical Properties of Metals</b>		
338.	Mini Domestic Water Heater for use with LPG	Time for Temperature Rise	IS 15558: 2024
339.		Water Rate Adjuster	IS 15558: 2024
340.		Water Soundness	IS 15558: 2024
341.	Specification for Door Handles for Mortice Locks (Vertical Type)	Type	IS 4992: 1975 Clause 2
342.		Size	IS 4992: 1975 Clause 2
343.		Manufacture and Construction	IS 4992: 1975 Clause 4
344.		Dimensions and Tolerances	IS 4992: 1975 Clause 5.1
345.		Performance Requirements	IS 4992: 1975 Clause 6
346.		Workmanship	IS 4992: 1975 Clause 7.1
347.		Marking	IS 4992: 1975 Clause 10.1
348.		Corrosion Resistance	IS:4992, IS:9844
349.	Door Handles	Types	IS 208: 2020 Clause 3
350.		General	IS 208: 2020 Clause 5.1
351.		Dimensions and Tolerances	IS 208: 2020 Clause 6.1 & 6.2
352.		Screw Holes	IS 208: 2020 Clause 6.1 & 6.2
353.		Screw Designation No.	IS 6760: 1972 Clause 6.1 & 6.2
354.		Finish	IS 208: 2020 Clause 7
355.		Pencil Hardness	Test IS 208: 2020 Clause 8.1
356.		Corrosion Test	IS 9844: 1981 Clause 8.2
357.		Anodizing Test	IS 1868: 1996 Clause 8.3
358.		Marking	IS 208: 2020 Clause 10

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
1.	Room Heaters	Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-30:2007
2.		Resistance to heat and fire	Cl.30 of IS 302-2-30:2007
3.		Resistance to rusting	Cl.31 of IS 302-2-30:2007
4.		Classification	Cl.6 of IS 302-2-30:2007
5.		Marking and Instruction	Cl.7 of IS 302-2-30:2007
6.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-30:2007
7.		Starting of Motor-Operated Appliances	Cl.9 of IS 302-2-30:2007
8.		Power input and Current	Cl.10 of IS 302-2-30:2007
9.		Heating	Cl.11 of IS 302-2-30:2007
10.		Leakage Current and Electric Strength at operating temperature	Cl.13 of IS 302-2-30:2007
11.		Transient Over Voltage	Cl.14 of IS 302-2-30:2007
12.		Moisture Resistance	Cl.15 of IS 302-2-30:2007
13.		Leakage Current and Electric Strength	Cl.16 of IS 302-2-30:2007
14.		Abnormal Operation	Cl.19 of IS 302-2-30:2007
15.		Stability and Mechanical hazards	Cl.20 of IS 302-2-30:2007
16.		Mechanical Strength	Cl.21 of IS 302-2-30:2007
17.		Construction	Cl.22 of IS 302-2-30:2007

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
18.	Room Heaters	Internal Wiring	Cl.23 of IS 302-2-30:2007
19.		Components	Cl.24 of IS 302-2-30:2007
20.		Supply Connection and External Flexible Cord	Cl.25 of IS 302-2-30:2007
21.		Terminal for External Conductors	Cl.26 of IS 302-2-30:2007
22.		Provision for Earthing	Cl.27 of IS 302-2-30:2007
23.		Screws and Connections	Cl.28 of IS 302-2-30:2007
24.		Appliances for Heating Liquids	Classification
25.	Marking and Instruction		Cl.7 of IS 302-2-15:2009
26.	Protection Against Access to Live Parts		Cl.8 of IS 302-2-15:2009
27.	Power input and Current		Cl.10 of IS 302-2-15:2009
28.	Heating		Cl.11 of IS 302-2-15:2009
29.	Leakage Current and Electric Strength at operating temperature		Cl.13 of IS 302-2-15:2009
30.	Transient Over Voltage		Cl.14 of IS 302-2-15:2009
31.	Moisture Resistance		Cl.15 of IS 302-2-15:2009
32.	Leakage Current and Electric Strength		Cl.16 of IS 302-2-15:2009
33.	Abnormal Operation		Cl.19 of IS 302-2-15:2009
34.	Stability and Mechanical hazards	Cl.20 of IS 302-2-15:2009	

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Domestic Electrical Appliances</b>			
35.	Appliances for Heating Liquids	Mechanical Strength	Cl.21 of IS 302-2-15:2009	
36.		Construction	Cl.22 of IS 302-2-15:2009	
37.		Internal Wiring	Cl.23 of IS 302-2-15:2009	
38.		Components	Cl.24 of IS 302-2-15:2009	
39.		Supply Connection and External Flexible Cord	Cl.25 of IS 302-2-15:2009	
40.		Terminal for External Conductors	Cl.26 of IS 302-2-15:2009	
41.		Provision for Earthing	Cl.27 of IS 302-2-15:2009	
42.		Screws and Connections	Cl.28 of IS 302-2-15:2009	
43.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-15:2009	
44.		Resistance to heat and fire	Cl.30 of IS 302-2-15:2009	
45.		Resistance to rusting	Cl.31 of IS 302-2-15:2009	
46.		Toasters, Grills, Roasters and Similar Appliances	Classification	Cl.6 of IS 302-2-9:2009
47.			Marking and Instruction	Cl.7 of IS 302-2-9:2009
48.			Protection Against Access to Live Parts	Cl.8 of IS 302-2-9:2009
49.			Power input and Current	Cl.10 of IS 302-2-9:2009
50.	Heating		Cl.11 of IS 302-2-9:2009	
51.	Leakage Current and Electric Strength at operating temperature		Cl.13 of IS 302-2-9:2009	
52.	Transient Over Voltage	Cl.14 of IS 302-2-9:2009		

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Domestic Electrical Appliances</b>			
53.	Toasters, Grills, Roasters and Similar Appliances	Moisture Resistance	Cl.15 of IS 302-2-9:2009	
54.		Leakage Current and Electric Strength	Cl.16 of IS 302-2-9:2009	
55.		Abnormal Operation	Cl.19 of IS 302-2-9:2009	
56.		Stability and Mechanical hazards	Cl.20 of IS 302-2-9:2009	
57.		Mechanical Strength	Cl.21 of IS 302-2-9:2009	
58.		Construction	Cl.22 of IS 302-2-9:2009	
59.		Internal Wiring	Cl.23 of IS 302-2-9:2009	
60.		Components	Cl.24 of IS 302-2-9:2009	
61.		Supply Connection and External Flexible Cord	Cl.25 of IS 302-2-9:2009	
62.		Terminal for External Conductors	Cl.26 of IS 302-2-9:2009	
63.		Provision for Earthing	Cl.27 of IS 302-2-9:2009	
64.		Screws and Connections	Cl.28 of IS 302-2-9:2009	
65.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-9:2009	
66.		Resistance to heat and fire	Cl.30 of IS 302-2-9:2009	
67.		Resistance to rusting	Cl.31 of IS 302-2-9:2009	
68.		Cooking Ranges, Hobs, Ovens and Similar Appliances	Classification	Cl.6 of IS 302-2-6:2009
69.			Marking and Instruction	Cl.7 of IS 302-2-6:2009
70.			Protection Against Access to Live Parts	Cl.8 of IS 302-2-6:2009

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
71.	Cooking Ranges, Hobs, Ovens and Similar Appliances	Power input and Current	Cl.10 of IS 302-2-6:2009
72.		Heating	Cl.11 of IS 302-2-6:2009
73.		Leakage Current and Electric Strength at operating temperature	Cl.13 of IS 302-2-6:2009
74.		Transient Over Voltage	Cl.14 of IS 302-2-6:2009
75.		Moisture Resistance	Cl.15 of IS 302-2-6:2009
76.		Leakage Current and Electric Strength	Cl.16 of IS 302-2-6:2009
77.		Abnormal Operation	Cl.19 of IS 302-2-6:2009
78.		Stability and Mechanical hazards	Cl.20 of IS 302-2-6:2009
79.		Mechanical Strength	Cl.21 of IS 302-2-6:2009
80.		Construction	Cl.22 of IS 302-2-6:2009
81.		Internal Wiring	Cl.23 of IS 302-2-6:2009
82.		Components	Cl.24 of IS 302-2-6:2009
83.		Supply Connection and External Flexible Cord	Cl.25 of IS 302-2-6:2009
84.		Terminal for External Conductors	Cl.26 of IS 302-2-6:2009
85.		Provision for Earthing	Cl.27 of IS 302-2-6:2009
86.		Screws and Connections	Cl.28 of IS 302-2-6:2009
87.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-6:2009

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Domestic Electrical Appliances</b>			
88.	Cooking Ranges, Hobs, Ovens and Similar Appliances	Resistance to heat and fire	Cl.30 of IS 302-2-6:2009	
89.		Resistance to rusting	Cl.31 of IS 302-2-6:2009	
90.	Electric Food-Mixers (Liquidizers and Grinder) and Centrifugal Juicers	General Conditions for the tests	Cl.5 of IS 4250:2025	
91.		Classification	Cl.6 of IS 4250:2025	
92.		Marking	Cl.7 of IS 4250:2025	
93.		Protection Against Access to Live Parts	Cl.8 of IS 4250:2025, Cl.8 of IS 302-2-14:2009	
94.		Power input and Current	Cl.8 of IS 4250:2025, Cl.10 of IS 302-2-14:2009	
95.		Heating	Cl.8 of IS 4250:2025, Cl.11 of IS 302-2-14:2009	
96.		Leakage Current and Electric Strength at operating temperature	Cl.8 of IS 4250:2025, Cl.13 of IS 302-2-14:2009	
97.		Transient over voltage	Cl.8 of IS 4250:2025, Cl.14 of IS 302-2-14:2009	
98.		Moisture Resistance		Cl.8 of IS 4250:2025, Cl.15 of IS 302-2-14:2009
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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
99.	Electric Food-Mixers (Liquidizers and Grinder) and Centrifugal Juicers	Leakage current and electric strength	Cl.8 of IS 4250:2025, Cl.16 of IS 302-2-14:2009
100.		Endurance	Cl.8 of IS 4250:2025, Cl.18 of IS 302-2-14:2009
101.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.8 of IS 4250:2025, Cl.19 of IS 302-2-14:2009
102.		Stability and Mechanical hazards	Cl.8 of IS 4250:2025, Cl.20 of IS 302-2-14:2009
103.		Mechanical Strength	Cl.8 of IS 4250:2025, Cl.21 of IS 302-2-14:2009
104.		Construction	Cl.8 of IS 4250:2025, Cl.22 of IS 302-2-14:2009
105.		Internal Wiring	Cl.8 of IS 4250:2025, Cl.23 of IS 302-2-14:2009
106.		Components (Visual Inspection Only)	Cl.8 of IS 4250:2025, Cl.24 of IS 302-2-14
107.		Supply Connection and External Flexible Cord	Cl.8 of IS 4250:2025, Cl.25 of IS 302-2-14:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
108.	Electric Food-Mixers (Liquidizers and Grinder) and Centrifugal Juicers	Terminal for External Conductors	Cl.8 of IS 4250:2025, Cl.26 of IS 302-2-14:2009
109.		Provision for Earthing	Cl.8 of IS 4250:2025, Cl.27 of IS 302-2-14:2009
110.		Screws and Connections	Cl.8 of IS 4250:2025, Cl.28 of IS 302-2-14:2009
111.		Clearances, Creepage distances and solid insulation	Cl.8 of IS 4250:2025, Cl. 29 of IS 302-2-14:2009
112.		Resistance to heat, fire and tracking	Cl.8 of IS 4250:2025, Cl. 30 of IS 302-2-14:2009
113.		Resistance to rusting	Cl.31 of IS 4250:2025, Cl. 29 of IS 302-2-14:2009
114.		Operational Tests	Cl.10 of IS 4250:2025
115.		Temperature withstand test for Bowl	Cl.11 of IS 4250:2025
116.		Test for Controls	Cl.12 of IS 4250:2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
117.		Strength of Assembly	Cl.13 of IS 4250:2025
118.		Classification	Cl.6 of IS 302-2-3:2024
119.		Marking and Instructions	Cl.7 of IS 302-2-3:2024
120.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-3:2024
121.		Power input and Current	Cl.10 of IS 302-2-3:2024
122.	Household and similar electrical appliance Safety- Electric Irons (Excluding Steam iron)	Heating	Cl.11 of IS 302-2-3:2024
123.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302-2-3:2024
124.		Transient over Voltage	Cl.14 of IS 302-2-3:2024
125.		Mechanical Strength	Cl.21 of IS 302-2-3:2024
126.		Moisture Resistance	Cl.15 of IS 302-2-3:2024
127.		Leakage current and Electric Strength	Cl.16 of IS 302-2-3:2024
128.		Abnormal Operation (Excluding 19.11.4 of Is 302-1)	Cl.19 of IS 302-2-3:2024
129.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-3:2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
130.		Construction	Cl.22 of IS 302-2-3:2024
131.		Internal Wiring	Cl.23 of IS 302-2-3:2024
132.		Components (Visual inspection only)	Cl.24 of IS 302-2-3:2024
133.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-3:2024
134.		Terminals for External Conductors	Cl.26 of IS 302-2-3:2024
135.	Household and similar electrical appliance Safety-Electric Irons	Provision for Earthing	Cl.27 of IS 302-2-3:2024
136.		Screw and Connections	Cl.28 of IS 302-2-3:2024
137.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-3:2024
138.		Resistance to Heat ,Fire and tracking	Cl.30 of IS 302-2-3:2024
139.		Resistance to Rusting	Cl.31 of IS 302-2-3:2024
140.	Electric Irons	Measurement of Heating –up Time	Cl. 10 of IS 366:1991
141.		Measurement of Soleplate Temperature	Cl. 11 of IS 366:1991
142.		Measurement of Temperature Distribution	Cl. 12 of IS 366:1991

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
143.	Electric Irons	Measurement of Initial Over swing Temperature and Heating-up Excess Temperature	Cl. 13 of IS 366:1991
144.		Measurement of Cyclic Fluctuation of Temperature	Cl. 14 of IS 366:1991
145.		Measurement of Thermostatic Stability	Cl. 16 of IS 366:1991
146.		Finish	Cl. 17 of IS 366:1991
147.	Household and similar electrical appliances-Safety Water Heaters (Only for closed water heater)	Classification	Cl.6 of IS 302-2-21:2024
148.		Marking and Instructions	Cl.7 of IS 302-2-21:2024
149.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-21:2024
150.		Power input and Current	Cl.10 of IS 302-2-21:2024
151.		Heating	Cl.11 of IS 302-2-21:2024
152.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302-2-21:2024
153.		Transient over Voltage	Cl.14 of IS 302-2-21:2024
154.		Moisture Resistance	Cl.15 of IS 302-2-21:2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
155.	Household and similar electrical appliances-Safety Water Heaters (Only for closed water heater)	Leakage current and Electric Strength	Cl.16 of IS 302-2-21:2024
156.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-21:2024
157.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-21:2024
158.		Mechanical Strength	Cl.21 of IS 302-2-21:2024
159.		Construction	Cl.22 of IS 302-2-21:2024
160.		Internal Wiring	Cl.23 of IS 302-2-21:2024
161.		Components (Visual inspection only)	Cl.24 of IS 302-2-21:2024
162.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-21:2024
163.		Terminals for External Conductors	Cl.26 of IS 302-2-21:2024
164.		Provision for Earthing	Cl.27 of IS 302-2-21:2024
165.		Screw and Connections	Cl.28 of IS 302-2-21:2024
166.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-21:2024
167.		Resistance to Heat ,Fire and tracking	Cl.30 of IS 302-2-21:2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
168.	Household and similar electrical appliances-Safety Water Heaters (Only for closed water heater)	Resistance to Rusting	Cl.31 of IS 302-2-21:2024
169.	Stationary Storage type Electric Water Heaters	Verification of the rated Capacity	Cl. 14 of IS 2082:2018
170.		Standing loss per 24 hours	Cl. 15 of IS 2082:2018
171.		Hot Water Output	Cl. 16 of IS 2082:2018
172.		Reheating Time	Cl. 17 of IS 2082:2018
173.		Mixing Factor	Cl. 18 of IS 2082:2018
174.		Deviation Form Dial Calibration	Cl. 19 of IS 2082:2018
175.		Cyclic Temperature Variation	Cl. 20 of IS 2082:2018
176.		Electric Instantaneous Water Heater	Classification
177.	Marking and Instructions		Cl.7 of IS 302-2-35:2017
178.	Protection Against Access to Live Parts		Cl.8 of IS 302-2-35:2017
179.	Power input and Current		Cl.10 of IS 302-2-35:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
180.	Electric Instantaneous Water Heater	Heating	Cl.11 of IS 302-2-35:2017
181.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302-2-35:2017
182.		Transient over Voltage	Cl.14 of IS 302-2-35:2017
183.		Moisture Resistance	Cl.15 of IS 302-2-35:2017
184.		Leakage Current & Electric Strength at operating Temperature	Cl.16 of IS 302-2-35:2017
185.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-35:2017
186.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-35:2017
187.		Mechanical Strength	Cl.21 of IS 302-2-35:2017
188.		Construction	Cl.22 of IS 302-2-35:2017
189.		Internal Wiring	Cl.23 of IS 302-2-35:2017
190.		Components (Visual Inspection Only)	Cl.24 of IS 302-2-35:2017
191.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-35:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
192.	Electric Instantaneous Water Heater	Terminals for External Conductors	Cl.26 of IS 302-2-35:2017
193.		Provision for Earthing	Cl.27 of IS 302-2-35:2017
194.		Screw and Connections	Cl.28 of IS 302-2-35:2017
195.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-35:2017
196.		Resistance to Heat ,Fire and tracking	Cl.30 of IS 302-2-35:2017
197.		Resistance to Rusting	Cl.31 of IS 302-2-35:2017
198.		Finish	Cl.10 of IS 8978:1992
199.		Operation of Flow Switch	Cl.11 of IS 8978:1992
200.		Endurance	Cl.12 of IS 8978:1992
201.		Electric Immersion Water Heater	Classification
202.	Marking		Cl. 7 of IS 368:2014 & IS 302-2-201:2008
203.	Protection Against Access to Live Parts		Cl. 8 of IS 368:2014 & IS 302-2-201:2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
204.	Electric Immersion Water Heater	Power input and Current	Cl. 10 of IS 368:2014 & IS 302-2-201:2008
205.		Heating	Cl. 11 of IS 368:2014 & IS 302-2-201:2008
206.		Operation Under Overload Conditions of Appliances with Heating Elements	Cl. 12 of IS 368:2014
207.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 368:2014 & IS 302-2-201:2008
208.		Transient over Voltage	Cl.14 of IS 368:2014 & IS 302-2-201:2008
209.		Moisture Resistance	Cl. 15 of IS 368:2014 & IS 302-2-201:2008
210.		Leakage Current & Electric Strength	Cl. 16 of IS 368:2014 & IS 302-2-201:2008
211.		Endurance	Cl. 18 of IS 368:2014
212.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl. 19 of IS 368:2014

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Domestic Electrical Appliances</b>			
213.	Electric Immersion Water Heater	Stability and Mechanical Hazards	Cl. 20 of IS 368:2014	
214.		Mechanical Strength	Cl. 21 of IS 368:2014	
215.		Construction	Cl. 22 of IS 368:2014	
216.		Internal Wiring	Cl. 23 of IS 368:2014	
217.		Components (Visual inspection only)	Cl. 24 of IS 368:2014	
218.		Supply Connection and External Flexible Cords	Cl. 25 of IS 368:2014	
219.		Terminals for External Conductors	Cl. 26 of IS 368:2014	
220.		Provision for Earthing	Cl. 27 of IS 368:2014	
221.		Screw and Connections	Cl. 28 of IS 368:2014	
222.		Clearances, Creepage distances and solid insulation	Cl. 29 of IS 368:2014	
223.		Resistance to Heat ,Fire	Cl. 30 of IS 368:2014	
224.		Resistance to Rusting	Cl. 31 of IS 368:2014	
225.		Electric Kitchen Machines	Classification	Cl.6 of IS 302-2-14:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
226.	Electric Kitchen Machines	Marking and Instruction	Cl.7 of IS 302-2-14:2009
227.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-14:2009
228.		Power input and Current	Cl.10 of IS 302-2-14:2009
229.		Heating	Cl.11 of IS 302-2-14:2009
230.		Leakage Current and Electric Strength at operating temperature	Cl.13 of IS 302-2-14:2009
231.		Transient Over Voltage	Cl.14 of IS 302-2-14:2009
232.		Moisture Resistance	Cl.15 of IS 302-2-14:2009
233.		Leakage Current and Electric Strength	Cl.16 of IS 302-2-14:2009
234.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-14:2009
235.		Stability and Mechanical hazards	Cl.20 of IS 302-2-14:2009
236.		Mechanical Strength	Cl.21 of IS 302-2-14:2009
237.		Construction	Cl.22 of IS 302-2-14:2009
238.		Internal Wiring	Cl.23 of IS 302-2-14:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
239.	Electric Kitchen Machines	Components (Visual Inspection Only)	Cl.24 of IS 302-2-14:2009
240.		Supply Connection and External Flexible Cord	Cl.25 of IS 302-2-14:2009
241.		Terminal for External Conductors	Cl.26 of IS 302-2-14:2009
242.		Provision for Earthing	Cl.27 of IS 302-2-14:2009
243.		Screws and Connections	Cl.28 of IS 302-2-14:2009
244.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-14:2009
245.		Resistance to heat and fire	Cl.30 of IS 302-2-14:2009
246.		Resistance to rusting	Cl.31 of IS 302-2-14:2009
247.	Safety of household and similar electrical appliances- Electric Stoves	Classification	Cl.6 of IS 302-2-202:1992
248.		Marking	Cl.7 of IS 302-2-202:1992
249.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-202:1992
250.		Input and Current	Cl.10 of IS 302-2-202:1992
251.		Temperature Rise	Cl.11 of IS 302-2-202:1992

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
252.	Safety of household and similar electrical appliances- Electric Stoves	Operation under overload conditions of Appliances with heating Elements	Cl.12 of IS 302-2-202:1992
253.		Electricals insulation and Leakage Current at operating Temperature	Cl.13 of IS 302-2-202:1992
254.		Moisture Resistance	Cl.15 of IS 302-2-202:1992
255.		Insulation Resistance and Electric Strength (after Humidity treatment)	Cl.16 of IS 302-2-202:1992
256.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-202:1992
257.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-202:1992
258.		Mechanical Strength	Cl.21 of IS 302-2-202:1992
259.		Construction	Cl.22 of IS 302-2-202:1992
260.		Internal Wiring	Cl.23 of IS 302-2-202:1992
261.		Components (Visual inspection only)	Cl.24 of IS 302-2-202:1992
262.		Supply Connection and External Flexible cables and cords	Cl.25 of IS 302-2-202:1992

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
263.	Safety of household and similar electrical appliances- Electric Stoves	Terminals for External Conductors	Cl.26 of IS 302-2-202:1992
264.		Provision for Earthing	Cl.27 of IS 302-2-202:1992
265.		Screw and Connections	Cl.28 of IS 302-2-202:1992
266.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-202:1992
267.		Resistance to Heat ,Fire and tracking	Cl.30 of IS 302-2-202:1992
268.		Resistance to Rusting	Cl.31 of IS 302-2-202:1992
269.		Mineral Filled Sheathed Heating Elements	Classification
270.	Marking and Instructions		Cl. 7 of IS 4159:2021
271.	Protection Against Access to Live Parts		Cl. 8 of IS 4159:2021
272.	Power input and Current		Cl. 10 of IS 4159:2021
273.	Heating		Cl. 11 of IS 4159:2021
274.	Leakage current and Electric Strength at operating Temperature		Cl.13 of IS 4159:2021
275.	Transient over Voltage	Cl.14 of IS 4159:2021	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
276.	Mineral Filled Sheathed Heating Elements	Moisture Resistance	Cl. 15 of IS 4159:2021
277.		Leakage Current & Electric Strength	Cl. 16 of IS 4159:2021
278.		Endurance	Cl. 18 of IS 4159:2021
279.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl. 19 of IS 4159:2021
280.		Stability and Mechanical Hazards	Cl. 20 of IS 4159:2021
281.		Mechanical Strength	Cl. 21 of IS 4159:2021
282.		Construction	Cl. 22 of IS 4159:2021
283.		Internal Wiring	Cl. 23 of IS 4159:2021
284.		Components (Visual inspection only)	Cl. 24 of IS 4159:2021
285.		Supply Connection and External Flexible Cords	Cl. 25 of IS 4159:2021
286.		Terminals for External Conductors	Cl. 26 of IS 4159:2021
287.		Provision for Earthing	Cl. 27 of IS 4159:2021
288.		Screw and Connections	Cl. 28 of IS 4159:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
289.	Mineral Filled Sheathed Heating Elements	Clearances, Creepage distances and solid insulation	Cl. 29 of IS 4159:2021
290.		Resistance to Heat, Fire and tracking	Cl. 30 of IS 4159:2021
291.		Resistance to Rusting	Cl. 31 of IS 4159:2021
292.	Safety of household and similar electrical appliances- Range Hoods	Classification	Cl.6 of IS 302-2-31:2009
293.		Marking and Instructions	Cl.7 of IS 302-2-31:2009
294.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-31:2009
295.		Power input and Current	Cl.10 of IS 302-2-31:2009
296.		Heating	Cl.11 of IS 302-2-31:2009
297.		Leakage current and Electric Strength at operating Temperature	Cl.6 of IS 302-2-31:2009
298.		Transient over Voltage	Cl.14 of IS 302-2-31:2009
299.		Moisture Resistance	Cl.15 of IS 302-2-31:2009
300.		Leakage Current & Electric Strength	Cl.16 of IS 302-2-31:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
301.	Safety of household and similar electrical appliances- Range Hoods	Abnormal operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-31:2009
302.		Stability and mechanical hazards	Cl.20 of IS 302-2-31:2009
303.		Mechanical Strength	Cl.21 of IS 302-2-31:2009
304.		Construction	Cl.22 of IS 302-2-31:2009
305.		Internal Wiring	Cl.23 of IS 302-2-31:2009
306.		Components (Visual inspection only)	Cl.24 of IS 302-2-31:2009
307.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-31:2009
308.		Terminals for External Conductors	Cl.26 of IS 302-2-31:2009
309.		Provision for Earthing	Cl.27 of IS 302-2-31:2009
310.		Screw and Connections	Cl.28 of IS 302-2-31:2009
311.		Creepage distance and clearances	Cl.29 of IS 302-2-31:2009
312.		Resistance to heat and fire	Cl.30 of IS 302-2-31:2009
313.		Resistance to rusting	Cl.31 of IS 302-2-31:2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
314.	Safety of household and similar electrical appliances- Electric Coffee Makers	Classification	Cl.6 of IS 302-2-206:1994
315.		Marking	Cl.7 of IS 302-2-206:1994
316.		Protection Against electric shock	Cl.8 of IS 302-2-206:1994
317.		Input	Cl.10 of IS 302-2-206:1994
318.		Temperature Rise	Cl.11 of IS 302-2-206:1994
319.		Operation under overload conditions of Appliances with Heating Elements	Cl.12 of IS 302-2-206:1994
320.		Electricals insulation and Leakage Current at operating Temperature	Cl.13 of IS 302-2-206:1994
321.		Radio and television interference suppression	Cl.14 of IS 302-2-206:1994
322.		Moisture Resistance	Cl.15 of IS 302-2-206:1994
323.		Insulation Resistance and Electric Strength (After humidity treatment)	Cl.16 of IS 302-2-206:1994
324.		Endurance	Cl.18 of IS 302-2-206:1994

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
325.	Safety of household and similar electrical appliances- Electric Coffee Makers	Abnormal operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-206:1994
326.		Stability and mechanical hazards	Cl.20 of IS 302-2-206:1994
327.		Mechanical Strength	Cl.21 of IS 302-2-206:1994
328.		Construction	Cl.22 of IS 302-2-206:1994
329.		Internal Wiring	Cl.23 of IS 302-2-206:1994
330.		Components (Visual inspection only)	Cl.24 of IS 302-2-206:1994
331.		Supply Connection and External Flexible cables and Cords	Cl.25 of IS 302-2-206:1994
332.		Terminals for External Conductors	Cl.26 of IS 302-2-206:1994
333.		Provision for Earthing	Cl.27 of IS 302-2-206:1994
334.		Screw and Connections	Cl.28 of IS 302-2-206:1994
335.		Creepage distance and clearances	Cl.29 of IS 302-2-206:1994
336.		Resistance to heat and fire	Cl.30 of IS 302-2-206:1994
337.		Resistance to rusting	Cl.31 of IS 302-2-206:1994

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
338.	Safety of household and similar electrical appliances- Massage Appliances	Rating	Cl.5 of IS 302-2-32:1994
339.		Classification	Cl.6 of IS 302-2-32:1994
340.		Marking	Cl.7 of IS 302-2-32:1994
341.		Protection against electric shock	Cl.8 of IS 302-2-32:1994
342.		Input and Current	Cl.10 of IS 302-2-32:1994
343.		Temperature Rise	Cl.11 of IS 302-2-32:1994
344.		Operation under overload conditions of Appliances with Heating Elements	Cl.12 of IS 302-2-32:1994
345.		Electricals Insulation and Leakage Current at operating temperature	Cl.13 of IS 302-2-32:1994
346.		Moisture Resistance	Cl.15 of IS 302-2-32:1994
347.		Insulation Resistance and Electric Strength (after humidity treatment)	Cl.16 of IS 302-2-32:1994
348.	Overload protection	Cl.17 of IS 302-2-32:1994	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
349.	Safety of Household and Similar Electrical Appliances- Massage Appliances	Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-32:1994
350.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-32:1994
351.		Mechanical Strength	Cl.21 of IS 302-2-32:1994
352.		Construction	Cl.22 of IS 302-2-32:1994
353.		Internal wiring	Cl.23 of IS 302-2-32:1994
354.		Components (Visual inspection only)	Cl.24 of IS 302-2-32:1994
355.		Supply Connection and External Flexible cables and Cords	Cl.25 of IS 302-2-32:1994
356.		Terminals For External Conductor	Cl.26 of IS 302-2-32:1994
357.		Provision For Earthing	Cl.27 of IS 302-2-32:1994
358.		Screws And Connection	Cl.28 of IS 302-2-32:1994
359.		Creepage distances and Clearances	Cl.29 of IS 302-2-32:1994
360.		Resistance to Heat, Fire and tracking	Cl.30 of IS 302-2-32:1994
361.		Resistance to Rusting	Cl.31 of IS 302-2-32:1994

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
362.	Household and Similar Electrical Appliances - Safety-Insect Killers	General Conditions for the tests	Cl.5 of IS 302-2-59:2024
363.		Classification	Cl.6 of IS 302-2-59:2024
364.		Marking and instructions	Cl.7 of IS 302-2-59:2024
365.		Protection Against Access to Live Parts	Cl.8 of IS 302-2-59:2024
366.		Power input and Current	Cl.10 of IS 302-2-59:2024
367.		Heating	Cl.11 of IS 302-2-59:2024
368.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302-2-59:2024
369.		Transient over Voltage	Cl.14 of IS 302-2-59:2024
370.		Moisture Resistance	Cl.15 of IS 302-2-59:2024
371.		Leakage current and electric strength	Cl.16 of IS 302-2-59:2024
372.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-59:2024
373.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-59:2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
374.	Household and Similar Electrical Appliances - Safety-Insect Killers	Mechanical Strength	Cl.21 of IS 302-2-59:2024
375.		Construction	Cl.22 of IS 302-2-59:2024
376.		Internal wiring	Cl.23 of IS 302-2-59:2024
377.		Components (Visual inspection only)	Cl.24 of IS 302-2-59:2024
378.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-59:2024
379.		Terminals for external conductors	Cl.26 of IS 302-2-59:2024
380.		Provision For Earthing	Cl.27 of IS 302-2-59:2024
381.		Screws And Connection	Cl.28 of IS 302-2-59:2024
382.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-59:2024
383.		Resistance to Heat, Fire and tracking	Cl.30 of IS 302-2-59:2024
384.		Resistance to Rusting	Cl.31 of IS 302-2-59:2024



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
385.	Household and Similar Electrical Appliances - Safety-Electric Irons	Classification and Rating	Cl.6 of IS 302 : Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
386.		Marking and Instructions	Cl.7 of IS 302 : Part 2 : Sec3 : 2024 (IEC 60335-2-3 : 2022)
387.		Protection Against Access to Live Parts	Cl.8 of IS 302: Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
388.		Power input and Current	Cl.10 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
389.		Heating	Cl.11 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
390.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
391.		Transient over Voltage	Cl.14 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
392.		Moisture Resistance	Cl.15 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
393.	Household and Similar Electrical Appliances - Safety-Electric Irons	Leakage current and Electric Strength	Cl.16 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
394.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
395.		Stability and Mechanical Hazards	Cl.20 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
396.		Mechanical Strength	Cl.21 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
397.		Construction	Cl.22 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
398.		Internal Wiring	Cl.23 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
399.		Components (Visual inspection only)	Cl.24 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
400.		Supply Connection and External Flexible Cords	Cl.25 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)
401.		Terminals for External Conductors	Cl.26 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Domestic Electrical Appliances</b>			
402.	Household and Similar Electrical Appliances - Safety-Electric Irons	Provision for Earthing	Cl.27 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)	
403.		Screw and Connections	Cl.28 of IS 302:Part 2: Sec 3: 2024 (IEC 60335-2-3 : 2022)	
404.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302:Part 2 : Sec 3: 2024 (IEC 60335-2-3 : 2022)	
405.		Resistance to Heat and Fire	Cl.30 of IS 302:Part 2: Sec 3: 2024 ( IEC 60335-2-3 : 2022)	
406.		Resistance to Rusting	Cl.31 of IS 302:Part 2: Sec 3: 2024 ( IEC 60335-2-3 : 2022)	
407.		Household and Similar Electrical Appliances - Safety-Storage Water Heaters	Classification	Cl.6 of IS 302-2-21:2024 & IEC 60335-2-21:2022
408.			Marking and Instructions	Cl.7 of IS 302-2-21:2024 & IEC 60335-2-21:2022
409.			Protection Against Access to Live Parts	Cl.8 of IS 302-2-21:2024 & IEC 60335-2-21:2022
410.			Power input and Current	Cl.10 of IS 302-2-21:2024 & IEC 60335-2-21:2022

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
411.	Household and Similar Electrical Appliances - Safety-Storage Water Heaters	Heating	Cl.11 of IS 302-2-21:2024 & IEC 60335-2-21:2022
412.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302-2-21:2024 & IEC 60335-2-21:2022
413.		Transient over Voltage	Cl.14 of IS 302-2-21:2024 & IEC 60335-2-21:2022
414.		Moisture Resistance	Cl.15 of IS 302-2-21:2024 & IEC 60335-2-21:2022
415.		Leakage current and Electric Strength	Cl.16 of IS 302-2-21:2024 & IEC 60335-2-21:2022
416.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-21:2024 & IEC 60335-2-21:2022
417.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-21:2024 & IEC 60335-2-21:2022
418.		Mechanical Strength	Cl.21 of IS 302-2-21:2024 & IEC 60335-2-21:2022
419.			Construction

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
420.	Household and Similar Electrical Appliances - Safety-Storage Water Heaters	Internal Wiring	Cl.23 of IS 302-2-21:2024 & IEC 60335-2-21:2022
421.		Components (Visual inspection only)	Cl.24 of IS 302-2-21:2024 & IEC 60335-2-21:2022
422.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-21:2024 & IEC 60335-2-21:2022
423.		Terminals for External Conductors	Cl.26 of IS 302-2-21:2024 & IEC 60335-2-21:2022
424.		Provision for Earthing	Cl.27 of IS 302-2-21:2024 & IEC 60335-2-21:2022
425.		Screw and Connections	Cl.28 of IS 302-2-21:2024 & IEC 60335-2-21:2022
426.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-21:2024 & IEC 60335-2-21:2022
427.		Resistance to Heat and Fire	Cl.30 of IS 302-2-21:2024 & IEC 60335-2-21:2022
428.		Resistance to Rusting	Cl.31 of IS 302-2-21:2024 & IEC 60335-2-21:2022

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
429.	Household and Similar Electrical Appliances - Safety - Part 1 General Requirements	Classification	Cl.6 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
430.		Marking and Instructions	Cl.7 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
431.		Protection Against Access to Live Parts	Cl.8 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
432.		Power input and Current	Cl.10 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
433.		Heating	Cl.11 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
434.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
435.		Transient over Voltage	Cl.14 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
436.		Moisture Resistance	Cl.15 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)

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\*Scope Amended (w.e.f.): 08 Sep 2025

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
437.	Household and Similar Electrical Appliances - Safety - Part 1 General Requirements	Leakage current and Electric Strength	Cl.16 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
438.		Abnormal Operation (Excluding 19.11.4)	Cl.19 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
439.		Stability and Mechanical Hazards	Cl.20 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
440.		Mechanical Strength	Cl.21 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
441.		Construction	Cl.22 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
442.		Internal Wiring	Cl.23 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
443.		Components (Visual inspection only)	Cl.24 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
444.		Supply Connection and External Flexible Cords	Cl.25 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
445.		Terminals for External Conductors	Cl.26 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
446.	Household and Similar Electrical Appliances - Safety - Part 1 General Requirements	Provision for Earthing	Cl.27 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
447.		Screw and Connections	Cl.28 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
448.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
449.		Resistance to heat and fire	Cl.30 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
450.		Resistance to Rusting	Cl.31 of IS 302 : Part 1 : 2024 ( IEC 60335-1 : 2020)
451.	Household and Similar Electrical Appliances - Safety- Shavers, Hair Clipper and Similar Appliances	Classification	Cl.6 of IS 302 : Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
452.		Marking and Instruction	Cl.7 of IS 302 : Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
453.		Protection Against Access to Live Parts	Cl.8 of IS 302 : Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
454.		Power input and Current	Cl.10 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
455.	Household and Similar Electrical Appliances - Safety-Shavers, Hair Clipper and Similar Appliances	Heating	Cl.11 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
456.		Leakage Current and Electric Strength at operating temperature	Cl.13 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
457.		Transient Over Voltage	Cl.14 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
458.		Moisture Resistance	Cl.15 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
459.		Leakage Current and Electric Strength	Cl.16 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
460.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
461.		Stability and Mechanical hazards	Cl.20 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
462.		Mechanical Strength	Cl.21 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
463.	Household and Similar Electrical Appliances - Safety-Shavers, Hair Clipper and Similar Appliances	Construction	Cl.22 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
464.		Internal Wiring	Cl.23 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
465.		Components (Visual inspection only)	Cl.24 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
466.		Supply Connection and External Flexible Cord	Cl.25 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
467.		Terminal for External Conductors	Cl.26 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
468.		Provision for Earthing	Cl.27 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
469.		Screws and Connections	Cl.28 of IS 302:Part 2: Sec 8: 2024 ( IEC 60335-2-8 : 2022)
470.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302:Part 2:Sec 8: 2024 ( IEC 60335-2-8 : 2022)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
471.	Household and Similar Electrical Appliances - Safety-Shavers, Hair Clipper and Similar Appliances	Resistance to heat and fire	Cl.30 of IS 302:Part 2:Sec 8: 2024 ( IEC 60335-2-8 : 2022)
472.		Resistance to rusting	Cl.31 of IS 302:Part 2:Sec 8: 2024 ( IEC 60335-2-8: 2022)
473.	Household and Similar Electrical Appliances - Safety - Particular requirements for Fans	General Conditions for the tests	Cl.5 of IS 302-2-80: 2017
474.		Classification	Cl.6 of IS 302-2-80: 2017
475.		Marking and Instruction	Cl.7 of IS 302-2-80: 2017
476.		Protection against access to live parts	Cl.8 of IS 302-2-80: 2017
477.		Power Input & Current	Cl.10 of IS 302-2-80: 2017
478.		Heating	Cl.11 of IS 302-2-80: 2017
479.		Leakage current and electric strength at operating temperature	Cl.13 of IS 302-2-80: 2017
480.		Transient over voltage	Cl.14 of IS 302-2-80: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
481.	Household and Similar Electrical Appliances - Safety - Particular requirements for Fans	Moisture Resistance	Cl.15 of IS 302-2-80: 2017
482.		Leakage current and electric strength	Cl.16 of IS 302-2-80: 2017
483.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-80: 2017
484.		Stability and Mechanical Hazards	Cl.20 of IS 302-2-80: 2017
485.		Mechanical Strength	Cl.21 of IS 302-2-80: 2017
486.		Construction	Cl.22 of IS 302-2-80: 2017
487.		Internal Wiring	Cl.23 of IS 302-2-80: 2017
488.		Components (Visual inspection only)	Cl.24 of IS 302-2-80: 2017
489.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-80: 2017
490.		Terminals For External Conductor	Cl.26 of IS 302-2-80: 2017
491.		Provision For Earthing	Cl.27 of IS 302-2-80: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
492.	Household and Similar Electrical Appliances - Safety - Particular requirements for Fans	Screws And Connection	Cl.28 of IS 302-2-80: 2017
493.		Clearances, Creepage distances and solid insulation	Cl.29 of IS 302-2-80: 2017
494.		Resistance to Heat and Fire	Cl.30 of IS 302-2-80: 2017
495.		Resistance to Rusting	Cl.31 of IS 302-2-80: 2017
496.	Safety of household and similar electrical appliances- Clocks	Power input and Current	Cl.10 of IS 302-2-26: 2014
497.		Heating	Cl.11 of IS 302-2-26: 2014
498.		Leakage current and Electric Strength at operating Temperature	Cl.13 of IS 302-2-26: 2014
499.		Transient over Voltage	Cl.14 of IS 302-2-26: 2014
500.		Moisture Resistance	Cl.15 of IS 302-2-26: 2014
501.		Leakage Current & Electric Strength	Cl.16 of IS 302-2-26: 2014
502.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl.19 of IS 302-2-26: : 2014
503.		Stability and mechanical hazards	Cl.20 of IS 302-2-26: : 2014

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Domestic Electrical Appliances</b>			
504.	Safety of household and similar electrical appliances- Clocks	Mechanical Strength	Cl.21 of IS 302-2-26: 2014	
505.		Construction	Cl.22 of IS 302-2-26: 2014	
506.		Internal Wiring	Cl.23 of IS 302-2-26: 2014	
507.		Components (Visual inspection only)	Cl.24 of IS 302-2-26: 2014	
508.		Supply Connection and External Flexible Cords	Cl.25 of IS 302-2-26: 2014	
509.		Terminals for External Conductors	Cl.26 of IS 302-2-26: 2014	
510.		Provision for Earthing	Cl.27 of IS 302-2-26: 2014	
511.		Screw and Connections	Cl.28 of IS 302-2-26: 2014	
512.		Creepage distance and clearances	Cl.29 of IS 302-2-26: 2014	
513.		Resistance to heat and fire	Cl.30 of IS 302-2-26: 2014	
514.		Resistance to Rusting	Cl.31 of IS 302-2-26: 2014	
515.		Domestic Electric Clothes Washing Machines	Classification	Cl. 6 of IS 302-2-7: 2024
516.			Marking and Instructions	Cl. 7 of IS 302-2-7: 2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
517.	Domestic Electric Clothes Washing Machines	Protection Against Access to Live Parts	Cl. 8 of IS 302-2-7: 2024
518.		Power Input and Current	Cl. 10 of IS 302-2-7: 2024
519.		Heating	Cl. 11 of IS 302-2-7: 2024
520.		Leakage Current and Electric Strength at Operating Temperature	Cl. 13 of IS 302-2-7: 2024
521.		Transient Over Voltages	Cl. 14 of IS 302-2-7: 2024
522.		Moisture Resistance	Cl. 15 of IS 302-2-7: 2024
523.		Leakage Current and Electric Strength	Cl. 16 of IS 302-2-7: 2024
524.		Endurance	Cl. 18 of IS 302-2-7: 2024
525.		Abnormal Operation (Excluding 19.11.4 of IS 302-1)	Cl. 19 of IS 302-2-7: 2024
526.		Stability and Mechanical Hazards	Cl. 20 of IS 302-2-7: 2024
527.		Mechanical Strength	Cl. 21 of IS 302-2-7: 2024
528.		Construction	Cl. 22 of IS 302-2-7: 2024
529.		Internal Wiring	Cl. 23 of IS 302-2-7: 2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
530.	Domestic Electric Clothes Washing Machines	Components (Visual inspection only)	Cl. 24 of IS 302-2-7: 2024
531.		Supply Connection and External Flexible Cords	Cl. 25 of IS 302-2-7: 2024
532.		Terminals for External Conductors	Cl. 26 of IS 302-2-7: 2024
533.		Provision for Earthing	Cl. 27 of IS 302-2-7: 2024
534.		Screws and Connections	Cl. 28 of IS 302-2-7: 2024
535.		Clearances, Creepage Distances and Solid Insulation	Cl. 29 of IS 302-2-7: 2024
536.		Resistance to Heat and Fire	Cl. 30 of IS 302-2-7: 2024
537.		Resistance to Rusting	Cl. 31 of IS 302-2-7: 2024

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
1.	Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables /Cords with Rigid and Flexible Conductor for Rated Voltages Up to And Including 1100 V	Additional ageing test (for OU cable only)	IS 694 (Cl.10.9): 2010
2.		Ageing in air oven- Elongation	IS 694 (Table-1, (iii)(c&d) (d)(3) (Cl. 5.4,8.4):2010, IS 5831(Table-1,2)1984 IS 10810 (Part-11): 1984
3.		Ageing in air oven- Tensile Strength	IS 694 (Table-1, iii)(c&d) (d)(3) (Cl. 5.4,8.4):2010, IS 5831 (Table-1,2) 1984, IS 10810 (Part-11): 1984
4.		Loss of Mass	IS 694 Table-1,iii (c&d) (2),:2010 ,IS 10810 (Part 10): 1984, IS 5831 (Table - 1,2) 1984
5.		Annealing test for Copper Conductor	IS 694 (Table-1, (iii)(a)(1) (Cl. 4.2):2010, IS 8130 (Cl. 7.1.2.1,7.2.3) 2013, IS 10810 (Part-1): 1984
6.		Cold Bend Test	IS 694 (Table-1, (iii) (c&d) (8,12) (Cl.5.4,8.4):2010, IS 5831 (Table- 1&2)1984, IS 10810, (Part-20): 1984
7.		Cold Impact Test	IS 694 (Table-1,(iii)(c&d) (9&13) (Cl. 5.4,8.4):2010, IS 5831 (Table-1,2)1984, IS 10810 (Part-21): 1984
8.		Conductor resistance	IS 694 (Table-1, (iii)(a)(4) (Cl.4.2):2010, IS 8130 (Cl. 7.3)2013, IS 10810 (Part-5): 1984
9.		Elongation at break of insulation / sheath	IS 694 (Table-1, (iii)(c&d) (1) (Cl. 5.4,8.4):2010, IS 5831 (Table-1,2) 1984, IS 10810 (Part-7): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
10.	Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables /Cords with Rigid and Flexible Conductor for Rated Voltages Up to And Including 1100 V	Flammability test	IS 694 (Table-1, (iii)(C)(10) (Cl.10.4):2010, IS 10810 (Part-53): 1984
11.		Halogen Acid Gas Evaluation	IS 694 (Table-1, (iii)(c&d) (13,10) (Cl. 10.6):2010, IS 10810 (Part-59): 1988
12.		Heat shock test	IS 694 (Table-1, (iii)(C&d) (5) (Cl. 5.4, 8.4):2010, IS 5831 (Table 1,2)1984, IS 10810 (Part-14): 1984
13.		High voltage Test (AC) Water immersion	IS 694 (Table-1, (iii)(e)(1) (Cl. 10.1):2010, IS:10810 (Part-45): 1984
14.		High voltage Test (AC) Room Temperature	IS 694 (Table-1, (iii)(e) (4)(Cl. 10.2):2010, IS:10810 (Part-45): 1984
15.		High voltage Test (DC) Water immersion	IS 694 (Table-1, (iii) (e)(1)(Cl. 10.1):2010, IS:10810 (Part-45): 1984
16.		Hot deformation test	IS 694 (Table-1, (iii)(c&d) (6) (Cl. 5.4,8.4):2010, IS 5831 (Table-1,2)1984, IS 10810 (Part 15): 1984
17.		Insulation resistance	IS 694 (Table-1, (iii)(e)(2) (Cl.5.4, 8.4):2010, IS 5831 (Table-1): 1984, IS 10810 (Part-43): 1984
18.		Overall dimensions and Thickness of Insulation/ Sheath	IS 694 (Table-1, (iii)(b) (Cl. 5.3,8.3,9,16.1.2,16.1.3, 17.1.2,17.1.3,18.1.2,18.1.4, 18.1.5, 18.1.6,19.1.3,19.1.5, 19.1.6, 19.1.7,20.1.2, 20.1.4,20.1.5,21.1.2,22.1.2, 22.1.4),

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
			(Table-3, 4,5,6,7, 9,10): 2010 IS 10810 (Part-6): 1984
19.	Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables /Cords with Rigid and Flexible Conductor for Rated Voltages Up to And Including 1100 V	Oxygen Index Test	IS 694 (Table-1, iii)(c&d) (11,8)(Cl. 10.5):2010, IS 10810 (Part-58): 1998
20.		Oxygen Index Test	IS 694 (Table-1, (iii)(c&d), (11,8) (Cl.10.5):2010 ASTM D 2863-09: 1995
21.		Per sulphate test (For tinned Copper Conductor)	IS 694 (Table-1, (iii)(a)(5) (Cl.10.11):2010, IS 8130 (Cl.7.1.1) 2013, IS 10810 (Part-4): 1984
22.		Shrinkage test	IS 694 (Table-1, iii)(c&d)(4) (Cl.5.4,8.4):2010, IS 5831 (Table-1,2) 1984 ,IS 10810 (Part-12): 1984
23.		Smoke Density	IS 694 (Table 1, (iii)(c&d) (14,11) (Cl.10.8):2010, IS 13360 (Part 6/sec 9): 2025
24.		Smoke Density	IS 694 (Table-1, (iii)(c&d) (14,11) (Cl.10.8):2010 ASTM D 2843: 1999
25.		Temperature Index Test	IS 694 (Table-1, (iii)(c&d) (12,9) (Cl. 10.7):2010, IS 10810 (Part -64): 2003
26.		Temperature Index Test	IS 694 (Table-1, (iii)(c&d) (12,9) (Cl.10.7):2010 ASTM D 2863- 09: 1995
27.		Tensile strength for Aluminium Conductor	IS 694 (Table-1, (iii)(c&d) (a)(2) (Cl.4.2):2010, IS 8130 (Cl. 7.2): 2013, IS 10810(Part-5): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
28.	Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables /Cords with Rigid and Flexible Conductor for Rated Voltages Up to And Including 1100 V	Tensile strength of insulation / sheath	IS 694 (Table-1, (iii)(c&d) (1) (Cl. 5.4,8.4):2010, IS 5831 (Table-1,2): 1984 IS 10810 (Part-7): 1984
29.		Thermal Stability	IS 694 (Table-1, (iii)(c&d) (7) (Cl. 5.4,8.4):2010, IS 5831 (Table-1,2) 1984 IS 10810 (Part-60): 1988
30.		Volume Resistivity	IS 694 (Table-1, (iii)(e)(3) (Cl.5.4,8.4):2010, IS 5831 (Table-1): 1984 IS 10810 (Part-43): 1984
31.		Wrapping test for Aluminium Conductor	IS 694 (Table-1, (iii) (a)(3) (Cl.4.2) 2010, IS 8130 (Cl. 7.2.2) 2013, IS 10810 (Part- 3): 1984
32.		Ageing in air oven- Elongation at Break	IS 7098 (Part-1) (Cl. 15.1(d) (e)(ii) & Cl.4.1, (table-1,2): 2025, IS 10810 (Part- 11): 1984
33.		Cross linked polyethylene insulated PVC sheathed cables working voltages up to and including 1100 volts	Ageing in air oven- Tensile Strength
34.	Annealing test for Copper Conductor		IS 7098 (Part-1) (Cl. 15.1(a)(i): 2025, IS 8130 (Cl. 7.1.2.1, 7.2.3)2013, IS 10810 (Part-1): 1984
35.	Resistivity test of Armour		IS 7098 (Part-1) (Cl.15.1(b) & Cl.13.6(g): 2025, IS 3975 (Cl. 8.4)1999, IS 10810 (Part- 42): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
36.	Cross linked polyethylene insulated PVC sheathed cables working voltages up to and including 1100 volts	Cold Bend Test	IS 7098 (Part-1) (Cl.15.4(a): 2025, IS 5831 (Cl. 4.1, (Table-2) 1984, IS 10810 (Part-20): 1984
37.		Cold Impact Test	IS 7098 (Part-1) (Cl. 15.4(b): 2025 of IS 5831(Cl. 4.1, (Table-2):1984 IS 10810 (Part-21): 1984
38.		Conductor resistance	IS 7098 (Part-1) (Cl. 15.1(a)(iv): 2025, IS 8130 (Cl.7.3(Table-1,2): 2013 IS 10810 (Part-5): 1984
39.		Dimension for armouring material	IS 7098 (Part-1) (Cl.15.1(b) Cl.13.3(a), : 2025 (b) IS 3975 (Cl.7) 1999, IS 10810 (Part-36): 1984
40.		Elongation at break of armouring material	IS 7098 (Part-1) (Cl. 15.1(b) Cl.13.6(b) 2025, IS 10810 (Part-37):1984
41.		Elongation at break of insulation & sheath	IS 7098 (Part-1) (Cl. 15.1(d) (e)(i Cl.4.1 (table-1,2):2025, IS 10810 (Part-7): 1984
42.		Flame retardance test on bunched cables	IS 7098 (Part-1) (Cl. 15.1.1 (C1)(C2)(C) Cl.16.11),:2025IS 10810 (Part -62): 1993
43.		Flame Retardance Test on Single Cable	IS 7098 (Part-1) (Cl. 15.1.1 (C1,C2)(b), Cl.16.10): 2025 IS 10810 (Part-61): 1988
44.		Flammability test	IS 7098 (Part-1) (Cl. 15.1(h) Cl.16.3):2025, IS 10810 (Part-53): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
45.	Cross linked polyethylene insulated PVC sheathed cables working voltages up to and including 1100 volts	Halogen Acid Gas Evaluation	IS 7098 (Part-1) (Cl. 15.1.1 (C2)(f) & Cl.16.13, 16.8):2025,IS 10810 (Part-59) 1988
46.		Heat shock test	IS 7098 (Part-1) (Cl. 15.1(e) (-vi) 2025, IS 5831(Cl.4.1) (Table-2) 1984, IS 10810 (Part-14): 1984
47.		High voltage Test	IS 7098 (Part-1) (Cl. 15.1(g) & Cl. 16.2) 2025, IS 10810 (Part-45): 1984
48.		Hot deformation test	IS 7098 (Part-1) (Cl. 15.1(e) (v)2025, IS 5831 (Cl. 4.1) (Table 2) 1984, IS 10810 (Part-15): 1984
49.		Insulation resistance (Volume Resistivity)	IS 7098 (Part-1) (Cl. 15.1(f) Cl.4.1(table-1)2025, IS 10810 (Part-43):1984
50.		Loss of mass test	IS 7098 (Part-1) (Cl. 15.1(e) –I 2025 IS 5831 (Cl. 4.1) (Table- 2):2013 IS 10810 (Part-10): 1984
51.		Mass of Zinc coating	IS 7098 (Part-1) (Cl. 15.1(b) Cl. 13.6 (f) 2025, IS 3975 (Cl.9.1)1999 IS 10810 (Part-41): 1984
52.		Oxygen Index Test	IS 7098 (Part-1) (Cl. 15.1.1 (C1,C2) (a) Cl.16.9)2025, IS 10810 (Part-58): 1998
53.		Oxygen Index Test	IS 7098 (Part-1) (Cl.15.1.1 (C1,C2)(a) & Cl.16.9)2025, ASTM D 2863-9: 1995

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
54.	Cross linked polyethylene insulated PVC sheathed cables working voltages up to and including 1100 volts	Hot Set Test	IS 7098 (Part-1) (Cl.15.1 (d)(3) & Cl.4.1 table (i):2025 & IS 10810 (Part-13): 1984
55.		Shrinkage test of Insulation & Sheath	IS 7098 (Part-1) (Cl. 15.1(d) (e)(iv) & Cl.4.1(Table-1) 2025, IS 5831: 1984, Cl.4.1 table (ii), IS 10810 (Part-12):1984
56.		Smoke Density	IS 7098 (Part-1) (Cl.15.1.1 (C2) (e) 2025 ASTM D 2843: 1999
57.		Temperature Index Test	IS 7098 (Part-1) 2025 (Cl.15.1.1 (C1,C2)(d)(g) Cl.16.14, IS 10810 (Part-64): 2003
58.		Temperature Index Test	IS 7098 (Part-1) 2025(Cl. 15.1.1 (C1,C2)-(d)(g) Cl.16.14, ASTM D 2863-09: 1995
59.		Tensile strength for Aluminium Conductor	IS 7098 (Part-1) (Cl. 15.1(a) (ii)2025, IS 8130 (Cl.7.2.1) 2013 IS 10810 (Part-2): 1984
60.		Tensile strength of armouring material	IS 7098 (Part-1) (Cl. 15.1(b) Cl.13.6(a), 2025, IS 10810 (Part-37):1984
61.		Tensile strength of insulation & sheath	IS 7098 (Part-1) (Cl. 15.1(d) (e)-I 2025, IS 5831(Cl.4.1 (table-1,2) 1984, IS 10810 (Part-7): 1984
62.		Thermal Stability	IS 7098 (Part-1) (Cl. 15.1(e) (vii) 2025, IS 5831 (Cl.4.1 (Table-2) 1984, IS 10810 (Part-60): 1988

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
63.	Cross linked polyethylene insulated PVC sheathed cables working voltages up to and including 1100 volts	Thickness of Insulation & Sheath	IS 7098 (Part-1) (Cl.15.1(C) & Cl.9.2,12.3, 14.3.1) (Table-3,5,8),2025 IS 10810 (Part-6): 1984
64.		Torsion test on Galvanized steel wire for armouring	IS 7098 (Part-1) (Cl. 15.1(b) Cl. 13.6(c) 2025, IS 3975 (Cl.8.2 of Table 6)1999, IS 10810 (Part-38):1984
65.		Uniformity of Zinc coating	IS 7098 (Part-1) (Cl.15.1(b) & Cl.13.6(e) 2025, IS 3975 (Cl.9.2) 1999, IS 10810 (Part- 40): 1984
66.		Water Absorption (Gravimetric)	IS 7098 (Part-1) (Cl.15.1(d) (v) & Cl.4.1(Table-1)2025, IS 10810 (Part-33): 1984
67.		Winding test on Galvanized steel strips for armouring	IS 7098 (Part-1) (Cl. 15.1(b) & Cl. 13.6(d) 2025, IS 10810 (Part-39): 1984
68.		Armour coverage percentage	IS 7098(PART-1):2025, Appendix C
69.		Wrapping test for Aluminium Conductor	IS 7098 (Part-1) (Cl. 15.1(a) (iii)2025, IS 8130(Cl.7.2.2) 2013 IS 10810 (Part-3): 1984
70.	PVC Insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 V	Ageing in air oven Elongation at Break of insulation & sheath	IS 1554 (Part-1) (Cl. 15.1(d)-2 1988, IS 5831(Cl. 4.1 (table 1,2) 1984, IS 10810 (Part-11): 1984
71.		Ageing in air oven Tensile strength of insulation & sheath	IS 1554(Part-1) (Cl. 15.1(d)(2) 1988, IS 5831 (Cl.4.1(table-1,2) 1984, IS 10810 (Part-11): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
72.	PVC Insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 V	Annealing test for Copper Conductor	IS 1554 (Part-1) (Cl. 15.1(a)-1): 1988, IS 8130 (Cl.7.1.2.1) 2013, IS 10810 (Part-1): 1984
73.		Resistivity Test for Armour	IS 1554 (Part-1) (Cl. 15.1(b)(2)(Vii) & 13.6 (g) 1988, IS 3975 (Cl.8.4) 1999, IS 10810 (Part-42): 1984
74.		Cold Bend Test	IS 1554 (Part-1) (Cl. 15.4) (a)1988, IS 5831(Cl.4.1) (Table-1,2) 1984, IS 10810 (Part-20):1984
75.		Cold Impact Test	IS 1554 (Part-1) (Cl. 15.4 )(b) 1988, IS 5831 (Cl.4.1) (Table-1,2) 1984, IS 10810 (Part-21): 1984
76.		Conductor resistance	IS 1554 (Part-1) (Cl. 15.1) (a)-4) 1988, IS 8130 (Cl.7.3) ((Table-1,2)2013, IS 10810 (Part-5):1984
77.		Dimension for armouring material	IS 1554 (Part-1) (Cl.15.1) (b)(i) 1988, IS 3975 (Cl.7 of Table 3 & 4):1999, IS 10810 (Part-36):1984
78.		Elongation at break of armouring material	IS 1554 (Part-1) (Cl. 15.1(b) (2)(ii) & Cl.13.6(b): 1988, IS 10810 (Part-37): 1984
79.		Elongation at break of insulation & sheath	IS 1554 (Part-1) (Cl. 15.1(d) (1) 1988, IS 5831 (Cl.4.1 (table-1,2) 1984, IS 10810 (Part-7): 1984
80.		Flame Retardance test on bunched cables	IS 1554 (Part-1) (Cl. 15.1.1 (C1,C2) (C)& Cl.16.7) 1988, IS 10810 (Part -62):1993

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
81.	PVC Insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 V	Flame Retardance Test on Single Cable	IS 1554 (Part-1) (Cl. 15.1.1 (C1,C2)(b) & (Cl.16.6),1988 ,IS 10810 (Part -61): 1988
82.		Flammability test	IS 1554 (Part-1) (Cl. 15.1(h) & 16.4 1988, IS 10810 (Part-53): 1984
83.		Halogen Acid Gas Evaluation	IS 1554 (Part-1) (Cl.15.1.1 (C2)(f) & Cl.16.9) 1988, IS 10810 (Part-59): 1988
84.		Heat shock test	IS 1554 (Part-1) (Cl. 15.1(d)-6 1988 IS 5831 (Cl.4.1 (Table-1,2) 1984 IS 10810 (Part-14): 1984
85.		High voltage Test (AC) water immersion	IS 1554 (Part-1) (Cl.15.1(f) & 16.3 1988, IS 10810 (Part 45):1984
86.		High voltage Test (AC) Room Temperature	IS 1554 (Part-1) (Cl.15.1(g) & 16.2 1988, IS 10810 (Part 45):1984
87.		High voltage Test (DC) Water Immersion	IS 1554 (Part-1) Cl. 15.1(f) & 16.3:1988, IS 10810 (Part-45): 1984
88.		Hot deformation test	IS 1554 (Part-1) (Cl. 15.1(d)-4 1988, IS5831 (Cl.4.1 (Table1,2) :1984, IS 10810 (Part-15):1984
89.		Insulation resistance constant	IS 1554 (Part-1) (Cl. 15.1(e) 1988, IS 5831 (Cl.4.1 (table-1) 1984, IS 10810 (Part-43): 1984
90.		Loss of mass test	IS 1554 (Part-1) (Cl.15.1(d)-5,1988 IS 5831 (Cl.4.1 (table-1,2),1984 IS 10810 (Part-10): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
91.	PVC Insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 V	Mass of Zinc coating	IS 1554 (Part-1) (Cl. 15.1(b) (2)(Vi) & 13.6(f) 1988, IS 3975 (Cl.9.1): 1999, IS 10810 (Part-41): 1984
92.		Oxygen Index Test	IS 1554 (Part-1) (Cl.15.1.1 (C1, C2) (a) & Cl.16.5:1988, IS 10810 (Part-58): 1998
93.		Oxygen Index Test	IS 1554 (Part-1) (Cl. 15.1.1 (C1, C2)(a) & (Cl. 16.5) 1988, (ASTM D2863-09: 1995
94.		Shrinkage test of Insulation & Sheath	IS 1554 (Part-1) (Cl.15.1(d)-3 1988, IS 5831(Cl. 4.1 (Table 1,2) 1984, IS 10810 (Part-12): 1984
95.		Smoke Density	IS 1554 (Part-1) (Cl.15.1.1 (C2) (e)1988, IS 10810(Part-63):1993
96.		Temperature Index Test	IS 1554 (Part-1) (Cl. 15.1.1 (C1, C2)(g) & Cl.16.10) 1988 ,IS 10810 (Part -64): 2003
97.		Temperature Index Test	IS 1554 (Part-1) (Cl. 15.1.1 (C1, C2)(g) & Cl.16.10) 1988 ASTM D2863-09: 1995
98.		Tensile strength & insulation & sheath	IS 1554 (Part-1) (Cl.15.1(d)-1: 1988, IS 5831(Cl.4.1 (table-1,2) 1984, IS 10810 (Part-7): 1984
99.		Tensile strength for Aluminium Conductor	IS 1554 (Part-1) (Cl. 15.1(a)-2):1988, IS 8130 (Cl.7.2.1) 2013, IS 10810 (Part-2): 1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
100.	PVC Insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 V	Tensile strength of armouring material	IS 1554 (Part- 1) (Cl. 15.1(b)(2)(i) Cl.13.6(a) 1988, IS 10810 (Part-37): 1984
101.		Thermal Stability	IS 1554 (Part-1) (Cl. 15.1(d)(7) 1988, IS 5831 (Cl.4.1(Table-1,2) 1984, IS 10810 (Pat-60): 1988
102.		Thickness of Insulation & Sheath	IS 1554 (Part-1) (Cl. 15.1(C) & Cl. 9.2,9.3, 12.3, 14.4.1, (Table-2,4,7) 1988, IS 10810 (Part-6): 1984
103.		Torsion test on Galvanized steel wire for armouring	IS 1554 (Part-1) (Cl.15.1(b) (2) (iii) & 13.6(c):1988, IS 3975 (Cl.8.2of Table 6): 1999, IS10810 (Part-38): 1984
104.		Uniformity of Zinc coating	IS 1554 (Part-1) (Cl. 15.1(b)(2) (v) & 13.6(e) 1988, IS 3975 (Cl. 9.2): 1999, IS 10810 (Part-40): 1984
105.		Volume Resistivity	IS 1554 (Part-1) (Cl. 15.1(e) 1988, IS 5831(Cl. 4.1(table-1) 1984, IS 10810 (Part-43): 1984
106.		Winding test on Galvanized steel strips for armouring	IS 1554 (Part-1) (Cl. 15.1(b) & 13.6 (d) :1988, IS 10810 (Part-39): 1984
107.		Armour coverage percentage	IS 1554(PART-1):1988, Appendix C
108.		Wrapping test for Aluminium Conductor	IS 1554 (Part-1) (Cl.15.1(a)-3) :1988, IS 8130 (Cl.7.2.2) 2013 IS 10810 (Part 3): 1984

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
109.	Specification for conduits for electrical installations	Bending Test	IS 9537 (Part 3) (Cl.9.2): 1983
110.		Classification	IS 9537 (Part 3) (Cl.5): 1983
111.		Collapse Test	IS 9537 (Part 3) (Cl. 9.5): 1983 & IS 9537 (Part 1): (Cl. 9.5) 1980
112.		Compression test	IS 9537 (Part 3) (Cl.9.3): 1983 IS 9537(Part 1) (Cl. 9.3):1980
113.		Construction	IS 9537 (Part 3) (Cl.8):1983 & IS 9537 (Part-1): 1980
114.		Dimensions	IS 9537 (Part 3) (Cl.7, 7.1, 7.2 & 7.3):1983
115.		Durability of Marking	IS 9537 (Part 3) (Cl.6.2): 1983 & IS 9537 (Part 1) (Cl. 6.4): 1980
116.		Electrical Characteristics	IS 9537 (Part 3) (Cl.12): 1983 & IS 9537 (Part-1) (Cl.12.1.1): 1980
117.		Impact Test	IS 9537 (Part 3) (Cl. 9.4): 1983, IS 9537 (Part 1) (Cl. 9.4): 1980
118.		Insulation Resistance	IS 9537 (Part 3) (Cl.12): 1983 & IS 9537 (Part-1) (Cl. 12.1.2): 1980
119.		Marking	IS 9537 (Part 3) (Cl.6): 1983 & IS 9537 (Part 1): 1980
120.		Mechanical Properties	IS 9537 (Part 3) (Cl.9): 1983
121.		Resistance to burning	IS 9537 (Part 3) (Cl.11): 1983 & IS 9537 (Part-1) : (Cl. 11) 1980
122.	Resistance to heat	IS 9537 (Part 3) (Cl.10): 1983	
123.	Uniformity of the Wall Thickness	IS 9537 (Part 3) (Cl.7.4): 1983	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
124.	Halogen Free Flame Retardant (HFFR) Cables for Working voltages up to and including 1100 Volt	Conductor resistance test	Table 2 of IS 17048:2018 & IS 10810 (part-5):1984
125.		Annealing test for copper	Table 2 of IS 17048:2018 & IS 10810 (Part 1):1984
126.		Per sulphate test for tinned copper	Table 2 of IS 17048:2018 & IS 10810 (Part-4):1984
127.		Tensile test for aluminium	Table 2 of IS 17048:2018 & IS 10810 (Part-2):1984
128.		Wrapping test for Aluminium	Table 2 of IS 17048:2018 & IS 10810 (Part-3):1984
129.		Test for overall dimensions and thickness of insulation and sheath	Cl 4.2.3, 4.5.3 & 4.5.5 of IS 17048:2018 & IS 10810 (Part-6):1984
130.		Tensile strength test on insulation and sheath (before ageing)	Annex A & B of IS 17048:2018 & IS 10810 (Part-7):1984
131.		Elongation at break on insulation and sheath (before ageing)	Annex A & B of IS 17048:2018 & IS 10810 (Part-7):1984
132.		High voltage test	Cl .5.1 of IS 17048:2018 & IS 10810 (part-45):1984
133.		Tensile strength test on insulation and sheath (After ageing)	Annex A & B of IS 17048:2018 & IS 10810 (Part-11):1984

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# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

**Eko Pro Engineers Private Limited**

32/37, South Side of GT Road, UPSIDC Industrial Area  
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QAI/CIA/TL/2025/0113

Valid from: 24 April 2025

\*Scope Amended (w.e.f.): 08 Sep 2025

Valid until: 23 April 2027

Accreditation Standard: ISO/IEC 17025:2017

### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
134.	Halogen Free Flame Retardant (HFFR) Cables for Working voltages up to and including 1100 Volt	Elongation at break on insulation and sheath (After ageing)	Annex A & B of IS 17048:2018 & IS 10810 (Part-11):1984
135.		Ageing in air oven on insulation and sheath	Annex A & B of IS 17048:2018 & IS 10810 (Part-11):1984
136.		Insulation resistance test	Annex A of IS 17048:2018 & IS 10810 (Part-43):1984
137.		Oxygen index	Cl .5.4 of IS 17048:2018 & IS 10810 (part-58):1998
138.		Temperature index	Cl .5.5 of IS 17048:2018 & IS 10810 (part-64):2003
139.		Hot deformation test of insulation and sheath	Annex A & B of IS 17048:2018 & IS 10810 (Part-15):1984
140.		Assessment of halogen (Ph)	Cl 5.7 and Annex D of IS 17048:2018
141.		Assessment of halogen (Conductivity)	Cl 5.7 and Annex D of IS 17048;2018
142.		Assessment of halogen (chlorine and bromine content expressed as content of HCL)	Cl 5.7 and Annex D of IS 17048:2018 & IS 10810(Part-59):1988
143.		Assessment of halogen (Presence of fluorine)	Cl 5.7 and Annex D of IS 17048:2018
144.		Assessment of halogen (fluorine content)	Cl 5.7 and Annex D of IS 17048:2018
145.		Hot set test (Permanent elongation set)	Annex B of IS 17048:2018 & IS 10810 (Part-30):1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
146.	Halogen Free Flame Retardant (HFFR) Cables for Working voltages up to and including 1100 Volt	Hot set test (Elongation under Load)	Annex B of IS 17048:2018 & IS 10810 (Part-30):1984
147.		Cold impact test	Annex A of IS 17048:2018 & IS 10810 (Part-21):1984
148.		Flame retardant test	Cl 5.11 of IS 17048:2018 & IS 10810 (Part-61):1988
149.		Cold bend test	Cl 4.2 & Annex A & B of IS 17048:2018 & IS 10810(Part-20):1984
150.		Water immersion test(Effect of water on sheath of cable)	Cl 5.13 of IS 17048:2018
151.	Thermosetting insulation fire survival cable for fixed installation having low emission of smoke and corrosive gasses when affected by fire for working voltages up to and including 1100volt AC and 1500Volt DC	Test on conductor: -annealing test for copper	Cl.17.1, table-9 of IS 17505: (part-1):2021 & IS 10810 (part-1):1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
152.	Thermosetting insulation fire survival cable for fixed installation having low emission of smoke and corrosive gasses when affected by fire for working voltages up to and including 1100volt AC and 1500Volt DC	Test on conductor: -Conductor resistance test	Cl.17.1, table-9 of IS 17505 (part-1):2021 & IS 10810 (part-5):1984
153.		Test on conductor: -per sulphate test for tinned conductor	Cl.17.1, table-9 of IS 17505 (part-1):2021 & IS 10810 (part-4):1984
154.		Test for armouring wires: - Dimensions	Cl.15.3of IS 17505(part-1):2021 & IS 10810 (part-36):1984
155.		Test for armouring wires: - Tensile strength test	Cl.15.4(a) of IS 17505(part-1):2021 & IS 10810 (part-37):1984
156.		Test for armouring wires: - Elongation at break	Cl.15.4(b)of IS 17505(part-1):2021 & IS 10810 (part-37):1984
157.		Test for armouring wires: - torsion test	Cl.15.4(c)of IS 17505(part-1):2021 & IS 10810 (part-38):1984
158.		Test for armouring wires: - winding test	IS 10810 (part-39):1984
159.		Test for armouring wires: - uniformity of zinc coating	Cl.15.4(d)of IS 17505(part-1):2021 & IS 10810 (part-40):1984
160.		Test for armouring wires: -Mass of zinc coating	Cl.15.4(e)of IS 17505(part-1):2021 & IS 10810 (part-41):1984
161.		Test for armouring wires: - resistivity test	Cl.15.4(f),15.6.1 & Table 8 of IS 17505(part-1):2021 & IS 10810 (part-42):1984

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### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
162.	Thermosetting insulation fire survival cable for fixed installation having low emission of smoke and corrosive gasses when affected by fire for working voltages up to and including 1100volt AC and 1500Volt DC	Test for insulation and outer sheath: -Tensile strength before ageing	Cl.17.1, table-1,2 & 9 of IS 17505(part-1):2021 & IS 10810 (part-7):1984
163.		Test for insulation and outer sheath: -elongation at break before ageing	Cl.17.1, table-1,2 & 9 of IS 17505(part-1):2021 & IS 10810 (part-7):1984
164.		Test for insulation and outer sheath: -Tensile strength after ageing	Cl.17.1, table-1,2 & 9 of IS 17505 (part-1):2021 & IS 10810 (part-11):1984
165.		Test for insulation and outer sheath: -elongation at break after ageing	Cl.17.1, table-1,2 & 9 of IS 17505 (part-1):2021 & IS 10810 (part-11):1984
166.		Test for insulation and outer sheath: -Hot set test (permanent elongation)	Cl.17.1, table-1,2 & 9 of IS 17505 (part-1):2021 & IS 10810 (part-30):1984
167.		Test for insulation and outer sheath: -Hot set test (Elongation Under Load)	Cl.17.1, table-1,2 & 9 of IS 17505 (part-1):2021 & IS 10810 (part-30):1984
168.		Test for insulation and outer sheath: -shrinkage test	Cl.17.1, table-1&9 of IS 17505 (part-1):2021 & IS 10810 (part-12):1984
169.		Test for insulation and outer sheath: -Heat shock test	Cl.17.1, table-2&9 of IS 17505 (part-1):2021 & IS 10810 (part-14):1984
170.		Test for insulation and outer sheath: -cold bend test	Cl.17.1, table-2&9 of IS 17505 (part-1):2021 & IS 10810 (part-20):1984

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Accreditation Standard: ISO/IEC 17025:2017

### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
171.	Thermosetting insulation fire survival cable for fixed installation having low emission of smoke and corrosive gasses when affected by fire for working voltages up to and including 1100volt AC and 1500Volt DC	Test for insulation and outer sheath: -cold impact test	Cl.17.1, table-2&9 of IS 17505 (part-1):2021 & IS 10810 (part-21):1984
172.		Test for insulation and outer sheath: -Water absorption (Gravimetric)	Cl.17.1, table-1&9 of IS 17505 (part-1):2021 & IS 10810 (part-33):1984
173.		Test for insulation and outer sheath: -Oxygen index test	Cl.17.1,18.6 table- 9 of IS 17505 (part-1):2021 & IS 10810 (part-58):1998
174.		Test for insulation and outer sheath: -temperature index test	Cl.17.1,18.7 table- 9 of IS 17505(part-1):2021 & IS 10810(part-64):2003
175.		Test for insulation and outer sheath: -assessment of halogen	Annex F of IS 17505(part-1):2021
176.		Effect of water on sheath; - tensile strength	Cl.17.1,18.9 table- 2 &9 of IS 17505(part-1):2021 & IS 10810 (part-7):1984
177.		Effect of water on sheath; - elongation at break	Cl.17.1,18.9 table- 2 &9 of IS 17505(part-1):2021 & IS 10810 (part-7):1984
178.		High voltage test	Cl.17.1,18.2 table- 9 of IS 17505 (part-1):2021 & IS 10810 (part-45):1984
179.		Flammability test (flame test on single cable)	Cl.17.1,18.5.2 table- 9 of IS 17505 (part-1):2021 & IS 10810 (part-61):1988
180.		Flammability test(Flame test on bunched cable)	Cl.17.1,18.5.2 table- 9 of IS 17505 (part-1):2021 & IS 10810 (part-62):1993
181.		Armour coverage percentage	Cl.15.1.2 &, Annex-B of IS 17505(part-1):2021

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Accreditation Standard: ISO/IEC 17025:2017

### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
182.	Thermosetting insulation fire survival cable for fixed installation having low emission of smoke and corrosive gasses when affected by fire for working voltages up to and including 1100volt AC and 1500Volt DC	Assessment of halogen (PH)	Cl.17.1, Table 1,2 & 9, Annex-F of IS 17505(part-1):2021
183.		Assessment of halogen (conductivity)	Cl.17.1, Table 1,2 & 9, Annex-F of IS 17505(part-1) :2021
184.		Assessment of halogen (Florine content)	Cl.17.1, Table 1,2 & 9, Annex-F of IS 17505(part-1) :2021
185.		Assessment of halogen (Presence of fluorine)	Cl.17.1, Table 1,2 & 9, Annex-F of IS 17505(part-1) :2021
186.		Insulation resistance test	Cl.17.1, Table 1&9 of IS 17505 (part-1) :2021& IS 10810 (Part-43):1984
187.		Test of thickness of insulation and sheath	Cl.11,14,16 & table 4&6 of IS 17505 (part-1): :2021 & IS 10810 (part-6):1984
188.		Marking	Cl.6.0 of IS 9537(Part-2):1981
189.	Rigid steel conduits	Classification	Cl.5.0 of IS 9537(Part-2):1981
190.		Dimensions (Outside dimeter)	Cl.7.1 of IS 9537(Part-2):1981
191.		Dimensions (wall thickness of conduit)	Cl.7.1 of IS 9537(Part-2):1981
192.		Dimensions (checking minimum dimeter)	Cl.7.2.1 of IS 9537(Part-2):1981
193.		Dimensions (checking maximum outside dimeter of conduit)	Cl.7.2.2 of IS 9537(Part-2) :1981
194.		Dimensions: measurement of thickness of the conduits	Cl.7.3 of IS 9537(Part-2) :1981
195.		Dimensions-uniformity of wall thickness	Cl.7.3.3 of IS 9537(Part-2) :1981

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Accreditation Standard: ISO/IEC 17025:2017

### Electrical Testing

Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables &amp; Wires</b>		
196.	Rigid steel conduits	Test for screw thread	IS 4211 & Appendix-B of IS 9537(Part-2): :1981
197.		Construction	Cl.8.0 of IS 9537(Part-1):1980
198.		Mechanical properties: Bending test	Cl.9.2 of IS 9537(Part-2):1981
199.		Mechanical properties: compression test	Cl.9.3 of IS 9537(Part-1):1980
200.		External influences	Cl.13 of IS 9537(Part-1):1980
201.		Durability of marking	Cl.6.4 of IS 9537(Part-1):1980

**\*Note:**

**Scope Extension 1:**

**Following scope of accreditation is extended w.e.f. 08 Sep 2025**

**Electrical Testing-**

- Domestic Electrical Appliances (S. No.- 1 to 516; Page no. -50 to 95)
- Cables and Wires (S. No.- 1 to 201; Page no. -96 to 116)

**Following scope of accreditation is deleted w.e.f. 08 Sep 2025**

**Chemical Discipline - Metals and alloys (S.No. 88 to 105)-** Staining test, Cold Retention Capability, Heat Retention Capability, Cadmium, Lead in Domestic Stainless Steel Vacuum Flask / Bottle, Insulated Flask for Domestic Use,

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Accreditation Standard: ISO/IEC 17025:2017

Insulated Containers for Food Storage and Potable Water Bottles (Copper, Stainless Steel, Aluminium) under Chemical Discipline

### **Mechanical Discipline- Mechanical properties of metals (S.No. 257 to 296) –**

Air Pressure Test, Bursting Pressure Test, Operating Test For Regulating Device, Proof Pressure Test, Removal of Lid Under Pressure, Safety Pressure Relief Device Test, Spring Load Mechanism, Capacity, Gasket, Handles and Knobs in Pressure cooker

Capacity Test, Drop Impact Test, Pendulum Impact Test, Strength of Shoulder Strap, Test for Cord, Test for Cord Chain, Leakage Test, Staining Test (Stainless Steel Bottle Only), Lever, Device for Operating or Regulating Flow Test, Test for Stability of Bottle, Load Test in Potable water bottles (Copper, Stainless steel, aluminium).

Shapes and Dimensions (Thickness), Staining Test, Mechanical Shock Test, Thermal Shock Test, Dry Heat Test, Coating Thickness Test, Nominal Capacity Test, Fragmentation Test, Ball Drop Test, Free Fall Test in Stainless steel utensils

Bending Strength, Torque Strength, Impact Strength, Fatigue Resistance, Leakage, Thermal Insulation, Heat Resistance, Washing Resistance, Burning Resistance in Performance of Handles and Handle Assemblies Attached to Cookware.

### **Mechanical Discipline- Mechanical properties of metals (S. No. 381 to 442)-**

Arrangement for Holding and Suspension, Capacities, Drop Impact, Fixing Strength of the Handle, Joint Leak Test, Leakage Test, Length of the Shoulder strap, Manufacture and Workmanship, Marking, Material (Thickness), Packaging, Pendulum Impact, Pour Test, Stability of Flask/Bottle, Test for Strength of Cord, Test for Strength of Shoulder Strap in Domestic Stainless Steel Vacuum Flask / Bottle

Capacity Test, Drop Impact Test, Joint Leak Test, Leakage Test, Lever Device for operating or Regulating Flow Test, Manufacture and Workmanship, Marking, Material (Thickness), Packaging, Pendulum Impact Test, Pour Test, Seepage

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Test, Test for Fixing Strength of the Handle, Test for Length of the Shoulder strap, Test for Stability of Flask/Bottle, Test for Strength of Cord, Test for Strength of Shoulder Strap in Insulated Flask for Domestic Use.

Capacity Test, Cleaning, Drop Impact Test, Joint Leak Test, Leakage Test, Length of the Shoulder strap, Manufacture and Workmanship, Marking, Material (Thickness), Packaging, Pendulum Impact Test, Seepage Test, Stability of Insulated Container, Strength of the Handle, Test for Strength of Shoulder Strap in Insulated Containers for Food Storage

Capacity Test, Drop Impact Test, Leakage Test, Lever Device for operating or Regulating Flow Test, Load test, Manufacture and Workmanship, Marking, Material (Thickness), Packaging, Pendulum Impact Test, Test for Stability of Bottle

Test for Strength of Cord, Test for Strength of Cord Chain, Test for Strength of Shoulder Strap in Potable Water Bottles (Copper, Stainless Steel, Aluminium).

