

Quality And Accreditation Institute

Centre for Laboratory Accreditation



Certificate of Accreditation

Atmy Analytical Labs Private Limited (Unit-2)

B-19, Ecotech-1 Extension, Kasna,
Greater Noida-201310, 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/2023/0031

(Date of First Accreditation: 11 November 2023 – 10 November 2025)

Valid from: 11 November 2025

Valid until: 10 November 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
	Metals and Alloys		
1.	Steel (Carbon steel & Low alloy steel)	Carbon	IS:8811: 1998
2.		Carbon	IS 228 Part-1: 2025
3.		Carbon	ASTM E 415:2021
4.		Silicon	ASTM E-415-2021
5.		Silicon	IS:8811: 1998
6.		Manganese	ASTM E-415-2021
7.		Manganese	IS:8811: 1998
8.		Sulphur	ASTM E-415-2021
9.		Sulphur	IS:8811: 1998
10.		Sulphur	IS:228, Part-9: 1989
11.		Phosphorus	ASTM E-415-2021
12.		Phosphorus	IS:8811: 1998
13.		Phosphorus	IS:228, Part-3: 2024
14.		Chromium	ASTM E-415-2021
15.		Chromium	IS:8811: 1998
16.		Nickel	IS:8811: 1998
17.		Nickel	ASTM E-415-2021

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
18.	Steel (Carbon steel & Low alloy steel)	Molybdenum	ASTM E-415-2021
19.		Molybdenum	IS:8811: 1998
20.		Copper	ASTM E-415-2021
21.		Copper	IS:8811: 1998
22.		Vanadium	IS:8811: 1998
23.		Vanadium	ASTM E-415-2021
24.		Aluminium	IS:8811: 1998
25.		Aluminium	ASTM E-415-2021
26.		Titanium	ASTM E-415-2021
27.		Titanium	IS:8811: 1998
28.		Cobalt	ASTM E-415-2021
29.		Cobalt	IS:8811: 1998
30.		Tin	ASTM E-415-2021
31.		Tin	IS:8811: 1998
32.		Boron	ASTM E-415-2021
33.		Boron	IS:8811: 1998
34.		Niobium	ASTM E-415-2021
35.		Niobium	IS:8811: 1998
36.		Lead	ASTM E-415-2021
37.		Nitrogen	ASTM E-415-2021

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
38.	Stainless steel	Carbon	ASTM E 1086: 2022
39.		Carbon	IS:9879: 1998
40.		Carbon	IS:228, Part-1: 2025
41.		Silicon	ASTM E 1086: 2022
42.		Silicon	IS:9879: 1998
43.		Manganese	IS:9879: 1998
44.		Manganese	ASTM E 1086: 2022
45.		Sulphur	IS:228, Part -9: 1989
46.		Sulphur	ASTM E 1086: 2022
47.		Sulphur	IS:9879: 1998
48.		Phosphorus	ASTM E 1086: 2022
49.		Phosphorus	IS:9879: 1998
50.		Phosphorus	IS:228, Part-3: 2024
51.		Chromium	IS:9879: 1998
52.		Chromium	ASTM E 1086: 2022
53.		Nickel	ASTM E 1086: 2022
54.		Nickel	IS:9879: 1998
55.		Molybdenum	IS:9879: 1998

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
56.	Stainless steel	Molybdenum	ASTM E 1086: 2022
57.		Copper	ASTM E 1086: 2022
58.		Copper	IS:9879: 1998
59.		Vanadium	JIS G1253: 2002
60.		Aluminium	ASTM E 1086: 2022
61.		Titanium	JIS G1253: 2002
62.		Cobalt	JIS G1253: 2002
63.		Lead	JIS G1253: 2002
64.		Niobium	JIS G1253: 2002
65.		Tungsten	JIS G1253: 2002
66.		Cast Iron	Carbon
67.	Silicon		ASTM E 1999: 2023
68.	Manganese		ASTM E 1999: 2023
69.	Sulphur		ASTM E 1999: 2023
70.	Chromium		ASTM E 1999: 2023
71.	Copper		ASTM E 1999: 2023
72.	Lead		ASTM E 1999: 2023
73.	Molybdenum	ASTM E 1999: 2023	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
74.	Cast Iron	Nickel	ASTM E 1999: 2023
75.		Phosphorus	ASTM E1999: 2023
76.		Phosphorus	IS:228, Part-3: 2024
77.		Tin	ASTM E 1999: 2023
78.		Titanium	ASTM E 1999: 2023
79.	Aluminium & its alloys	Chromium	ASTM E 1251: 2024
80.		Chromium	IS:11035: 1984
81.		Copper	ASTM E 1251: 2024
82.		Copper	IS:11035: 1984
83.		Iron	ASTM E 1251: 2024
84.		Iron	IS:11035: 1984
85.		Lead	ASTM E 1251: 2024
86.		Lead	IS:11035: 1984
87.		Magnesium	ASTM E 1251: 2024
88.		Magnesium	IS:11035: 1984
89.		Manganese	ASTM E 1251: 2024
90.		Manganese	IS:11035: 1984
91.		Nickel	ASTM E 1251: 2024

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
92.	Aluminium & its alloys	Nickel	IS:11035: 1984
93.		Silicon	ASTM E 1251: 2024
94.		Silicon	IS:11035: 1984
95.		Tin	ASTM E 1251: 2024
96.		Tin	IS:11035: 1984
97.		Titanium	ASTM E 1251: 2024
98.		Titanium	IS:11035: 1984
99.		Zinc	ASTM E 1251: 2024
100.		Zinc	IS:11035: 1984
101.		Copper & its alloys	Aluminium
102.	Iron		EN 15079: 2015
103.	Lead		EN 15079: 2015
104.	Manganese		EN 15079: 2015
105.	Nickel		EN 15079: 2015
106.	Phosphorus		EN 15079: 2015
107.	Silicon		EN 15079: 2015
108.	Tin		EN 15079: 2015
109.	Zinc		EN 15079: 2015

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
110.	Zinc & its alloys	Aluminium	IS:2599: 1983
111.		Cadmium	IS:2599: 1983
112.		Chromium	IS:2599: 1983
113.		Copper	IS:2599: 1983
114.		Iron	IS:2599: 1983
115.		Lead	IS:2599: 1983
116.		Magnesium	IS:2599: 1983
117.		Nickel	IS:2599: 1983
118.		Tin	IS:2599: 1983



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallic Coatings and Treatment Solutions		
1.	Galvanized Steel & allied coated products, Powder Coatings	Coating mass of zinc	IS 6745:1972
2.		Uniformity of coating	IS 2633: 1986
3.	Organic Coatings on Aluminium Extrusions and Panels	Resistance to Humidity test	AAMA 2605: 2005
4.	Phosphate Coated panels	Phosphate Coating Thickness	IS:14503: 2016
5.	Electroplated Coating Articles	Measurement of Coating Thickness	IS 3203:1982 RA 2021 (BNF JET Method)



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Corrosion Tests		
1.	Galvanized steel& allied coated products, Powder Coatings	Resistance to Corrosion (Salt Spray Test)	ASTM B117: 2018
2.		Resistance to Corrosion (Salt Spray Test)	ISO 9227:2022
3.	Electroplated and Anodized Aluminium Coatings	Resistance to Corrosion (Salt Spray Test)	IS 9844: 1981
4.		Corrosion / Rusting resistance	IS 6910:1985 RA2021 IS 302 Part-1:2008 RA2016



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Fighting Equipment's and Accessories		
1.	Protective clothing, Textile	Liquid chemical penetration resistance	IS 15758 Part-3:2017 RA2018 ISO 13994:2005
2.		Surface wetting	ISO 4920:2012
3.		pH value	IS 1390:2022
4.	Potable fire extinguisher	Resistance to corrosion external	Clause 7.6.1, IS 15683:2018, Clause 6.6.1 IS 16018:2012
5.		Resistance to corrosion internal	Clause 7.6.2, IS 15683:2018, Clause 6.6.2 IS 16018:2012
6.	Dry chemical powder for firefighting extinguisher	Determination of mono ammonium phosphate	IS 4308:2019
7.		Determination of Sodium bicarbonate	IS 4308:2019
8.		Determination of Potassium bicarbonate.	IS 4308:2019
9.		Determination of Eutectic chloride mixture based on salts of sodium, potassium and barium in D type dry chemical powder	IS 4308:2019
10.		Apparent density	IS 4308:2019
11.		Hygroscopicity	IS 4308:2019



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
12.	Dry chemical powder for firefighting extinguisher	Water repellancy test	IS 4308:2019
13.		Moisture content	IS 4308:2019
14.		Rate of flow (efficient fluidity)	IS 4308:2019



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Mechanical Properties of Metals		
1.	(Metals Ferrous & Non-ferrous (Sheet, strip, structural steel/High strength deformed bar/ welding steel/ Fasteners, welding electrodes/wires))	Tensile Strength/ Breaking load	IS 1608: Part-1: 2022
2.		Elongation	IS 1608: Part-1: 2022
3.		Yield Stress	IS 1608: Part-1: 2022
4.		0.2% proof stress	IS 1608: Part-1: 2022
5.		Reduction area	IS 1608: Part-1: 2022
6.		Brinell Hardness	IS 1500: Part 1: 2019
7.		Vickers Hardness	IS 1501: Part-1: 2025
8.		Rockwell hardness	IS 1586: Part-1: 2025
9.		Impact test	IS 1757: Part-1: 2020
10.		Cupping test	IS 10175: 2018
11.		Pencil hardness	IS 101 Part -5 Sec. 1: 1988
12.		Torsion tests	IS: 1717: 2018
13.		Wrapping test	IS 1755: 2018
14.		Bend test	IS 1599: 2023
15.	(Metals Ferrous & Non-ferrous (Sheet, strip, structural steel/High strength deformed	Bend test	ISO 7438: 2020
16.		Flattening test	IS 2328: 2018
17.		Drift Expansion test	IS 2335: 2005

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	Mechanical Properties of Metals		
18.	bar/ welding steel/ Fasteners, welding electrodes/wires)	Crushing test	IS 3601: 2006
19.		Reverse bend test	IS 1716: 2023
20.		Flaring	IS 17875:2022
21.		Flange test	IS 2330: 2011
22.		Head soundness	IS 1367: Part – 3: 2017
23.		Head soundness	ISO 898; Part-1: 2013
24.		Surface roughness	IS 277:2018, IS 3073



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metallography Test		
1.	Ferrous Materials, Alloys & Products	Microstructure	ASM Vol. 9
2.		Microstructure	IS 7754: 1975
3.		Microstructure	ASTM A898-09 (2020)
4.		Microstructure	ISO 1949: 1983
5.		Macro examination	IS 11371: 2022
6.		Macro examination	IS 13015:2012
7.		Macro examination	ASTM E381:2017
8.		Grain size	IS 4748: 2021
9.		Grain size	ISO 643: 2019
10.		Inclusion rating	IS 4163: 2021
11.		Inclusion rating	ISO 4967: 2013
12.		Decarburization	IS 6396: 2023
13.		Decarburization	ISO 3887: 2017



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
1.	Plastic products/ Moulding Compounds/ Thermoplastic/Composites /Resin/Pipes/Sheets/Foam, Thermosetting Synthetic Resin Bonded Laminated, Cables & accessories, Parts of domestic electric appliance	Melt Flow Rate	IS 13360 (Part 4/Sec-1): 2025
2.		Melt Flow Rate	ASTM D 1238-2023
3.		Tensile strength	IS 13360 (part-5/sec-1):2021
4.		Tensile strength	ASTM D 638:2014
5.		Hardness- Shore A	IS 13360 (part 5/ Sec 11) -2013
6.		Hardness- Shore D	IS 13360 (part 5/ Sec 11) -2013
7.		Hardness (IRHD)	IS 5382-2018
8.		Heat Ageing	IS 17953-2023
9.		Heat Ageing	IS 7888-1976
10.		Flexural Modulus	IS 13360 Part 5 Sec 7-2022
11.		Tensile Modulus of Elasticity	IS 13360 Part 5 Sec 1-2021
12.		Tensile Modulus of Elasticity	IS 13360 Part 5 Sec -2022
13.		Elongation	IS 13360 part-5, Sec-1:2008
14.		Elongation	ISO 527 part-2: 2012
15.		Elongation	ASTM D 638: 2014
16.		Vicat softening temperature	IS 13360 part-6 sec-1: 2018
17.		Vicat softening temperature	ASTM D 1525: 2017
18.		Vicat softening temperature	IS 12235 part-2: 2004

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
19.	Plastic products/ Moulding Compounds/ Thermoplastic/ Composites /Resin/Pipes/ Sheets/Foam, Thermosetting Synthetic Resin Bonded Laminated, Cables & accessories, Parts of domestic electric appliance	Vicat softening temperature	IS 6307: 2003
20.		Flammability/Rate of burning	ASTM D 635: 2018
21.		Flammability/Rate of burning	UL-94: 2021
22.		Flammability/Rate of burning	IS 11731 part-1: 1986
23.		Flammability/Rate of burning	IS 11731 part-2:1986
24.		Izod Impact	ASTM D 256: 2010
25.		Izod Impact	ISO 180: 2000
26.		Charpy Impact	ISO 179: 2010
27.		Charpy Impact	ASTM D 6110: 2010
28.		Tensile modulus	ASTM D 638: 2014
29.		Tensile modulus	IS 13360 part-5, sec-25: 2004
30.		Tensile modulus	IS 17077 part-2: 2020
31.		Tensile modulus	ISO 527 part-2: 2012
32.		Heat deflection temperature (HDT)	IS 13360 part-6, sec-3: 2022
33.		Heat deflection temperature (HDT)	ISO 75 part-1: 2020
34.		Heat deflection temperature (HDT)	ASTM D 648: 2018
35.		Flexural modulus	ASTM D 790
36.		Glow wire test	IS 11000 Part-2 sec-1:2018

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Plastics and Plastic Products		
37.	Plastic products/ Moulding Compounds/ Thermoplastic/ Composites /Resin/Pipes/ Sheets/Foam, Thermosetting Synthetic Resin Bonded	Smoke density test	ASTM D 2843:2022
38.	Laminated, Cables & accessories, Parts of domestic electric appliance	Smoke density test	IS 13360 part-6: sec: 9: 2022
39.		Limiting Oxygen Index	ASTM D 2863: 2019
40.		Limiting Oxygen Index	ISO 4589-2:2017
41.		Limiting Oxygen Index	IS 13501:2018



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Rubber and Rubber Products		
1.	Rubber Vulcanizate/ Rubber Product/Rubber Composites/Thermoplastic	Flammability HB&V/ Rate of burning	UL 94: 2021
2.		Flammability HB&V/ Rate of burning	IS 11731 part-1
3.		Flammability HB&V/ Rate of burning	IS 11731 part-2
4.		Flammability HB&V/ Rate of burning	IS 11239 part-12
5.		Thickness Uniformity	IS 13098-2024
6.		Elongation	IS 3400 Part 1-2021
7.		Strength of Splice	IS 13098-2024
8.		Set After Ageing	IS 13098-2024
9.		Accelerated Ageing	IS 3400 Part 4-2012
10.		Hardness (Shore A)	ASTMD2240: 2015
11.		Hardness (Shore A)	IS:3400, Part-23: 2012
12.		Hardness (Shore D)	ASTMD2240: 2015
13.		Hardness (Shore D)	IS:3400, Part-23: 2012
14.		Rubber deterioration (Surface Ozone Cracking)	ASTMD1149: 2016

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Rubber and Rubber Products		
15.	Rubber Vulcanizate/ Rubber Product/Rubber Composites/Thermoplastic	Rubber deterioration (Surface Ozone Cracking)	JIS K 6301: 1995
16.		Tensile strength/Elongation at break	IS:3400, Part-1: 2012
17.		Tensile strength/Elongation at break	ISO 37: 2011
18.		Tear Strength	IS:3400, Part-17: 2012
19.		Tear Strength	ISO 34- 1:2010
20.		Tear Strength	ASTMD624: 2020



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous		
1.	Firefighting products & Fire extinguishers, Home appliances	Seam Breaking strength	IS /ISO 13935-2:2014 RA2018
2.		Clothing mass	IS 16890:2018
3.		Sizes / Dimension (Length, Width, Height, Thickness, wall thickness, Diameter)	IS 16890:2018, IS 15683:2018, IS 16018:2012, IS 16874:2018 IS 884:1985 RA2020
4.		Puncture resistance	ISO 13996:1999
5.		Heat resistance	ISO 17493:2016
6.		Tensile strength	IS 1969 Part-1:2018
7.		Impact resistance	IS 15683:2018, IS 884:1985 RA 2020
8.		Load resistance test	IS 884:1985 RA 2020
9.		Tear strength	IS 6489 Part-2
10.		Resistance to temp. change	IS 15683:2018
11.		Leakage test	IS 15683:2018
12.		Vibration resistance	IS 15683:2018
13.		Intermittent discharge	IS 15683:2018, IS 16018:2012
14.		Operating temperature	IS 15683:2018, IS 16018:2012

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
15.	Firefighting products & Fire extinguishers, home appliances	Exposure to Extinguishing Agent retained tensile strength	IS 16018:2012
16.		Dexterity	IS 16874:2018
17.		Adhesion test	IS 17153:2019, IS 5116 :2020
18.		Strength and rigidity	IS 17153:2019, IS 4246:2002 RA 2013
19.		Resistance to heating	IS 17153:2019, IS 5116 :2020
20.		Formation of soot	IS 17153:2019, IS 4246:2002 RA 2013
21.		Flash Back test	IS 17153:2019, IS 5116 :2020 IS 4246:2002 RA 2013
22.		Resistance to draught	IS 17153:2019, IS 5116 :2020 IS 4246:2002 RA 2013
23.		Pneumatic test of Shell	IS 10617:2018



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
1.	Baking ovens, Electric & steam irons, Electric call bells & buzzers, Electric coffee makers, Electric food mixers & juicers, Electric grills & roasters, Electric kettles & jugs, Electric stoves & hot plates, Electric toasters, Hair dryers, Refrigerators, food freezers & ice makers, Vacuum cleaners & suction appliances, Washing machines, water heater and others	Classification	IS 302-1:2024, IS 302-2-80 IS 302-2-9, IS 302-2-7 IS 302-2-6, IS 302-2-30 IS 302-2-23, IS 302-2-75 IS 302-2-3, IS 302-2-201 IS 302-2-15, IS 302-2-14 IS 302-2-35, IS 4250:2025
2.		Protection against access to live parts	IS 302-1:2024, IS 4250:2025
3.		Power input and current	IS 302-1:2024 IS 4250:2025
4.		Heating	IS 302-1:2024 IS 4250:2025
5.		Leakage current	IS 302-1:2024 IS 4250:2025
6.		Electric strength	IS 302-1:2024
7.		Transient overvoltage	IS 302-1:2024 IS 4250:2025
8.		Overload protection of transformers and associated circuits	IS 302-1:2024 IS 4250:2025



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
9.	Baking ovens, Electric & steam irons, Electric call bells & buzzers, Electric coffee makers, Electric food mixers & juicers, Electric grills & roasters, Electric kettles & jugs, Electric stoves & hot plates, Electric toasters, Hair dryers, Refrigerators, food freezers & ice makers, Vacuum cleaners & suction appliances, Washing machines, water heater and others	Construction	IS 302-1:2024 IS 4250:2025
10.		Cord flexing test	IS 302-1:2024
11.		Components	IS 302-1:2024 IS 4250:2025
12.		Supply connection and external flexible cords	IS 302-1:2024 IS 4250:2025
13.		ECR Test	IS 302-1:2024
14.		Comparative tracking index test	IS 2824: 2007
15.		Operational tests	IS 4250: 2025
16.		Endurance test Cord less kettle	IS 302-2-15: 2009
17.		Test for Harmonic Distortion	IS 374:2019, IS 14700 (Part 3/Sec 2)
18.		Endurance Test for fan	IS 374:2019, IS 3315:2024
19.		Measurement of Speed of the Fan	IS 374:2019
20.		Starting of the ceiling fan	IS 374:2019
21.		Air delivery test for air cooler	IS 3315:2024
22.		Cooling efficiency test for air cooler	IS 3315:2024
23.		Vibration test	IS 11951:2024, IS 9000 (Part 8)

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
24.	Household refrigerator appliances Part 2- Performance requirements, Drinking water cooler, Bottled water dispensers, Household refrigerator appliances Part 3- Energy consumption and volume, Household refrigerator appliances Part 1- characteristics & test methods	Cooling capacity test	IS 17550-2 :2021, IS 17550-2 :2024, IS 1475:2024, IS 17681:2022
25.		Freezing capacity test	IS 17550-2 :2021, IS 17550-2 :2024
26.		Water vapour condensation test	IS 17550-2 :2021,17550-2:2024
27.		Storage test	IS 17550-2 :2021, IS 17550-2 :2024
28.		Pull down test	IS 17550-2 :2021, IS 17550-2 :2024, IS 7872,1475:2024
29.		Automatic Ice making capacity test	IS 17550-2 :2021, IS 17550-2 :2024
30.		Wine storage test	IS 17550-2 :2021, IS 17550-2 :2024
31.		Temperature rise test	IS 17550-2 :2021, IS 17550-2 :2024, IS 7872
32.		Determination of Energy Consumption	IS 17550-3:2021, IS 7872,1475:2024, IS 17681:2022
33.		Sound pressure level	IS 7872, IS 17681:2022
34.		Max. operating condition test	1475:2024, IS 17681:2022
35.		Heating capacity	IS 17681:2022
36.		Freeze up test for water dispenser	IS 17681:2022
37.		Linear dimensions	IS 17550 Part-1:2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
38.	Household refrigerator appliances Part 2- Performance requirements, Drinking water cooler, Bottled water dispensers, Household refrigerator appliances Part 3- Energy consumption and volume, Household refrigerator appliances Part 1- characteristics & test methods	Marking (Rating information / Identification of frozen compartment/ Load limit lines)	IS 17550 Part-1:2021
39.		Test for absence of odour and Taste	IS 17550 Part-1:2021
40.		Thermal Insulation and Air Tightness	IS 17550 Part-1:2021
41.		Water vapour and condensation test	IS 17550 Part-2:2021
42.		Ice-making test	IS 17550 Part-1:2021
43.		Determination of volume	IS 17550 Part-3:2021
44.		Testing of the opening force of doors or lids	IS 17550 Part-1:2021



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
1.	Elastomeric, & Polymeric insulated Power Cables, LF Wires & Cables with PVC Insulation & Sheath, Paper/PVC/XLPE/EPR Power cables	Conductor resistance test	IS 10810 Part 5
2.		High voltage test	IS 10810 Part 45, IS 694, IS 17048, IS 17505, IS 9857, IS 7098 Part 1, IS 7098 Part 2, IS 1554-1
3.		Insulation resistance test	IS 10810 Part 43: 1984
4.		Resistivity test of armor wire and strips and conductance test of armor	IS 10810 Part 42: 1984
5.		Cold Impact test	IS 10810 Part 21: 1984
6.		Torsion tests	IS 10810 Part 38: 1984
7.		Wrapping test	IS 10810 Part 3: 1984
8.		Cold Bend test	IS 10810 Part 20: 1984
9.		Smoke density test	IS:10810 Part-63:1993
10.		Oxygen Index	IS:10810 Part-58: 1998
11.		Tensile strength & Elongation at break	IS:10810, Part-7: 1984



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wiring Accessories		
1.	Switches, electronic fan regulator, and box enclosure for household and similar electrical installation	Protection against access to live parts	IS 3854:2023 IS 11037 :2019 IS 14772: 2020
2.		Electrical Strength	IS 11037 :2019 IS 14772: 2020
3.		Insulation resistance test	IS 3854:2023, IS 11037:2019 IS 14772: 2020
4.		Endurance test for fan regulator	11037:2019
5.		Temperature rise test	IS 3854:2023 11037:2019
6.		Voltage drop test	IS 11037:2019
7.		Vibration test	IS 11037:2019
8.		Damage to conductor test	IS 3854:2023
9.		Making breaking test for switches	IS 3854:2023
10.		Normal operation test	IS 3854:2023
11.		ECR Test	IS 14772: 2020

