National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BUREAU OF INDIAN STANDARDS, BANGALORE BRANCH LABORATORY, PEENYA 1ST STAGE, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 29/05/2022 to 28/05/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	OPC	Loss on Ignition	IS 4032
2	CHEMICAL- BUILDING MATERIAL	OPC	Sulphuric Anhydride	IS 4032
3	CHEMICAL- BUILDING MATERIAL	PPC	Insoluble Residue	IS 4032
4	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits	Acid Insoluble Ash	IS 1011
5	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Biscuits	Moisture Content	IS 1011
6	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Skimmed/ Evaporated/ Dried Milk Powder	Moisture in Skimmed Milk Powder	IS 16072
7	CHEMICAL- FOOD & AGRICULTURAL PRODUCTS	Skimmed/ Evaporated/ Dried Milk Powder	Total Ash in Skimmed Milk Powder	IS 14433
8	CHEMICAL- WATER	Packaged Drinking Water	Alkalinity	IS 3025 (Part 23)
9	CHEMICAL- WATER	Packaged Drinking Water	Chloride	IS 3025 (Part 32)
10	CHEMICAL- WATER	Packaged Drinking Water	Odour	IS 3025 (Part 5)
11	CHEMICAL- WATER	Packaged Drinking Water	pH	IS 3025 (Part 11)
12	CHEMICAL- WATER	Packaged Drinking Water	Taste	IS 3025 (Part 8)
13	CHEMICAL- WATER	Packaged Drinking Water	TDS	IS 3025 (Part 17)
14	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Breaking Load of Individual Aluminium and Steel Wires	IS 398 (Part 2)
15	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Elongation Test on Steel Wire	IS 398 (Part 2)
16	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Freedom from Defects	IS 398 (Part 2)
17	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Galvanizing Test	IS 398 (Part 2)

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18	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Measurement of Diameter of Individual Aluminium Wires and Galvanized Steel Wires	IS 398 (Part 2)
19	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Measurement of Lay Ratio	IS 398 (Part 2)
20	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Resistance Test	IS 398 (Part 2)
21	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Torsion Test on Steel Wire	IS 398 (Part 2)
22	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Wrapping Test on Aluminium Wire	IS 398 (Part 2)
23	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Conductor, Galvanized Steel Reinforced	Wrapping Test on Steel Wire	IS 398 (Part 2)
24	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors	Breaking Load Test	IS 398 (Part 4)
25	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors	Elongation Test	IS 398 (Part 4)
26	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors	Freedom from Defects	IS 398 (Part 4)
27	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors	Measurement of Diameter of Aluminium Alloy Wire	IS 398 (Part 4)
28	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors	Measurement of Lay Ratio/ Direction of Lay	IS 398 (Part 4)
29	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors	Resistance Test	IS 398 (Part 4)
30	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Stranded Conductor	Breaking Load of Individual Aluminium Wire	IS 398 (Part 1)
31	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Stranded Conductor	Freedom from Defects	IS 398 (Part 1)

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32	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Stranded Conductor	Measurement of Diameter of Aluminium Wire	IS 398 (Part 1)
33	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Stranded Conductor	Measurement of Lay Ratio/ Direction of Lay	IS 398 (Part 1)
34	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Stranded Conductor	Resistance Test	IS 398 (Part 1)
35	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductor for Overhead Transmission Purposes - Aluminium Stranded Conductor	Wrapping Test of Aluminium Wire	IS 398 (Part 1)
36	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Bending Moment, Axial Pull and Mass	IS 16102 (Part 1)
37	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Cap Interchangeability	IS 16102 (Part 1)
38	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Cap Temperature Rise	IS 16102 (Part 1)
39	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Creepage Distances and Clearances	IS 16102 (Part 1)
40	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Electrical Strength after Humidity Treatment	IS 16102 (Part 1)
41	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Fault Conditions	IS 16102 (Part 1)
42	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Insulation Resistance after Humidity Treatment	IS 16102 (Part 1)
43	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Marking	IS 16102 (Part 1)
44	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Protection against Accidental Contact with Live Parts	IS 16102 (Part 1)
45	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Resistance to Flame and Ignition	IS 16102 (Part 1)

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46	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Resistance to Heat	IS 16102 (Part 1)
47	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self - Ballasted LED Lamps for General Lighting Services	Torsion Resistance of Unused Lamps	IS 16102 (Part 1)
48	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Air Pressure Test	IS 2347 (Clause 8.1)
49	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Bending Strength	IS 13395 (Clause 5.2)
50	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Bursting Pressure Test	IS 2347 (Clause 8.5)
51	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Capacity	IS 2347 (Clause 4)
52	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Construction Workmanship & Finish	IS 2347 (Clause 6 & 7)
53	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Fatigue Resistance	IS 13395 (Clause 5.5)
54	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Heat Resistance	IS 13395 (Clause 5.8)
55	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Operating Test for Pressure Regulating Device	IS 2347 (Clause 8.3)
56	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Proof Pressure Test	IS 2347 (Clause 8.2)
57	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Resistance to Burning	IS 13395 (Clause 5.10)
58	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Test for Induction Bottom	IS 2347 (Clause 8.9)
59	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Test for Removal of Lid under Pressure	IS 2347 (Clause 8.6)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
60	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Test for Safety Pressure Relief Device (Resettable Device)	IS 2347 (Clause 8.4)
61	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Test for Safety Pressure Relief Devices	IS 2347 (Clause 8.4)
62	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Thermal Insulation Test	IS 13395 (Clause 5.7)
63	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic Pressure Cooker	Torque Strength	IS 13395 (Clause 5.3)
64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Acceptance Test	IS 12786 (Clause 7.1.1)
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Dimension (Outside Diameter)	IS 12786 (Clause 5)
66	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Dimension (Thickness)	IS 12786 (Clause 5)
67	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Elongation at Break	IS 12786 (Clause 7.3)
68	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Quality Test	IS 12786 (Clause 7.1.2)
69	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Reversion Test	IS 12786 (Clause 7.2)
70	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Susceptibility to Environmental Stress Cracking	IS 12786 (Clause 7.4)
71	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Tensile Test	IS 12786 (Clause 7.3)
72	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pipes for Irrigation Laterals	Visual Appearance	IS 12786 (Clause 6)

NOTE- The Laboratory has demonstrated competence for the stated scope for WATER. This however does not fully cover the specification requirements of BIS for the Packaged Drinking Water as per IS 14543 and the Packaged Natural Mineral Water IS 13428.