National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : LPG EQUIPMENT RESEARCH CENTRE, DOORAVANI NAGAR, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 22/09/2021 to 21/09/2023 **Last Amended on** 22/10/2021

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- METALS & ALLOYS	Brass Samples for SC valves.	Copper	SOP- STMB01, Issue no-01, Issue date 28-02-2012
2	CHEMICAL- METALS & ALLOYS	Brass Samples for SC valves.	Iron	SOP- STMB01, Issue no-01, Issue date 28-02-2012
3	CHEMICAL- METALS & ALLOYS	Brass Samples for SC valves.	Lead	SOP- STMB01, Issue no-01, Issue date 28-02-2012
4	CHEMICAL- METALS & ALLOYS	Brass Samples for SC valves.	Manganese	SOP- STMB01, Issue no-01, Issue date 28-02-2012
5	CHEMICAL- METALS & ALLOYS	Brass Samples for SC valves.	Zinc	SOP- STMB01, Issue no-01, Issue date 28-02-2012
6	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Aluminium	ASTM E 415
7	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Carbon	ASTM E 415
8	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Manganese	ASTM E 415
9	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Nitrogen	ASTM E 415
10	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Phosphorus	ASTM E 415
11	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Silicon	ASTM E 415
12	CHEMICAL- METALS & ALLOYS	Carbon & Low alloy Steel	Sulphur	ASTM E 415
13	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Aluminium	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
14	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Cadmium	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
15	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Copper	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
16	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Iron	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
17	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Lead	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
18	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Magnesium	SOP- STMZ01, Issue no-01, Issue date 28-02-2012

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19	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Nickel	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
20	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Tin	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
21	CHEMICAL- METALS & ALLOYS	Zamac Alloy for Regulators	Zinc	SOP- STMZ01, Issue no-01, Issue date 28-02-2012
22	CHEMICAL- RUBBER & RUBBER PRODUCTS	Plastics - Nylon	Identification (By Infra-red Spectrometer)	ASTM E 1252
23	CHEMICAL- RUBBER & RUBBER PRODUCTS	Plastics-Polyacetal	Identification (By Infra-red Spectrometer)	ASTM E 1252
24	CHEMICAL- RUBBER & RUBBER PRODUCTS	Plastics-PVC	Identification (By Infra-red Spectrometer)	ASTM E 1252
25	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber	Resistance of Lining to N-Pentane (% Absorption)	IS 9573, Part-2
26	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber	Resistance of Lining to N-Pentane (% Extraction)	IS 9573 Part 2
27	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber	Resistance to Ozone	IS 9573, Part 2
28	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber - Nitrile	Identification (By Infra-red Spectrometer)	ISO 4650
29	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber -PVC + NBR	Identification (By Infra-red Spectrometer)	ISO 4650
30	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Combustion test (CO/CO2 ratio)	IS 4246
31	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Back temp	IS 4246
32	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - ceiling temp	IS 4246
33	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - floor temp	IS 4246
34	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Knob temp	IS 4246
35	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Side temp	IS 4246

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36	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Surface temp	IS 4246
37	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Flame Stability	IS 4246
38	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Flame Temperature	IS 4246
39	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Flash Back	IS 4246
40	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Formation of Soot	IS 4246
41	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Gas Consumption(Big Burner)	IS 4246
42	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Gas Consumption(Small burner)	IS 4246
43	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Gas Soundness	IS 4246
44	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Ignition and Flame Travel	IS 4246
45	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Noise Control	IS 4246
46	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Resistance to Draught	IS 4246
47	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Strength and Rigidity (Vertical Deflection)	IS 4246
48	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Strength and Rigidity(horizontal deflection)	IS 4246
49	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Thermal Efficiency for LPG Stove - Small burner	IS 4246

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50	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Thermal Efficiency for LPG Stoves - Big Burner	IS 4246
51	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	% Elongation	IS 1608, IS 3196, Part 3
52	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Burst Test	IS 3196, Part 3
53	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Foot Ring sheet Thickness	IS 3196, Part 1
54	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Ground Clearance	IS 3196, Part 1
55	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Hydrostatic Tests	IS 3196, Part 3
56	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Minimum Thickness	IS 3196, Part 3
57	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Paint Thickness(By Coating thickness gauge using FN Probe)	IS 3196, Part 1
58	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Pneumatic tests	IS 3196, Part 3
59	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Root & Face bend tests	IS 3196, Part 3
60	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Tensile strength	IS 1608, IS 3196, Part 3
61	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Verticality	IS 3196, Part 1
62	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Volumetric Expansion	IS 3196, Part 1
63	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Water Capacity	IS 3196, Part 1

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64	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Weld Tensile Strength	IS 1608, IS 3196, Part 3
65	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Yield stress	IS 1608, IS 3196 Part 3
66	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Ball Drop Test	SASO EN 16129
67	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Corrosion Resistance	EN ISO 9227
68	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Corrosion Resistance	IS: 9844
69	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Cycle Test	IS 9798
70	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Cycle test	SASO EN 16129
71	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	High Temperature test	IS 9798
72	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Hydrostatic Test	IS 9798
73	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Hydrostatic Test	SASO EN 16129
74	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Low Temperature Test	IS 9798
75	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Mechanical Strength of Connections	IS 9798
76	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Mechanical Strength of Connections	SASO EN 16129
77	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Paint Adhesion	IS 9798

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78	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure regulator	Performance test	SASO EN 16129
79	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Performance Tests	IS 9798
80	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Pin Travel	LERC/DPR/Pin Travel
81	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Soundness Test	SASO EN 16129
82	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Soundness Tests	IS 9798
83	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Pressure Regulator	Valve Pad Retention	SASO EN 16129
84	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	% Elongation Before and After Ageing	IS 3400, Part 1
85	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Adhesion	IS 3400, Part 24
86	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Bore Size Measurement	IS 9573, Part 2
87	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Burning Behaviour	IS 9573, Part 2
88	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Cover Thickness	IS 9573, Part 2
89	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Flexibility of Hose	IS 9573, Part 2
90	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Grip Strength	IS 9573, Part 2
91	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Hydraulic Test (Burst)	IS 443

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92	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Hydraulic Test (Proof)	IS 9573, Part 2
93	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Lining Thickness	IS 9573, Part 2
94	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Resistance to Low Temperature (-40 deg C)	IS 9573, Part 2
95	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Tensile Strength before and after Ageing	IS 3400, Part 1
96	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Pneumatic Test	IS 8737
97	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Dimension Acceptance Test	IS 8737
98	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Inlet Thread L1	IS 15984
99	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Inlet Thread L8	IS 15984
100	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Inlet Thread Truncation	IS 15984