



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

Certificate Number

TC-12401

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Validity

13/10/2023 to 12/10/2025

Last Amended on

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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
Permanent Facility				
1	CHEMICAL- PLASTIC & RESINS	Plastics - Nylon	Identification (By Infra-red Spectrometer)	ASTM E 1252
2	CHEMICAL- PLASTIC & RESINS	Plastics-Polyacetal	Identification (By Infra-red Spectrometer)	ASTM E 1252
3	CHEMICAL- PLASTIC & RESINS	Plastics-PVC	Identification (By Infra-red Spectrometer)	ASTM E 1252
4	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber	Resistance of Lining to N-Pentane (% Absorption)	IS 9573, Part-2
5	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber	Resistance of Lining to N-Pentane (% Extraction)	IS 9573 Part 2
6	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber	Resistance to Ozone	IS 9573, Part 2
7	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber - Nitrile	Identification (By Infra-red Spectrometer)	ISO 4650
8	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Synthetic rubber -PVC + NBR	Identification (By Infra-red Spectrometer)	ISO 4650
9	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Combustion test (CO/CO2 ratio)	IS 4246
10	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Back temp	IS 4246
11	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - ceiling temp	IS 4246
12	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - floor temp	IS 4246
13	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Knob temp	IS 4246
14	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Side temp	IS 4246
15	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Fire Hazard and limiting Temperature - Surface temp	IS 4246



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16	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Flame Stability	IS 4246
17	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Flame Temperature	IS 4246
18	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Flash Back	IS 4246
19	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Formation of Soot	IS 4246
20	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Gas Consumption(Big Burner)	IS 4246
21	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Gas Consumption(Small burner)	IS 4246
22	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Gas Soundness	IS 4246
23	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Ignition and Flame Travel	IS 4246
24	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Noise Control	IS 4246
25	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Resistance to Draught	IS 4246
26	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Strength and Rigidity (Vertical Deflection)	IS 4246
27	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Strength and Rigidity(horizontal deflection)	IS 4246
28	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Thermal Efficiency for LPG Stove - Small burner	IS 4246
29	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic LPG Stove	Thermal Efficiency for LPG Stoves - Big Burner	IS 4246



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30	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	% Elongation	IS 1608, IS 3196, Part 3
31	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Burst Test	IS 3196, Part 3
32	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Foot Ring sheet Thickness	IS 3196, Part 1
33	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Ground Clearance	IS 3196, Part 1
34	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Hydrostatic Tests	IS 3196, Part 3
35	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Minimum Thickness	IS 3196, Part 3
36	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Paint Thickness(By Coating thickness gauge using FN Probe)	IS 3196, Part 1
37	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Pneumatic tests	IS 3196, Part 3
38	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Root & Face bend tests	IS 3196, Part 3
39	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Tensile strength	IS 1608, IS 3196, Part 3
40	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Verticality	IS 3196, Part 1
41	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Volumetric Expansion	IS 3196, Part 1
42	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Water Capacity	IS 3196, Part 1
43	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	LPG Cylinder	Weld Tensile Strength	IS 1608, IS 3196, Part 3



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44	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	LPG Cylinder	Yield stress	IS 1608, IS 3196 Part 3
45	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Ball Drop Test	SASO EN 16129
46	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Cycle Test	IS 9798
47	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Cycle test	SASO EN 16129
48	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	High Temperature test	IS 9798
49	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Hydrostatic Test	IS 9798
50	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Hydrostatic Test	SASO EN 16129
51	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Low Temperature Test	IS 9798
52	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Mechanical Strength of Connections	IS 9798
53	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Mechanical Strength of Connections	SASO EN 16129
54	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Paint Adhesion	IS 9798
55	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure regulator	Performance test	SASO EN 16129
56	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Performance Tests	IS 9798
57	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Pin Travel	LERC/DPR/Pin Travel



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58	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Soundness Test	SASO EN 16129
59	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Soundness Tests	IS 9798
60	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Pressure Regulator	Valve Pad Retention	SASO EN 16129
61	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	% Elongation Before and After Ageing	IS 3400, Part 1
62	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Adhesion	IS 3400, Part 24
63	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Bore Size Measurement	IS 9573, Part 2
64	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Burning Behaviour	IS 9573, Part 2
65	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Cover Thickness	IS 9573, Part 2
66	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Flexibility of Hose	IS 9573, Part 2
67	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Grip Strength	IS 9573, Part 2
68	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Hydraulic Test (Burst)	IS 443
69	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Hydraulic Test (Proof)	IS 9573, Part 2
70	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Lining Thickness	IS 9573, Part 2
71	MECHANICAL-PERFORMANCE/DURABILITY / SAFETY TEST	Rubber Hose for LPG	Resistance to Low Temperature (-40 deg C)	IS 9573, Part 2



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72	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Rubber Hose for LPG	Tensile Strength before and after Ageing	IS 3400, Part 1
73	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Pneumatic Test	IS 8737
74	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Dimension Acceptance Test	IS 8737
75	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Inlet Thread L1	IS 15984
76	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Inlet Thread L8	IS 15984
77	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Valve	Valve Inlet Thread Truncation	IS 15984