

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Samtek Testing Laboratory LLP

1-Himalaya Marg, Gyan Mandir, Kanya Inter College, D Block, Indira Nagar,
Lucknow-226016, 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/2025/0140

Valid from: 30 Sep 2025

Valid until: 29 Sep 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 & Alloys		
1.	Stainless Steel	Nickel	IS 228 (Part-5): 1987
2.		Copper	IS 228 (Part-15): 1992
3.		Carbon	IS 228 (Part-1): 2025
4.		Chromium	IS 228 (Part-6): 2024
5.		Manganese	IS 228 (Part-2): 2024
6.		Molybdenum	IS 228 (Part-7): 2025
7.		Phosphorus	IS 228 (Part-3): 2024
8.		Silicon	IS 228 (Part-8): 1989
9.		Nitrogen	IS 228 (Part-19): 1998
10.		Sulphur	IS 228 (Part-9): 1989
11.	Aluminium & aluminium alloy	Aluminum	IS 504: 1963
12.		Chromium	IS 504 (Part-8): 2002
13.		Copper	IS 504 (Part-3): 2002
14.		Iron	IS 504 (Part-2): 2002
15.		Magnesium	IS 504 (Part-6): 2002
16.		Manganese	IS 504 (Part-5): 2002
17.		Nickel	IS 504 (Part-7): 2002
18.		Lead	IS 504 (Part-1): 2002
19.		Silicon	IS 504 (Part-1): 2002
20.		Tin	IS 504 (Part-9): 2002
21.		Vanadium	IS 504 (Part-12): 2002
22.		Zirconium	IS 504 (Part-15): 2002
23.		Zinc	IS 504 (Part-4): 2002
24.		Titanium	IS 504 (Part-11): 2002

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & alloys		
1.	Domestic Pressure Cooker	Pressure Regulating Device	IS 2347: 2023 Cl. 6.1
2.		Safety Relief Device	IS 2347: 2023 Cl. 6.2
3.		Temperature Responsive Safety Relief Device	IS 2347: 2023 Annex. C
4.		Workmanship And Finish	IS 2347: 2023 Cl.7
5.		Air Pressure Test	IS 2347: 2023 Cl. 8.1
6.		Proof Pressure Test	IS 2347: 2023 Cl. 8.2
7.		Operating Test for Pressure Regulating Device	IS 2347: 2023 Annex. G
8.		Capacity	IS 2347: 2023 Cl. 4
9.		Test for Safety Relief Device	IS 2347: 2023 Annex. H
10.		Bursting Pressure Test	IS 2347: 2023 Annex. J
11.		Tests for Removal of Lid Under Pressure (For Outer Lid Cooker)	IS 2347: 2023 Annex. K
12.		Tests for Removal of Lid Under Pressure (For Inner Lid Cooker)	IS 2347: 2023 Annex. L
13.		Test for Spring Loaded Mechanism	IS 2347: 2023 Annex. M
14.		External Coating	IS 9730: 2008

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & alloys		
15.	Domestic Pressure Cooker	Internal Coating	IS 9730: 2008
16.		Fragmentation Test	IS 2347: 2023 Cl. 8.15.1
17.		Ball Drop Test	IS 2347: 2023 Cl. 8.15.2
18.		Thermal Shock Test	IS 2347: 2023 Cl. 8.15.3
19.		Free Fall Test (Glass lid with rim)	IS 2347: 2023 Cl. 8.15.4
20.		Free Fall Test (Glass lid without rim)	IS 2347: 2023 Cl. 8.15.4
21.		Test for Effectiveness for Induction Bottom	IS 2347: 2023 Annex. S
22.		General	IS 13395:2021
23.		Bending Strength of Handles and Knobs	IS 13395:2021 Annex. A
24.		Torque Strength of Handles and Knobs	IS 13395:2021 Annex. B
25.		Impact Strength of Handles and Knobs	IS 13395:2021 Annex. C
26.		Fatigue Resistance of Handles and Knobs	IS 13395:2021 Annex. D
27.		Leakage of Handles and Knobs	IS 13395:2021 Annex. E
28.		Thermal Insulation of Handles and Knobs	IS 13395:2021 Annex. E

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & alloys		
29.	Domestic Pressure Cooker	Heat Resistance of Handles and Knobs	IS 13395:2021 Cl. 5.8
30.		Washing Resistance of Handles and Knobs	IS 13395:2021 Cl. 5.8
31.		Burning Resistance of Handles and Knobs	IS 13395:2021 Annex. G
32.	Domestic gas stove and built in hob for use with LPG	Materials	IS 4246: 2025 Cl.5
33.		Burner Pan Supports	IS 4246: 2025 Cl.12
34.		Surface of Glass or Glass Ceramic (a). General Verification of the Strength of the Gas Stove Surface of Toughened Glass Top Against Thermal Stress	IS 4246: 2025 Annex. C
35.		Surface of Glass or Glass Ceramic (b). Fragmentation Test of the Toughened Glass Stove Top	IS 4246: 2025 Annex. C
36.		Burners	IS 5116:2020
37.		Combustion (Ratio of CO/CO ₂)	IS 4246: 2025 Annex. E
38.		Design For Maintenance	IS 4246: 2025 Cl.6
39.		Fire Hazard & Limiting Temp.	IS 4246: 2025 Cl.25.3
40.		Fire Hazard & Limiting Temp.	IS 5116: 2020 Cl. 23



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & alloys		
41.	Domestic gas stove and built in hob for use with LPG	Flame stability	IS 4246: 2025 Cl. 19
42.		Flash Back	IS 4246: 2025 Cl.21
43.		Formation of Soot	IS 4246: 2025 Cl.22
44.		Gas Consumption	IS 4246: 2025 Annex. D
45.		Gas Consumption (Built in Hobs)	IS 4246: 2025 Annex. D
46.		Ignition and Flame Travel	IS 5116: 2020 Cl.14
47.		Gas Inlet Connection (Pipe)	IS 5116: 2020 Cl.18
48.		Gas Inlet Connection (Nozzle)	IS 5116: 2020 Cl.18
49.		Gas Tap	IS 5116: 2020 Cl.8
50.		General	IS 4246: 2025 Cl.4
51.		Injector Jets (Across Flats and Projection from the face mounting)	IS 4246: 2025 Cl.10
52.		Gas Soundness	IS 5116: 2020 Cl.16
53.		Gas Leak Detector	IS 4246: 2025 Cl.13.2
54.		Noise Control	IS 4246: 2025 Cl. 20

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & alloys		
55.	Domestic gas stove and built in hob for use with LPG	Resistance to Draught	IS 4246: 2025 Cl. 23
56.		Rigidity and Stability	IS 4246: 2025 Cl.7
57.		Strength and Rigidity	IS 4246: 2025 Annex. B
58.		Thermal Efficiency	IS 4246: 2025 Annex. F
59.		Thermal Efficiency (Built in Hobs)	IS 4246: 2025 Annex. F
60.		Workmanship and Finish	IS 5116: 2020 Cl.7

