

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

**Accurate Test Solutions LLP**

(Name change from Accurate Test Solutions w.e.f. 23 August 2024)

F-21, Sector-11

Noida-201301, 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/2024/0070**

Valid from: 06 August 2024

Valid until: 05 August 2026

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)



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**Scope of Accreditation**  
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Valid from: 06 August 2024  
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\*Scope Amended (w.e.f.): 04 Nov 2025  
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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
1.	Safety of household and similar electrical appliances Part 2 Particular requirements Part 7 Domestic electric clothes washing machine (Second Revision)	Classification	Cl.No.6 IS 302 (Part 2/Sec 7): 2024
		Marking and instructions	Cl.No.7 IS 302 (Part 2/Sec 7): 2024
		Protection against access to live parts	Cl.8 IS 302 (Part 2/Sec 7) :2024
		Power input and current	Cl.No.10 IS 302 (Part 2/Sec 7): 2024
		Heating	Cl.No.11 IS 302 (Part 2/Sec 7): 2024
		Leakage current and electric strength at operating Temperature	Cl.No.13 IS 302 (Part 2/Sec 7): 2024
		Transient overvoltage	Cl.No.14 IS 302 (Part 2/Sec 7): 2024
		Moisture resistance	Cl.No.15 IS 302 (Part 2/Sec 7): 2024
		Leakage current and electric Strength	Cl.No.16 IS 302 (Part 2/Sec 7): 2024
		Overload protection of transformers and associated circuits	Cl.No.17 IS 302 (Part 2/Sec 7): 2024
		Endurance	Cl.No.18 IS 302 (Part 2/Sec 7): 2024
		Abnormal operation	Cl.No.19 IS 302 (Part 2/Sec 7): 2024
		Stability and mechanical Hazards	Cl.No.20 IS 302 (Part 2/Sec 7): 2024
Mechanical strength	Cl.No.21 IS 302 (Part 2/Sec 7): 2024		

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
		Construction	Cl. No.22 IS 302 (Part 2/Sec 7): 2024
		Internal wiring	Cl. No.23 IS 302 (Part 2/Sec 7): 2024
		Components	Cl. No. 24 IS 302 (Part 2/Sec 7): 2024
		Supply connection and External flexible cords	Cl.No.25 IS 302 (Part 2/Sec 7): 2024
		Terminals for external Conductors	Cl.No.26 IS 302 (Part 2/Sec 7): 2024
		Provision for earthing	Cl.No.27 IS 302 (Part 2/Sec 7): 2024
		Screws and connections	Cl. No.28 IS 302 (Part 2/Sec 7): 2024
		Clearances, creepage distances and solid insulation	Cl. No.29 IS 302 (Part 2/Sec 7): 2024
		Resistance to heat and fire	Cl. No.30 IS 302 (Part 2/Sec 7): 2024
		Resistance to rusting	Cl. No.31 IS 302 (Part 2/Sec 7): 2024
		Ageing test for elastomeric parts	Annex BB IS 302 (Part 2/Sec 7): 2024
		Washing machine incorporated a power-driven wringer	Annex DD IS 302 (Part 2/Sec 7): 2024
2.	Washing machines for household use-methods for measuring the performance (for cotton loads only)	Measurements to determine washing performance	Cl. No. 8.3 & Cl. No. 9.2 of IEC 60456: 2010
		Measurements to determine water extraction performance	Cl. No. 8.4 & Cl. No. 9.3 of IEC 60456: 2010
		Measurements to determine rising performance	Cl. No. 8.5 & Cl. No. 9.4 of IEC 60456: 2010

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
		Measurements to determine water and energy consumption and programmer time	Cl. No. 8.6 & Cl. No. 9.5 of IEC 60456: 2010
3.	Toaster, Grills, Roaster	Classification	Cl.No.6 IS 302 (PART 2/SEC 9) :2009
4.		Marking and Instructions	Cl.No.7 IS 302 (PART 2/SEC 9) :2009
5.		Protection against access to live parts	Cl.8 IS 302 (PART 2/SEC 9) :2009
6.		Power Input and Current	Cl.No.10 IS 302 (PART 2/SEC 9) :2009
7.		Heating	Cl.No.11 IS 302 (PART 2/SEC 9) :2009
8.		Leakage Current and electric strength at operating temperature	Cl.No.13IS 302 (PART 2/SEC 9) :2009
9.		Transient Overvoltage	Cl.No.14IS 302 (PART 2/SEC 9) :2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
10.	Toaster, Grills, Roaster	Moisture resistance	Cl.No.15 IS 302 (PART 2/SEC 9) :2009
11.		Leakage current and Electric strength	Cl.No.16 IS 302 (PART 2/SEC 9) :2009
12.		Overload Protection of Transformers and Associated Circuits	Cl.No.17 IS 302 (PART 2/SEC 9) :2009
13.		Abnormal Operation	Cl.No.19 IS 302 (PART 2/SEC 9) :2009
14.		Stability and Mechanical Hazards	Cl.No.20 IS 302 (PART 2/SEC 9) :2009
15.		Mechanical Strength	Cl.No.21 IS 302 (PART 2/SEC 9) :2009
16.		Construction	Cl. No.22 IS 302 (PART 2/SEC 9) :2009
17.		Internal Wiring	Cl. No.23 IS 302 (PART 2/SEC 9) :2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
18.	Toaster, Grills, Roaster	Components	Cl. No. 24 IS 302 (PART 2/SEC 9) :2009
19.		Supply Connection and External Flexible Cords	Cl.No.25 IS 302 (PART 2/SEC 9) :2009
20.		Terminals for external conductors	Cl.No.26 IS 302 (PART 2/SEC 9) :2009
21.		Provision For Earthing	Cl.No.27 IS 302 (PART 2/SEC 9) :2009
22.		Screws and Connections	Cl. No.28 IS 302 (PART 2/SEC 9) :2009
23.		Clearances, Creepage Distances and Solid Insulation	Cl. No.29 IS 302 (PART 2/SEC 9) :2009
24.		Resistance To Heat and Fire	Cl.No.30 IS 302 (PART 2/SEC 9) :2009
25.		Resistance To Rusting	Cl.No.31 IS 302 (PART 2/SEC 9) :2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
26.	Appliances for skin or hair care	Classification	Cl.No.6 IS 302 (PART 2/SEC 23) :2009
27.		Marking and Instructions	Cl.No.7 IS 302 (PART 2/SEC 23) :2009
28.		Protection against access to live parts	Cl.8 IS 302 (PART 2/SEC 23) :2009
29.		Power Input and Current	Cl.No.10 IS 302 (PART 2/SEC 23) :2009
30.		Heating	Cl.No.11 IS 302 (PART 2/SEC 23) :2009
31.		Leakage Current and electric strength at operating temperature	Cl.No.13 IS 302 (PART 2/SEC 23) :2009
32.		Transient Overvoltage	Cl.No.14 IS 302 (PART 2/SEC 23) :2009
33.		Moisture resistance	Cl.No.15 IS 302 (PART 2/SEC 23) :2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
34.	Appliances for skin or hair care	Leakage current and Electric strength	Cl.No.16 IS 302 (PART 2/SEC 23) :2009
35.		Overload Protection of Transformers and Associated Circuits	Cl.No.17 IS 302 (PART 2/SEC 23) :2009
36.		Abnormal Operation	Cl.No.19 IS 302 (PART 2/SEC 23) :2009
37.		Stability and Mechanical Hazards	Cl.No.20 IS 302 (PART 2/SEC 23) :2009
38.		Mechanical Strength	Cl.No.21 IS 302 (PART 2/SEC 23) :2009
39.		Construction	Cl. No.22 IS 302 (PART 2/SEC 23) :2009
40.		Internal Wiring	Cl. No.23 IS 302 (PART 2/SEC 23) :2009
41.		Components	Cl. No. 24 IS 302 (PART 2/SEC 23) :2009

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
42.	Appliances for skin or hair care	Supply Connection and External Flexible Cords	Cl.No.25 IS 302 (PART 2/SEC 23) :2009
43.		Terminals for external conductors	Cl.No.26 IS 302 (PART 2/SEC 23) :2009
44.		Provision For Earthing	Cl.No.27 IS 302 (PART 2/SEC 23) :2009
45.		Screws and Connections	Cl. No.28 IS 302 (PART 2/SEC 23) :2009
46.		Clearances, Creepage Distances and Solid Insulation	Cl. No.29 IS 302 (PART 2/SEC 23) :2009
47.		Resistance To Heat and Fire	Cl.No.30 IS 302 (PART 2/SEC 23) :2009
48.		Resistance To Rusting	Cl.No.31 IS 302 (PART 2/SEC 23) :2009
49.	Portable Immersion Heaters	Classification	Cl.No.6 IS 302 (PART 2/SEC 74) :2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
50.	Portable Immersion Heaters	Marking and Instructions	Cl.No.7 IS 302 (PART 2/SEC 74) : 2024
51.		Protection against access to live parts	Cl.8 IS 302 (PART 2/SEC 74) : 2024
52.		Power Input and Current	Cl.No.10 IS 302 (PART 2/SEC 74) : 2024
53.		Heating	Cl.No.11 IS 302 (PART 2/SEC 74) : 2024
54.		Leakage Current and electric strength at operating temperature	Cl.No.13 IS 302 (PART 2/SEC 74) : 2024
55.		Transient Overvoltage	Cl.No.14 IS 302 (PART 2/SEC 74) : 2024
56.		Moisture resistance	Cl.No.15 IS 302 (PART 2/SEC 74) : 2024
57.		Leakage current and Electric strength	Cl.No.16 IS 302 (PART 2/SEC 74) : 2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
58.	Portable Immersion Heaters	Overload Protection of Transformers and Associated Circuits	Cl.No.17 IS 302 (PART 2/SEC 74) : 2024
59.		Abnormal Operation	Cl.No.19 IS 302 (PART 2/SEC 74) : 2024
60.		Stability and Mechanical Hazards	Cl.No.20 IS 302 (PART 2/SEC 74) : 2024
61.		Mechanical Strength	Cl.No.21 IS 302 (PART 2/SEC 74) : 2024
62.		Construction	Cl. No.22 IS 302 (PART 2/SEC 74) : 2024
63.		Internal Wiring	Cl. No.23 IS 302 (PART 2/SEC 74) : 2024
64.		Components	Cl. No. 24 IS 302 (PART 2/SEC 74) : 2024
65.		Supply Connection and External Flexible Cords	Cl.No.25 IS 302 (PART 2/SEC 74) :2024

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
66.	Portable Immersion Heaters	Terminals for external conductors	Cl.No.26 IS 302 (PART 2/SEC 74) : 2024
67.		Provision For Earthing	Cl.No.27 IS 302 (PART 2/SEC 74) : 2024
68.		Screws and Connections	Cl. No.28 IS 302 (PART 2/SEC 74) : 2024
69.		Clearances, Creepage Distances and Solid Insulation	Cl. No.29 IS 302 (PART 2/SEC 74) : 2024
70.		Resistance To Heat and Fire	Cl.No.30 IS 302 (PART 2/SEC 74) : 2024
71.		Resistance To Rusting	Cl.No.31 IS 302 (PART 2/SEC 74) : 2024
72.	Electric Immersion water Heater	Classification	Cl.No.6 IS 302 (PART 2/SEC 201) :2008
73.		Marking and Instructions	Cl.No.7 IS 302 (PART 2/SEC 201) :2008

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
74.	Electric Immersion water Heater	Protection against access to live parts	Cl.8 IS 302 (PART 2/SEC 201) :2008
75.		Power Input and Current	Cl.No.10 IS 302 (PART 2/SEC 201) :2008
76.		Heating	Cl.No.11 IS 302 (PART 2/SEC 201) :2008
77.		Leakage Current and electric strength at operating temperature	Cl.No.13 IS 302 (PART 2/SEC 201) :2008
78.		Transient Overvoltage	Cl.No.14 IS 302 (PART 2/SEC 201) :2008
79.		Moisture resistance	Cl.No.15 IS 302 (PART 2/SEC 201) :2008
80.		Leakage current and Electric strength	Cl.No.16 IS 302 (PART 2/SEC 201) :2008
81.		Overload Protection of Transformers and Associated Circuits	Cl.No.17 IS 302 (PART 2/SEC 201) :2008

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
82.	Electric Immersion water Heater	Abnormal Operation	Cl.No.19 IS 302 (PART 2/SEC 201) :2008
83.		Stability and Mechanical Hazards	Cl.No.20 IS 302 (PART 2/SEC 201) :2008
84.		Mechanical Strength	Cl.No.21 IS 302 (PART 2/SEC 201) :2008
85.		Construction	Cl. No.22 IS 302 (PART 2/SEC 201) :2008
86.		Internal Wiring	Cl. No.23 IS 302 (PART 2/SEC 201) :2008
87.		Components	Cl. No. 24 IS 302 (PART 2/SEC 201) :2008
88.		Supply Connection and External Flexible Cords	Cl.No.25 IS 302 (PART 2/SEC 201) :2008
89.		Terminals for external conductors	Cl.No.26 IS 302 (PART 2/SEC 201) :2008

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	<b>Domestic Electrical Appliances</b>		
90.	Electric Immersion Water Heaters	Provision For Earthing	Cl.No.27 IS 302 (PART 2/SEC 201) :2008
91.		Screws and Connections	Cl. No.28 IS 302 (PART 2/SEC 201) :2008
92.		Clearances, Creepage Distances and Solid Insulation	Cl. No.29 IS 302 (PART 2/SEC 201) :2008
93.		Resistance To Heat and Fire	Cl.No.30 IS 302 (PART 2/SEC 201) :2008
94.		Resistance To Rusting	Cl.No.31 IS 302 (PART 2/SEC 201) :2008
95.		Classification	Cl.No.6 IS 368: 2014
96.		Marking and Instructions	Cl.No.7 IS 368: 2014
97.		Protection against access to live parts	Cl.8 IS 368: 2014

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
98.	Electric Immersion Water Heaters	Power Input and Current	Cl.No.10 IS 368: 2014
99.		Heating	Cl.No.11 IS 368: 2014
100.		Operation under overload Conditions of appliances with Heating elements	Cl.No.12 IS 368: 2014
101.		Transient Overvoltage	Cl.No.14 IS 368: 2014
102.		Moisture resistance	Cl.No.15 IS 368: 2014
103.		Leakage current and Electric strength	Cl.No.16 IS 368: 2014
104.		Overload Protection of Transformers and Associated Circuits	Cl.No.17 IS 368: 2014
105.		Endurance	Cl.No.18 IS 368: 2014

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	<b>Domestic Electrical Appliances</b>		
106.	Electric Immersion Water Heaters	Abnormal Operation	Cl.No.19 IS 368: 2014
107.		Stability and Mechanical Hazards	Cl.No.20 IS 368: 2014
108.		Mechanical Strength	Cl.No.21 IS 368: 2014
109.		Construction	Cl. No.22 IS 368: 2014
110.		Internal Wiring	Cl. No.23 IS 368: 2014
111.		Components	Cl. No. 24 IS 368: 2014
112.		Supply Connection and External Flexible Cords	Cl.No.25 IS 368: 2014
113.		Terminals for external conductors	Cl.No.26 IS 368: 2014

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# Quality And Accreditation Institute

## Centre for International Accreditation

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**Scope of Accreditation**

**Accurate Test Solutions LLP**

(formerly Accurate Test Solutions)

F-21, Sector-11

Noida-201301, Uttar Pradesh, India

QAI/CIA/TL/2024/0070

Valid from: 06 August 2024

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
114.	Electric Immersion Water Heaters	Provision For Earthing	Cl.No.27 IS 368: 2014
115.		Screws and Connections	Cl. No.28 IS 368: 2014
116.		Clearances, Creepage Distances and Solid Insulation	Cl. No.29 IS 368: 2014
117.		Resistance To Heat and Fire	Cl.No.30 IS 368: 2014
118.		Resistance To Rusting	Cl.No.31 IS 368: 2014
119.	Electric Fans	Classification	Cl.6 IS 302 (Part 2/Sec 80:2017)
120.		Marking and Instructions	Cl.7 IS 302 (Part 2/Sec 80:2017)
121.		Protection against access to live parts	Cl.8 IS 302 (Part 2/Sec 80:2017)

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
122.	Electric Fans	Power Input and Current	Cl.10 IS 302 (Part 2/Sec 80:2017)
123.		Heating	Cl.11 IS 302 (Part 2/Sec 80:2017)
124.		Leakage Current and electric strength at operating temperature	Cl.13 IS 302 (Part 2/Sec 80:2017)
125.		Transient overvoltage	Cl.14 IS 302 (Part 2/Sec 80:2017)
126.		Moisture resistance	Cl.15 IS 302 (Part 2/Sec 80:2017)
127.		Leakage current and electric strength	Cl.16 IS 302 (Part 2/Sec 80:2017)
128.		Overload protection of transformers and associated circuits	Cl.17 IS 302 (Part 2/Sec 80:2017)
129.		Abnormal Operation	Cl.19 IS 302 (Part 2/Sec 80:2017)

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Domestic Electrical Appliances</b>		
130.	Electric Fans	Stability and Mechanical Hazards	Cl.20 IS 302 (Part 2/Sec 80:2017)
131.		Mechanical Strength	Cl.21 IS 302 (Part 2/Sec 80:2017)
132.		Construction	Cl.22 IS 302 (Part 2/Sec 80:2017)
133.		Internal wiring	Cl.23 IS 302 (Part 2/Sec 80:2017)
134.		Components	Cl.24 IS 302 (Part 2/Sec 80:2017)
135.		Supply connection and external flexible cords	Cl.25 IS 302 (Part 2/Sec 80:2017)
136.		Terminals for external conductors	Cl.26 IS 302 (Part 2/Sec 80:2017)
137.		Provision for earthing	Cl.27 IS 302 (Part 2/Sec 80:2017)

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# Quality And Accreditation Institute

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Domestic Electrical Appliances		
138.	Electric Fans	Screws and connections	Cl.28 IS 302 (part 2/sec 80:2017)
139.		Clearances, creepage distances and solid insulation	Cl.29 IS 302 (part 2/sec 80:2017)
140.		Resistance to heat and fire	Cl.30 IS 302 (part 2/sec 80:2017)
141.		Resistance to rusting	Cl.31 IS 302 (part 2/sec 80:2017)

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Capacitors</b>		
1.	AC Motor Run Capacitor	Routine tests	Cl. 5.4.1 a) Sealing test, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
2.			Cl. 5.4.1 b) Voltage test between terminals, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
3.			Cl. 5.4.1 c) Voltage test between terminals and case, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+ AMD 1: 2013
4.			Cl. 5.4.1 d) Visual examination, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
5.			Cl. 5.4.1 e) Capacitance measurement, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
6.	AC Motor Run Capacitor	Routine tests	Cl. 5.4.1 f) Tangent of loss angle, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+ AMD 1: 2013
7.		Tangent of loss angle	Cl. 5.5 Tangent of loss angle, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
8.		Visual examination	Cl. 5.6 Visual examination, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
9.		Voltage test between terminals	Cl. 5.7 Voltage test between terminals, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
10.		Voltage test between terminals and case	Cl. 5.8 Voltage test between terminals and case, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
11.	AC Motor Run Capacitor	Capacitance measurement	Cl. 5.9 Capacitance measurement, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
12.		Check of dimensions	Cl. 5.10 Check of dimensions, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
13.		Mechanical tests	Cl. 5.11 Mechanical tests, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
14.		Sealing test	Cl. 5.12 Sealing test, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
15.		Endurance test	Cl. 5.13 Endurance test, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
16.		Damp heat test	Cl. 5.14 Damp heat test IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
17.	AC Motor Run Capacitor	Self-healing test	Cl. 5.15 Self-healing test ,IS 2993 (Part 1): 2024+AMD 1:2024,IEC 60252-1:2010+ AMD 1: 2013
18.		Destruction test	Cl. 5.16 Destruction test IS 2993 (Part 1): 2024+AMD 1:2024 IEC 60252-1:2010+AMD 1: 2013
19.		Resistance to heat, fire and tracking	Cl. 5.17 Resistance to heat,fire and tracking, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
20.		Permissible overloads	Cl. 6 Permissible overloads, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
21.		Safety requirements	Cl. 7 Safety requirements, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
22.		Marking	Cl. 8 Marking, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
23.	AC Motor Start Capacitors	Guidance for installation and operation	Cl. 9 Guidance for installation and operation, IS 2993 (Part 1): 2024+AMD 1:2024, IEC 60252-1:2010+AMD 1: 2013
24.		Routine tests	Cl. 5.1.4.1 a) Sealing test, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
25.			Cl. 5.1.4.1 b) Voltage test between terminals, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
26.			Cl. 5.1.4.1 c) Voltage test between terminals and case, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
27.			Cl. 5.1.4.1 d) Visual examination, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013

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# Quality And Accreditation Institute

## Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
28.	AC Motor Start Capacitors	Routine tests	Cl. 5.1.4.1 e) Capacitance measurement, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
29.			Cl. 5.1.4.1 f) Tangent of loss angle, IS 2993 (Part 2): 2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
30.		Tangent of loss angle	Cl. 5.1.5 Tangent of loss angle IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
31.		Visual examination	Cl. 5.1.6 Visual examination IS 2993 (Part 2): 2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
32.		Voltage test between terminals	Cl. 5.1.7 Voltage test between terminals, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013

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# Quality And Accreditation Institute

## Centre for International Accreditation

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Scope of Accreditation

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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
33.	AC Motor Start Capacitors	Voltage test between terminals and case	Cl. 5.1.8 Voltage test between terminals and case, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
34.		Capacitance measurement	Cl. 5.1.9 Capacitance measurement IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
35.		Check of dimensions	Cl. 5.1.10 Check of dimensions, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
36.		Mechanical tests	Cl. 5.1.11 Mechanical tests, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
37.		Sealing test	Cl. 5.1.12 Sealing test, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013

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# Quality And Accreditation Institute Centre for International Accreditation

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
38.	AC Motor Start Capacitors	Endurance test	Cl. 5.1.13 Endurance test, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
39.		Damp heat test	Cl. 5.1.14 Damp heat test, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
40.		Self-healing test	Cl. 5.1.15 Self-healing test, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
41.		Destruction test	Cl. 5.1.16 Destruction test, IS 2993 (Part 2): 2024+AMD1:2024, IEC 60252-2:2010+AMD 1: 2013
42.		Resistance to heat, fire and tracking	Cl. 5.1.17, Resistance to heat, fire and tracking, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+ AMD 1: 2013
43.		Overloads	Cl. 5.2 Overloads IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
44.	AC Motor Start Capacitors	Safety requirements	Cl. 5.3 Safety requirements, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
45.		Marking	Cl. 5.4 Marking, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
46.		Resistance to heat, fire and tracking	Cl. 5.1.17 Resistance to heat, fire and tracking, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
47.		Overloads	Cl. 5.2 Overloads, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
48.		Safety requirements	Cl. 5.3 Safety requirements, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
49.		Routine tests	Cl. 6.1.4.1 a) Sealing test IS 2993 (Part 2):2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013

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# Quality And Accreditation Institute

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Electrical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Capacitors			
50.	AC Motor Start Capacitors	Routine tests	Cl. 6.1.4.1 b) Voltage test between terminals IS 2993 (Part 2):2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013	
51.			Cl. 6.1.4.1 c) Voltage test between terminals and case, IS 2993 (Part 2):2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013	
52.			Cl. 6.1.4.1 d) Visual examination IS 2993 (Part 2): 2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013	
53.			Cl. 6.1.4.1 e) Capacitance and power factor measurement IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013	
54.			Visual examination	Cl. 6.1.5 Visual examination IS 2993 (Part 2):2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
55.			Voltage test between the terminals	Cl. 6.1.6 Voltage test between the terminals, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		
56.	AC Motor Start Capacitors	Voltage test between terminals and case	Cl. 6.1.7 Voltage test between terminals and case IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
57.		Capacitance and power factor measurement	Cl. 6.1.8 Capacitance and power factor measurement IS 2993 (Part 2): 2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
58.		Check of dimensions	Cl. 6.1.9 Check of dimensions IS 2993 (Part 2):2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
59.		Mechanical tests	Cl. 6.1.10 Mechanical tests IS 2993 (Part 2):2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
60.		Sealing test	Cl. 6.1.11 Sealing test IS 2993 (Part 2):2024+AMD 1:2024 , IEC 60252-2:2010+AMD 1: 2013
61.		Endurance test	Cl. 6.1.12 Endurance test IS 2993 (Part 2):2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
62.		Damp heat test	Cl. 6.1.13 Damp heat test IS 2993

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Capacitors		(Part 2):2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
63.	AC Motor Start Capacitors	Pressure relief test	Cl. 6.1.14 Pressure relief test IS 2993 (Part 2):2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
64.		Resistance to heat, fire and tracking	Cl. 6.1.15 Resistance to heat, fire and tracking IS 2993 (Part 2):2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
65.		Overloads	Cl. 6.2 Overloads, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
66.		Safety requirements	Cl. 6.3 Safety requirements IS 2993 (Part 2):2024+AMD 1:2024 IEC 60252-2:2010+AMD 1: 2013
67.		Marking	Cl. 6.4 Marking, IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013
68.		Guidance for installation and operation	Cl. 7 Guidance for installation and operation IS 2993 (Part 2): 2024+AMD 1:2024, IEC 60252-2:2010+AMD 1: 2013



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Accreditation Standard: ISO/IEC 17025:2017

Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Rotating Electrical Machines</b>		
1.	Single-phase A.C. Industrial Motors	Rated Conditions of Voltage, Frequency, Output and Speed of Motor	Cl.No.4 IS 996: 2009
2.		Site Conditions	Cl.No.5 IS 996: 2009
3.		Environment	Cl. No .6 IS 996: 2009
4.		Dimensions	Cl. No .7 IS 996: 2009
5.		Duty and Rating	Cl.No.8 IS 996: 2009
6.		General Construction	Cl.No.9 IS 996: 2009
7.		Type of Enclosure	Cl.No.10 IS 996: 2009
8.		Method of Cooling	Cl.No.11 IS 996: 2009
9.		General Characteristics	Cl.No.12 IS 996: 2009
10.		High Voltage	Cl.No.13.1 IS 996: 2009
11.		Moisture Proofness	Cl.No.13.2 IS 996: 2009
12.		Leakage Current	Cl.No.13.3, IS 996: 2009
13.		Terminal Marking	Cl.No.14 S 996: 2009
14.		Criteria for labelling Environment Friendly products.	Cl.No.15 IS 996: 2009
15.		Marking and Diagram of Connections	Cl.No.16 IS 996: 2009
16.		Tests	Cl.No.17 IS 996: 2009
17.		Rated Conditions of Voltage, Frequency, Output and Speed of Motor	Cl.No.4 IS 996: 2025

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# Quality And Accreditation Institute

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Rotating Electrical Machines		
18.	Single-phase A.C. Industrial Motors	Site Conditions	Cl.No.5 IS 996: 2025
19.		Environment	Cl. No .6 IS 996: 2025
20.		Dimensions	Cl. No .7 IS 996: 2025
21.		Duty and Rating	Cl.No.8 IS 996: 2025
22.		General Construction	Cl.No.9 IS 996: 2025
23.		Type of Enclosure	Cl.No.10 IS 996: 2025
24.		Method of Cooling	Cl.No.11 IS 996: 2025
25.		General Characteristics	Cl.No.12 IS 996: 2025
26.		High Voltage	Cl.No.13.1 IS 996: 2025
27.		Moisture Proofness	Cl.No.13.2 IS 996: 2025
28.		Leakage Current	Cl.No.13.3, IS 996: 2025
29.		Terminal Marking	Cl.No.14 S 996: 2025
30.		Criteria for labelling Environment Friendly products.	Cl.No.15 IS 996:2025
31.		Marking and Diagram of Connections	Cl.No.16 IS 996: 2025
32.	Tests	Cl.No.17 IS 996: 2025	



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous		
1.	Temperature Sensing Controls (Thermostat, Thermal Cut out, temperature Limiter)	Rating	Cl.No.5 IS/IEC 60730 (Part 2)/ Section 9): 2011
2.		Classification	Cl.No.6 (6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16), IS/IEC 60730 (Part 2)/ Section9) : 2011
3.		Information	Cl.7 IS/IEC 60730 (Part 2)/ Section9) : 2011
4.		Protection against electric shock	Cl.8 IS/IEC 60730 (Part 2)/ Section 9) : 2011
5.		Provision for protective earthing	Cl.No.9 IS/IEC 60730(Part 2)/ Section 9) : 2011
6.		Terminals and terminations	Cl.No.10 IS/IEC 60730(Part 2)/ Section 9) : 2011
7.		Constructional requirements	Cl.No.11 IS/IEC 60730(Part 2)/ Section 9) : 2011
8.		Moisture and dust resistance	Cl.No.12 IS/IEC 60730(Part 2)/ Section 9) : 2011
9.		Electric strength and insulation resistance	Cl.No.13 IS/IEC 60730(Part 2)/ Section 9) : 2011
10.		Heating	Cl.No.14 IS/IEC 60730(Part 2)/ Section 9) : 2011

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous		
11.	Temperature Sensing Controls (Thermostat, Thermal Cut out, temperature Limiter)	Manufacturing deviation and drift	Cl.No.15 IS/IEC 60730(Part 2)/ Section 9) : 2011
12.		Environmental stress	Cl.No.16 IS/IEC 60730 (Part 2)/ Section9) : 2011
13.		Endurance	Cl.No.17 IS/IEC 60730(Part 2)/ Section 9) : 2011
14.		Mechanical strength	Cl.No.18 IS/IEC 60730(Part 2)/ Section 9) : 2011
15.		Threaded parts and connections	Cl.No.19 IS/IEC 60730(Part 2)/ Section 9) : 2011
16.		Creepage distances, clearances and distances through solid insulation	Cl. No.20 IS/IEC 60730(Part 2)/ Section9) : 2011
17.		Fire hazard testing	Cl. No.21 IS/IEC 60730(Part 2)/ Section 9) : 2011
18.		Resistance to corrosion	Cl. No. 22IS/IEC 60730(Part 2)/ Section9) : 2011
19.		Components	Cl.No.24 IS/IEC 60730(Part 2)/ Section 9) : 2011
20.		Normal operation	Cl.No.25 IS/IEC 60730(Part 2)/ Section 9) : 2011
21.		Abnormal operation	Cl.No.27 IS/IEC 60730(Part 2)/ Section 9) : 2011
22.		Guidance on the use of electronic disconnection	Cl.No.28 IS/IEC 60730(Part 2)/ Section 9) : 2011

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous		
1.	LPG Gas Stoves	General	Cl.No.4 IS 4246:2002
2.		Materials	Cl.No.5 IS 4246: 2025
3.		Design for maintenance	Cl.No.6 IS 4246: 2002
4.		Rigidity and stability	Cl.No.7 IS 4246: 2002
5.		Workmanship and finish	Cl.No.8 IS 4246: 2002
6.		Gas taps	Cl.No.9 IS 4246: 2002
7.		Injector jets	Cl.No.10 IS 4246: 2002
8.		Burners	Cl.No.11 IS 4246: 2002
9.		Burner pan supports	Cl.No.12 IS 4246: 2002
10.		Gas soundness	Cl.No.13.1 IS 4246: 2002
11.		Gas leak detector	Cl.No.13.2 IS 4246: 2002
12.		Gas inlet connections	Cl.No.14 IS 4246: 2002
13.		Strength and rigidity	Cl.No.15 IS 4246: 2002
14.		General conditions of test	Cl.No.16 IS 4246: 2002
15.		Gas consumption	Cl.No.17 IS 4246: 2002
16.		Ignition and flame travel	Cl.No.18 IS 4246: 2002
17.		Flame Stability	Cl.no.19 IS 4246: 2002
18.		Noise control	Cl.no.20 IS 4246: 2002
19.		Flash back	Cl.no.21 IS 4246: 2002
20.		Formation of soot	Cl.No.22 IS 4246: 2002
21.		Resistance to draught	Cl.No.23 IS 4246: 2002
22.		Combustion	Cl.no.24 IS 4246: 2002
23.		Fire hazard and limiting	Cl.No.25 IS 4246: 2002

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous		
		Temperatures	
24.	LPG Gas Stoves	Thermal efficiency	Cl.No.26 IS 4246: 2002
25.		Classification of tests	Cl.No.27 IS 4246: 2002
26.		Instructions	Cl.No.28 IS 4246: 2002
27.		Marking	Cl.No.29 IS 4246: 2002
28.		Packing	Cl.No.30 IS 4246: 2002
29.		General	Cl.No.4 IS 4246:2025
30.		Materials	Cl.No.5 IS 4246: 2025
31.		Design for maintenance	Cl.No.6 IS 4246: 2025
32.		Rigidity and stability	Cl.No.7 IS 4246: 2025
33.		Workmanship and finish	Cl.No.8 IS 4246: 2025
34.		Gas taps	Cl.No.9 IS 4246: 2025
35.		Injector jets	Cl.No.10 IS 4246: 2025
36.		Burners	Cl.No.11 IS 4246: 2025
37.		Burner pan supports	Cl.No.12 IS 4246: 2025
38.		Gas soundness	Cl.No.13.1 IS 4246:2025
39.		Gas leak detector	Cl.No.13.2 IS 4246: 2025
40.		Gas inlet connections	Cl.No.14 IS 4246: 2025
41.		Strength and rigidity	Cl.No.15 IS 4246:2025
42.		General conditions of test	Cl.No.16 IS 4246: 2025
43.		Gas consumption	Cl.No.17 IS 4246: 2025
44.	Ignition and flame travel	Cl.No.18 IS 4246: 2025	
45.	Flame Stability	Cl.no.19 IS 4246:2025	
46.	Noise control	Cl.no.20 IS 4246:2025	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Miscellaneous		
47.	LPG Gas Stoves	Flash back	Cl.no.21 IS 4246: 2025
48.		Formation of soot	Cl.No.22 IS 4246: 2025
49.		Resistance to draught	Cl.No.23 IS 4246: 2025
50.		Combustion	Cl.no.24 IS 4246: 2025
51.		Fire hazard and limiting Temperatures	Cl.No.25 IS 4246: 2025
52.		Thermal efficiency	Cl.No.26 IS 4246: 2025
53.		Classification of tests	Cl.No.27 IS 4246: 2025
54.		Instructions	Cl.No.28 IS 4246: 2025
55.		Marking	Cl.No.29 IS 4246: 2025
56.		Packing	Cl.No.30 IS 4246: 2025

**\*Note:**

**Scope Extension 1:**

Following scope of accreditation is extended w.e.f. 06 Sep 2025

**Electrical Testing-**

- Domestic Electrical Appliances (S. No.- 3 to 141; Page no. -3 to 20)
- Capacitors (S. No.- 1 to 201; Page no. -1 to 69); Page no. – 21 to 32)
- Rotating Electrical Machines (S. no. – 1 to 16); Page no. 33)
- Miscellaneous (S. No. – 1 to 22; Page no. – 36 to 37)

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### Mechanical Testing –

- Miscellaneous – (S. No. 1 to 28; Page no. 36 to 37)

### Scope Amendment 2:

The following amendments have been done in the scope w.e.f. 04 Nov 2025:

### Mechanical Testing –

- Miscellaneous – (S. No. 29 to 56; Page no. 38 to 39) – Reaffirmed year standard

### Electrical Testing –

- Rotating Electrical Machines- (S.No. 17 to 32; Page no. 33 to 34) – Reaffirmed year standard

