

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Fire Test & Research Laboratory

9th Milestone, Sonipat-Gohana Road, VPO Rattangarh, NH-352 A
Sonipat-131001, Haryana, 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/2025/0135

Valid from: 20 August 2025

Valid until: 19 August 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
1.	First - Aid Hose-Reel for Fire Fighting	General (Components of Hose Reel)	Cl. 3.1 of IS 884:2025
2.		Types & Dimensions of Hose reel	Cl. 4.1 & Cl. 4.2 of IS 884:2025
3.		Construction	Cl. 6 of IS 884
4.		Performance Requirement (Hydrostatic Pressure test)	Cl. 7 (Cl. 7.1) of IS 884:2025
5.		Performance Requirement (Resistance to leakage test)	Cl. 7 (Cl. 7.2) of IS 884:2025
6.		Strength (Impact Resistance Test)	Cl. 7.3 (Cl. 7.3.1) of IS 884:2025
7.		Strength (Load Resistance Test)	Cl. 7.3 (Cl. 7.3.3) of IS 884:2025
8.		Range and Water Flow Rate	Cl. 7.4 of IS 884:2025
9.		Swinging	Cl. 7.5 of IS 884:2025
10.		Reel Action	Cl. 7.6 of IS 884:2025
11.		Resistance To Impact Test for Nozzle	Cl. 7.7 of IS 884:2025
12.		Ageing test for Plastic made nozzle	Cl. 7.8 of IS 884:2025
13.		Resistance to External Corrosion Test	Cl. 7.9 of IS 884:2025

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www.qai.org.in



1 of 14

Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
14.	First - Aid Hose-Reel for Fire Fighting	Workmanship and Finish	Cl. 8.1 of IS 884:2025
15.		Painting	Cl. 8.2 of IS 884:2025
16.		Marking	Cl. 10 of IS 884:2025
17.	Low Expansion Foam Making Branch Pipe and Portable Foam Inductor — Specification	General (Foam Branches)	Cl. 3.1 of IS 2097:2024
18.		Portable Foam Inductors	Cl. 3.2 of IS 2097:2024
19.		Length of pickup tube and dip tube	Cl. 4.4 of IS 2097:2024
20.		Performance Requirements	Cl. 5 of IS 2097:2024
21.		Marking	Cl. 6 of IS 2097:2024
22.	Stand Post Type Water and Water-cum-Foam Monitor for Fire Fighting — Specification	Size, dimension & accessories of monitor	Cl. 3 & Cl. 5 of IS 8442:2024
23.		Workmanship & Finish	Cl. 6 of IS 8442:2024
24.		Anti Corrosive Treatment	Cl. 7 of IS 8442:2024
25.		Painting	Cl. 8 of IS 8442:2024
26.		Performance Requirement Water Monitor & Water cum foam Monitor	Cl. 9 of IS 8442:2024
27.		Leakage Test	Cl. 10 of IS 8442:2024

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www.qai.org.in



2 of 14

Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
28.	Stand Post Type Water and Water-cum-Foam Monitor for Fire Fighting — Specification	Accessories (Nozzle Spanner)	Cl. 11 of IS 8442:2024
29.		Marking	Cl. 12 of IS 8442:2024
30.		Workmanship & Finish	Cl. 4 of IS 903:2025
31.		Design Delivery Hose Coupling	Cl. 5.1 of IS 903:2025
32.		Size and Dimension of coupling	Cl. 5.2 of IS 903:2025
33.		Performance Testing Hydraulic Test of Coupling	Cl. 5.4 & Cl. 9 of IS 903:2025
34.		Branch pipe (Shape and Dimension of Branch Pipe)	Cl.6.1 & Cl. 6.2 of IS 903:2025
35.		Performance Testing Hydraulic Test of Branch Pipe	Cl. 6.4 & Cl. 9 of IS 903:2025
36.		Nozzle (Size & Dimension of Nozzle)	Cl. 7.1 & Cl. 7.2 of IS 903:2025
37.		Performance Testing Hydraulic Test of Nozzle	Cl. 7.4 & Cl. 9 of IS 903:2025
38.		Shape and Dimension of Spanner	Cl. 10.2 of IS 903:2025
39.		Deflection test requirement	Cl. 10.4 of IS 903:2025
40.		Marking	Cl. 11 of IS 903:2025

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www.qai.org.in



3 of 14

Quality And Accreditation Institute

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
41.	Landing Valves – Specification	(Categories) Types of Landing Valves	Cl. 4.1, Cl. 4.5, & Cl. 4.6 of IS 5290:2025
42.		Shape & Dimensions	Cl. 4.2, C. 4.3 & Cl. 4.4 of IS 5290:2025
43.		Finish & Colour of Valves	Cl. 6.1 & Cl. 6.2 of IS 5290:2025
44.		Performance Requirement Water Tightness Test of Valve	Cl. 7.1 of IS 5290:2025
45.		Performance Requirement Hydrostatic Pressure Test	Cl. 7.2 of IS 5290:2025
46.		Flow Test	Cl. 7.3 of IS 5290:2025
47.		Marking	Cl. 8.1 of IS 5290:2025
48.	Portable Fire Extinguishers - Performance & Construction Specification	Service Pressure	Cl. 3.5 & 9.2.1.1 of IS 15683: 2018
49.		Maximum Service Pressure	Cl. 3.6 & 9.2.1.8 of IS 15683: 2018
50.		Minimum Effective Discharge Time & Bulk Range Discharge	Cl. 3.8, 7.2.1, 7.2.2 & 7.2.3 of IS 15683: 2018
51.		Classification of Extinguisher	Cl. 4 of IS 15683:2018
52.		Extinguishing Media	Cl. 5.1 of IS 15683:2018
53.		Propellants	Cl. 5.2 of IS 15683:2018

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www.qai.org.in



4 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Scope of Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
54.	Portable Fire Extinguishers - Performance & Construction Specification	Fill Density	Cl. 5.3.1 of IS 15683:2018
55.		Filling Tolerance	Cl. 5.3.2 of IS 15683:2018
56.		Capacities	Cl. 5.3.3 of IS 15683:2018
57.		Test Pressure	Cl. 6.1 of IS 15683:2018
58.		Minimum Burst Pressure	Cl. 6.2 of IS 15683:2018
59.		Operating Temperature Range	Cl. 7.1 of IS 15683:2018
60.		Resistance to Temperature Changes	Cl. 7.3.1 & 7.3.2 of IS 15683:2018
61.		Retention of Charge Following Partial Discharge	Cl. 7.4.1.1 & 7.4.1.2 of IS 15683: 2018
62.		Leakage Test	Cl. 7.4.2 of IS 15683:2018
63.		Impact Resistance Test	Cl. 7.5.1, 7.5.1.1 & 7.5.1.2 of IS 15683:2018
64.		Vibration Resistance Test	Cl. 7.5.2.1 to 7.5.2.5 of IS 15683:2018
65.		External Corrosion Test	Cl. 7.6.1 of IS 15683:2018
66.		Internal Corrosion Test	Cl. 7.6.2 of IS 15683: 2018
67.		Tapping Test	Cl. 7.7.1 to 7.7.3 of IS 15683: 2018

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www.qai.org.in



5 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Scope of Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
68.	Portable Fire Extinguishers - Performance & Construction Specification	Intermittent Discharge Test	Cl. 7.8.1 & 7.8.2 of IS 15683: 2018
69.		Class A Fire Test	Cl. 8.1.1, 8.2.2 a, & 8.3 of IS 15683: 2018
70.		Class B Test Fire	Cl. 8.1.2, 8.2.2 b & 8.4 of IS 15683: 2018
71.		Class D Test Fire	Cl. 8.1.4 & 8.5 of IS 15683:2018
72.		Class F Test Fire	Cl. 8.1.5, 8.2.2 c, 8.6, 8.7.1 to 8.7.5 of IS 15683:2018
73.		Di-Electric Test	Cl. 8.8 of IS 15683:2018
74.		High- Pressure Cylinder	Cl. 9.1 of IS 15683:2018
75.		Stand Vertically upright position (Requirement)	Cl. 9.2.1.2 of IS 15683:2018
76.		Requirement of Welding	Cl. 9.2.1.3 of IS 15683: 2018
77.		Neck Ring (Construction Requirement)	Cl. 9.2.1.4 of IS 15683: 2018
78.		Cast Analysis	Cl. 9.2.1.5 of IS 15683: 2018
79.		Thread of Plastic Component	Cl. 9.2.1.6 of IS 15683: 2018
80.		Bottom of Extinguisher (Requirement)	Cl. 9.2.1.7 of IS 15683: 2018
81.		Burst Test	Cl. 9.2.2.1 to 9.2.2.6 of IS 15683: 2018

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www.qai.org.in



6 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
82.	Portable Fire Extinguishers - Performance & Construction Specification	Crushing Test	Cl. 9.2.3.1 to 9.2.3.2 of IS 15683: 2018
83.		Pressure Cycling Test	Cl. 9.2.4 of IS 15683:2018
84.		Measure Thickness of the Cylinder	Cl. 9.2.5.3, 9.2.6.3, 9.2.7 & 9.2.8 of IS 15683: 2018
85.		Carrying Handle	Cl. 9.3 of IS 15683:2018
86.		Mounting (Bracket, Hook, Strap & Hanger Loop)	Cl. 9.4 of IS 15683:2018
87.		Caps, Valves & Closure	Cl. 9.5.1 of IS 15683:2018
88.		Requirement of Threaded Connections on Cylinder	Cl. 9.5.2 of IS 15683:2018
89.		Requirement of Filling Opening	Cl. 9.5.3 of IS 15683:2018
90.		Requirement of Collar	Cl. 9.5.4 of IS 15683:2018
91.		Burst Test of Cap, Valve & Closure (Requirement)	Cl. 9.5.5 of IS 15683:2018
92.		Requirement of Edges & Surfaces	Cl. 9.5.6 of IS 15683:2018
93.		Torque for Tightening	Cl. 9.5.7 of IS 15683:2018
94.		Requirement of Edges & Surfaces	Cl. 9.6 of IS 15683:2018

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www.qai.org.in



7 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
95.	Portable Fire Extinguishers - Performance & Construction Specification	Air Oven Ageing	Cl. 9.7.1 of IS 15683:2018
96.		Impact Resistance	Cl. 9.7.2 of IS 15683:2018
97.		Test for Exposure to Extinguishing Medium	Cl. 9.7.3 of IS 15683:2018
98.		Hose Assemblies	Cl. 9.8 of IS 15683: 2018
99.		Method of Operation	Cl. 9.9 of IS 15683:2018
100.		Safety-Locking Devices	Cl. 9.10 & 9.10.1 of IS 15683: 2018
101.		Requirement of Safety Device Material	Cl. 9.10.2 of IS 15683:2018
102.		Requirement of Safety- Locking Pin or Other Device	Cl. 9.10.3, 9.10.4, 9.10.5 & 9.10.6 of IS 15683: 2018
103.		Indicated Range of Pressure (General Requirement)	Cl. 9.11.1 of IS 15683:2018
104.		Checking of Pressure Gauge	Cl. 9.11.2 of IS 15683: 2018
105.		Burst Strength Test - Gauges and Indicators	Cl. 9.11.3 of IS 15683:2018
106.		Water Resistance Test - Gauges and Indicators	Cl. 9.11.4 of IS 15683:2018
107.		Requirement of Dip- Tubes and Filters	Cl. 9.12 of IS 15683:2018

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www.qai.org.in



8 of 14

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
108.	Portable Fire Extinguishers - Performance & Construction Specification	Requirement of Horn for Carbon Dioxide Extinguisher	Cl. 9.13 of IS 15683:2018
109.		Colour (Shade Test)	Cl. 10.1 of IS 15683:2018
110.	Wheeled Fire Extinguisher	Burst Pressure	Cl. 3.4 of IS 16018:2012
111.		Maximum Service Pressure (Pms)	Cl. 3.16 & Cl 8.1.1 of IS 16018:2012
112.		Service Pressure (Ps)	Cl. 3.19 of IS 16018:2012
113.		Test Pressure	Cl. 3.20 of IS 16018:2012
114.		Types of Wheeled Fire Extinguishers	Cl. 4 of IS 16018:2012
115.		Extinguishing Media	Cl. 5.1 of IS 16018:2012
116.		Propellants	Cl. 5.2 of IS 16018:2012
117.		Fill Density	Cl. 5.3 of IS 16018:2012
118.		Filling Tolerance	Cl. 5.4 of IS 16018:2012
119.		Nominal Charges	Cl. 5.5.1 of IS 16018:2012
120.		Gross Mass	Cl. 5.5.2 of IS 16018:2012
121.		Operating Temperature	Cl. 6.1 of IS 16018:2012

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www.qai.org.in



9 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
122.	Wheeled Fire Extinguisher	Minimum Effective Discharge Time	Cl. 6.2.1 of IS 16018:2012
123.		Bulk Range	Cl. 6.2.2 of IS 16018:2012
124.		Resistance to Temperature Changes	Cl. 6.3 of IS 16018:2012
125.		Retention of Charge Following Partial Discharge	Cl. 6.4 of IS 16018:2012
126.		Intermittent Discharge Test	Cl. 6.5 of IS 16018:2012
127.		External Corrosion Test	Cl. 6.6.1 of IS 16018:2012
128.		Internal Corrosion Test	Cl. 6.6.2 of IS 16018:2012
129.		Durability Test	Cl. 6.7 of IS 16018:2012
130.		Di-Electric Test	Cl. 6.8 of IS 16018:2012
131.		Class 'A' Test Fire	Cl. 7.1.1 & 7.2 of IS 16018: 2012
132.		Class 'B' Test Fire	Cl. 7.1.2 & 7.3 of IS 16018: 2012
133.		Leakage Observation	Cl. 8.1.2 of IS 16018:2012
134.		Requirement of Welding	Cl. 8.1.3 of IS 16018: 2012

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www.qai.org.in



10 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
135.	Wheeled Fire Extinguisher	Part Attached to body of cylinder (Stress & Corrosion)	Cl. 8.1.4 of IS 16018:2012
136.		Thread of Plastic Components	Cl. 8.1.6 of IS 16018:2012
137.		Drain Plug	Cl. 8.1.7 of IS 16018:2012
138.		High- Pressure Cylinder	Cl. 8.2 of IS 16018:2012
139.		Burst Test	Cl. 8.3.1 of IS 16018:2012
140.		Deformation Test	Cl. 8.3.2 of IS 16018:2012
141.		Pressure Cycling Test	Cl. 8.3.3 of IS 16018:2012
142.		Minimum Wall Thickness	Cl. 8.6 of IS 16018:2012
143.		Caps, Valves & Closure	Cl. 8.7.1 of IS 16018:2012
144.		Requirement of threaded connections on cylinder	Cl. 8.7.2 of IS 16018:2012
145.		Requirement of Filling Opening	Cl. 8.7.3 of IS 16018:2012
146.		Requirement of Collar	Cl. 8.7.4 of IS 16018:2012
147.		Requirement of Burst Test of Cap, Valve & Closure	Cl. 8.7.5 of IS 16018:2012

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www.qai.org.in



11 of 14

Quality And Accreditation Institute

Centre for International Accreditation

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Valid until: 19 August 2027

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
148.	Wheeled Fire Extinguisher	Requirement of edges & surfaces	Cl. 8.7.6 of IS 16018:2012
149.		Safety & Anti-over Fill devices	Cl. 8.8 of IS 16018:2012
150.		Low Pressure Cylinder	Cl. 8.9.1 of IS 16018:2012
151.		Leakage Test	Cl. 8.9.2 of IS 16018:2012
152.		Air Oven Ageing	Cl. 8.10.1 of IS 16018:2012
153.		Impact Resistance Test	Cl. 8.10.2 of IS 16018:2012
154.		Test for Exposure to Extinguishing Medium	Cl. 8.10.3 of IS 16018:2012
155.		Discharge Assembly	Cl. 8.11 of IS 16018:2012
156.		Control Valve Test	Cl. 8.12 of IS 16018:2012
157.		Horn Test for CO ₂ Fire Extinguishers	Cl. 8.13 of IS 16018:2012
158.		Extinguishers Method of Operation	Cl. 8.14 of IS 16018:2012
159.		Safety-Locking Device	Cl. 8.15 of IS 16018:2012



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
160.	Wheeled Fire Extinguisher	Requirements for Pressure Gauges and Indicators for Low-Pressure Extinguishers	Cl. 8.16.1 of IS 16018:2012
161.		Checking/Verification Test for Pressure Gauges and Indicators	Cl.8.16.2 of IS 16018:2012
162.		Burst Strength Test — Gauges and Indicators	Cl. 8.16.3 of IS 16018:2012
163.		Water Resistance Test — Gauges and Indicators	Cl. 8.16.4 of IS 16018:2012
164.		Requirement of Dip- Tubes & Filters	Cl. 8.17 of IS 16018:2012
165.		Carriage Assembly (Mobility Test)	Cl. 8.18.1 & 8.18.2 of IS 16018: 2012
166.		Hose Retaining Unit	Cl. 8.18.3 of IS 16018: 2012
167.		Ozone Test	Cl. 8.19.1 of IS 16018:2012
168.		Colour Test	Cl. 9.1 of IS 16018:2012



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Fire Equipment & Accessories		
1.	Portable Fire Extinguishers - Performance & Construction Specification	Content of Mono Ammonium Phosphate for ABC Powder type	Cl. 9.14.1 of IS 15683:2018
2.		Content of Sodium Bicarbonate/Potassium Bicarbonate for BC Powder Type	Cl. 9.14.2 of IS 15683:2018
3.		Surface Tension for Foam Type	Cl. 9.14.3 of IS 15683:2018
4.	Wheeled Fire Extinguishers - Performance & Construction Specification	Content of Mono Ammonium Phosphate for ABC Powder type	Cl. 5.5.3.1 of IS 16018:2012
5.		Content of Sodium Bicarbonate/Potassium Bicarbonate for BC Powder Type	Cl. 5.5.3.2 of IS 16018:2012
6.		Surface Tension for Foam Type	Cl. 5.5.3.3 of IS 16018:2012

