



(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

UL INDIA PRIVATE LIMITED, **UL-JAIN FIRE LABORATORY**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Jain University Global Campus, Jakkasandra, Kanakpura Taluk, Ramanagara Dist., Karnataka

in the field of

TESTING

Certificate Number TC-8159

Issue Date

30/11/2018

Valid Until

29/11/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



Anil Relia Chief Evecutive Officer







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SCOPE OF ACCREDITATION

Laboratory UL India Private Limited, UL-Jain Fire Laboratory, Jain University

Global Campus, Jakkasandra, Kanakpura Taluk, Ramanagara Dist.,

Karnataka

Accreditation Standard ISO/IEC 17025: 2005

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Validity 30.11.2018 to 29.11.2020

Last Amended on --

SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
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CHEMICAL TESTING

I.	FIRE FIGHTING E	QUIPMENTS & ACCESSO	PRIES	
1.	Aqueous Film	Sedimentation	IS 4989 Clause 3.1	Qualitative
	Forming Foam (AFFF), Protein Foam, Film Forming Fluoro	рН	IS 4989 Annex A; ICAO Doc 9137-AN/898, Part 1, Fourth Edition Chapter 8, Section 8.1.5	1.00 to 14.00
	Protein &	Specific Gravity	IS 4989 Annex B	0.5 to 1.50
	Synthetic Foam	Miscibility	IS 4989 Annex C	Qualitative
		Pour Point	IS 4989 Annex D	-30 °C to 30 °C
		Sludge Content	IS:4989 Annex E; ICAO Doc 9137-AN/898, Part 1, Fourth Edition Chapter 8, Section 8.1.5	0.02 % to 2.0 %
		Surface Tension	IS:4989 Annex F	1 to 90 dynes/cm
		Interfacial Tension	IS:4989 Annex F	1 to 90 dynes/cm
		Spreading Coefficient	IS:4989 Annex F	-10 to +10 dynes/cm
		Viscosity	SOP 12-LO-W1013; ICAO Doc 9137-AN/898, Part 1, Fourth Edition Chapter 8, Section 8.1.5	1 to 30 cSt
2.	Alcohol	pH	IS 4989 (Part 4) Annex A	1.00 to 14.00
	Resistance	Specific Gravity	IS 4989 (Part 4) Annex B	0.5 to 1.50
	Aqueous Film	Pour Point	IS 4989 (Part 4) Annex C	-30°C to +30°C
	Form Foam	Surface Tension	IS 4989 (Part 4) Annex D	1 to 90 dynes/cm
	(AR-AFFF)	Interfacial Tension	IS 4989 (Part 4) Annex D	1 to 90 dynes/cm
	a) 3 x 3 b) 3 x 6	Spreading Coefficient	IS 4989 (Part 4) Annex D	-10 to +10 dynes/cm
		Film Formation	IS 4989 (Part 4) Annex E	Qualitative

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Amit Kumar Convenor







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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Polymeric Film Formation	IS 4989 (Part 4)	Qualitative
3.	Dry Chemical Powder for	Chemical Content	IS 4308 Clause 4.3	0 to 99 %
	Fighting B and C Class Fires	Hygroscopicity	IS 4308 Clause 4.5	0.1 % to 10 %
		Caking Test	IS 4308 Clause 4.6	Qualitative
		Water Repellency	IS 4308 Clause 4.7	0.1 % to 10 %
		Moisture Content	IS 4308 Clause 4.8	0.01 % to 12 %
		Heat Resistance Test	IS 4308 Clause 4.9	Qualitative
4.	Dry Chemical Powder for	Hygroscopicity	IS 14609 Clause 4.5	0.1 % to 10 %
	Fighting A,B, C Class Fires	Caking Test	IS 14609 Clause 4.6	Qualitative
		Water Repellency	IS 14609 Clause 4.7	0.1 % to 10 %
		Moisture Content	IS 14609 Clause 4.8	0.01 % to 12 %
		Heat Resistance Test	IS 14609 Clause 4.9	Qualitative

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SI. Product / Material Specific Test Test Method Specification Range of Testing / against which tests are performed performed

MECHANICAL TESTING

I.	PERFORMANCE T	EST		
1.	Aqueous Film	Pour Point	IS 4989 Annex D	-30 °C to 30 °C
	Forming Foam	Film Formation	IS 4989 Annex H	Qualitative
	(AFFF), Protein Foam, Film Forming Fluoro	Expansion	IS 4989 Annex J ICAO DOC 9137-AN/898 Clause 8.1.7.6	1 to 20
	Protein & Synthetic Foam	25 % Drain Time	IS 4989 Annex J ICAO DOC 9137-AN/898 Clause 8.1.7.6	1 sec to 20 minutes
		Fire Control	IS 4989 Annex K	Qualitative
		Fire Test	IS 4989 Annex-K 2.2	Qualitative
		Burn Back Test	IS 4989 Annex-K 2.3	Qualitative
		Sealability	IS 4989 Annex-K 2.3	Qualitative
2.	Alcohol	Pour Point	IS 4989 (Part 4) Annex C	-30 °C to +30 °C
	Resistance	Film Formation	IS 4989 Part 4, E-5	Qualitative
	Aqueous Film		(Amendment No.1)	
	Form Foam	Expansion	IS 4989 Part 4 Annex F	1 to 20
	(AR-AFFF)	25% Drain Time	IS 4989 Part 4 Annex G	1sec to 20 minutes
	a) 3 x 3	Fire Control	IS 4989 Part 4 Annex J	Qualitative
	b) 3 x 6	Fire Test	IS 4989 Part 4 Annex H	Qualitative
		Burn Back Test	IS 4989 Part 4 Annex K	Qualitative
3.	Aqueous Film Forming Foam (AFFF), Protein	Fire Performance Test	ICAO DOC 9137-AN/898 Table 8-1, Section 8.1.8, 8.1.9 and 8.1.10	Qualitative
	Foam, Film Forming Fluoro	Fire Extinction test	ICAO DOC 9137-AN/898 Table 8.1	Qualitative
	Protein & Synthetic Foam	25% reignition time (Burn back resistance period)	ICAO DOC 9137-AN/898 Table 8.1	Qualitative

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Validity



National Accreditation Board for Testing and Calibration Laboratories



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4.	Dry Chemical Powder for	Apparent Density	IS 4308 Clause 4.2	0.30 gm/ml to 2.10 gm/ml
	Fighting B and C Class Fires	Particle Size Distribution (Sieve Analysis)	IS 4308 Clause 4.4	40 mesh 100 mesh 200 mesh 325 mesh
		Free Flowing Characteristics	IS 4308 Clause 4.10	1 g/sec to 200 g/sec
		Foam Compatibility	IS 4308 Clause 4.11	Qualitative
		Fire Knocking down for Class B fires	IS 4308 Cause 4.12.1	Qualitative
5.	Dry Chemical Powder for	Apparent Density	IS 14609 Clause 4.2	0.30 gm/ml to 2.10 gm/ml
	Fighting A,B, C	Particle Size	IS 14609	40 mesh
	Class Fires	Distribution	Clause 4.4	100 mesh
		(Sieve Analysis)		200 mesh
		<u> </u>		325 mesh
		Free Flowing Characteristics	IS 14609 Clause 4.10	1 gm/sec to 200 gm/sec
		Foam Compatibility	IS 14609 Clause 4.11	Qualitative
		Fire Knocking down For Class A fires	IS 14609 Clause 4.12.1	Qualitative
		Fire Knocking down For Class B fires.	IS 14609 Clause 4.12.2	Qualitative
6.	Firefighting	Fill density	IS 15683 Clause 5.3.1	0.5 to 1kg/l
	Portable Fire	Filling Tolerance	IS 15683 Clause 5.3.2	Upto 60 kgs.
	Extinguishers	Test pressure	IS 15683 Clause 6.1	Upto 200 bar (20 MPa)
		Minimum Burst pressure	IS 15683 Clause 6.2	Upto 600 bar (60 MPa)
		Minimum effective discharge time for Class A rated Extinguishers	IS 15683 Clause 7.2.1	Upto 10 min.

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Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Minimum effective discharge time for Class B rated Extinguishers	IS 15683 Clause 7.2.2	Upto 10 min
	Bulk Range Throw	IS 15683 Clause 7.2.3	10 mm to 3 m
	Resistance to temperature changes	IS 15683 Clause 7.3	Amb.to 120 °C & amb.to (-) 80 °C
	Retention of charge following partial discharge	IS 15683 Clause 7.4.2	Up to 100%
	Leakage Test (Type Test)	IS 15683 Clause 7.4.3	Qualitative
	Resistance to Impact (Mechanical resistance)	IS 15683 Clause 7.5.1	Qualitative
	External Corrosion Test	IS 15683 Clause 7.6.1	Qualitative
	Internal Corrosion Test	IS 15683 Clause 7.6.2	Qualitative
	Tapping Test (Type Test)	IS 15683 Clause 7.7	Qualitative
	Intermittent Discharge test	IS 15683 Clause 7.8	Upto 100 %
	Class A Test Fire	IS 15683 Clause 8.1.1 & 8.3	Qualitative
	Class B Test Fire	IS 15683 Clause 8.1.2 & 8.4	Qualitative
	Determination of Maximum Service Pressure (Pms)	IS 15683 Clause 9.2.1.8	Qualitative
	Burst test	IS 15683 Clause 9.2.2.1 to 9.2.2.6	Upto 600 bar (60 MPa)
	Crushing Test	IS 15683 Clause 9.2.3	10mm to 200 mm
	Pressure Cycling Test	IS 15683 Clause 9.2.5	0.2 bar to 10 bar (20 kPa to 1000 kPa)
	1967 - PAGESTONIO INTERNATIONAL SERVICIONAL SERVICIONA	Minimum effective discharge time for Class B rated Extinguishers Bulk Range Throw Resistance to temperature changes Retention of charge following partial discharge Leakage Test (Type Test) Resistance to Impact (Mechanical resistance) External Corrosion Test Internal Corrosion Test Internal Corrosion Test Tapping Test (Type Test) Intermittent Discharge test Class A Test Fire Determination of Maximum Service Pressure (Pms) Burst test Crushing Test	of Test Performed against which tests are performed Minimum effective discharge time for Class B rated Extinguishers IS 15683 Clause 7.2.2 Bulk Range Throw IS 15683 Clause 7.2.3 Resistance to temperature changes IS 15683 Clause 7.3 Retention of charge following partial discharge IS 15683 Clause 7.4.2 Leakage Test (Type Test) IS 15683 Clause 7.4.3 Resistance to Impact (Mechanical resistance) IS 15683 Clause 7.5.1 External Corrosion Test (Mechanical resistance) IS 15683 Clause 7.6.1 Internal Corrosion Test (Type Test) IS 15683 Clause 7.6.2 Tapping Test (Type Test) IS 15683 Clause 7.7 Intermittent Discharge test IS 15683 Clause 7.8 Class A Test Fire IS 15683 Clause 8.1.1 & 8.3 Clause B Test Fire IS 15683 Clause 8.1.2 & 8.4 Determination of Maximum Service Pressure (Pms) IS 15683 Clause 9.2.1.8 Pressure (Pms) IS 15683 Clause 9.2.2.1 to 9.2.2.6 Crushing Test IS 15683 Clause 9.2.3

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		Requirement of mounting bracket	IS 15683 Clause 9.4.3 & 9.4.4	1 g to 80 kg
		Method of Operation	IS 15683 Clause 9.10	1 N to 250 N
		Safety-locking device	IS 15683 Clause 9.11 & 9.11.1	1 N to 250 N
		Requirement of safety- locking pin or other device	IS 15683 Clause 9.11.6	Qualitative
		Colour Test	IS 15683 Clause 9.14	Qualitative

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