FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.

CERTIFICATE OF ACCREDITATION

(AS PER ISO/IEC 17025:2017)

This is to attest that

M/s QTEX CONSUMER PRODUCTS SERVICES INDIA PRIVATE LIMITED.

Block-C, C-1, Dayal Bagh Colony, Faridabad-121009 (Haryana), India

Calibration Laboratory

has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories and supplementary criteria for calibration laboratories.

Certificate Number: CL-118

Issue Date: 31.01.2024 **Valid Until:** 30.01.2026

The certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard and the relevant requirements of FDAS. (for scope of accreditation visit website www. fdasindia.org).

DEVI SARAN TEWARI
Director

FEDERATION FOR DEVELOPMENT OF ACCREDITATION SERVICES

118-119, First Floor, Sushant Tower, Sector – 56, Gurugram – 122011, Haryana, India.

SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 118)

Laboratory Name: Qtex Consumer Products Services India Private Limited
Block-C, C-1, Dayal Bagh Colony, Faridabad, Haryana, 121009

Validity 31.01.2024 to 30.01.2026 Amended on N/A

Chemical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
1	pH Indicator With/ Without Sensor	Using Std buffer Solutions Direct method	4.01 pH 7.00 pH 10.01 pH	± 0.02 pH
2	Conductivity With/ Without Sensor	Using Std buffer Solutions Direct method	12880 µS/cm	± 2.22 %
3	Total Dissolved Solids: TDS Meter	Using Std buffer Solutions Direct method	1000 mg/l (ppm)	± 1.61 %
4	Turbidity: Turbidity Meter	Direct Comparison to Turbidity Standard Solution Based on ASTM D 7726-11 (2018) QTCL/CP/TT/520	1000 NTU	± 0.20 %

Chemical Calibration (at Site)

1	pH Indicator With/ Without Sensor	Using Std buffer Solutions Direct method	4.01 pH 7.00 pH 10.01 pH	± 0.02 pH
2	Conductivity With/ Without Sensor	Using Std buffer Solutions Direct method	12880 µS/cm	± 2.22 %
3	Total Dissolved Solids: TDS Meter	Using Std buffer Solutions Direct method	1000 mg/l (ppm)	± 1.61 %
4	Turbidity: Turbidity Meter	Direct Comparison to Turbidity Standard Solution Based on ASTM D 7726-11 (2018) QTCL/CP/TT/520	1000 NTU	± 0.20 %

Dealing Officer

SCOPE OF ACCREDITATION

(Annexure to Certificate of CL - 118)

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Block-C, C-1, Dayal Bagh Colony, Faridabad, Haryana, 121009

Validity 31.01.2024 to 30.01.2026 Amended on N/A

Electro-technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Time & Frequency, (Measure)				
1	Timer/Stopwatch/ Timer indicator of associated testing machine's	Digital timer calibrator/ Digital Stopwatch-Comparison method QTCL/CP/ET/114	0.2 to 1 s 1 s to 1 min 1 min to 1 Hr. 1 Hr. to 24 Hr.	0.06 s 0.16 s 1.4 s 8.6 s
2	Counter Meter/Pulse Counter /Counter indicator of associated testing machine's	Using counter calibrator by comparison method QTCL/CP/ET/118	10 to 10000 Count	2.3 Count
3	Frequency	Using 6½ DMM by Comparison Method QTCL/CP/ET/106	10 Hz to 300 kHz	0.14%
Alternating Current (< 1 GHz) (Measure)				
1	AC VOLTAGE @ 50 Hz (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/102	50 mV to 1000 V	0.19 %
2	AC CURRENT@ 50 Hz (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/104	100 µA to 10 A	0.32 % to 0.47 %
3	AC High Voltage (Measure)	Using HV probe with 4.5 Dig. Multi Meter QTCL/CP/ET/119	1 kV to 25 kV	4.0%
Alternating Current (< 1 GHz) (Source)				
1	AC CURRENT@ 50 Hz (Source)	Using Multi-Function Calibrator (Zeal) & Current coil QTCL/CP/ET/103	100 µA to 1000 A	0.39 % to 3.39 %

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Block-C, C-1, Dayal Bagh Colony, Faridabad, Haryana, 121009

Validity 31.01.2024 to 30.01.2026 Amended on N/A

Electro-technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
2	AC VOLTAGE @ 50 Hz (Source)	Using Multi-Function Calibrator (Zeal)QTCL/CP/ET/101	20 mV to 1000 V	0.56 % to 0.20 %
Direct Current (Measure)				
1	DC CURRENT (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/104	100 µA to 10 A	0.30 % to 0.41 %
2	DC VOLTAGE (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/102	10 mV to 1000 V	0.68 % to 0.04 %
3	DC High Voltage (Measure)	Using HV probe with 4.5 Dig. Multi Meter (Fluke)QTCL/CP/ET/119	1 kV to 25 kV	4.0%
4	DC RESISTANCE (Measure)	Using 6 ½ Digit Digital Multi meter by comparison method QTCL/CP/ET/108	1 Ohm to 1 GOhm	1.47 % to 4.75 %
Direct Current (Source)				
1	DC CURRENT (Source)	Using Multi-Function Calibrator (Zeal) & Current coil QTCL/CP/ET/103	100 µA to 1000 A	0.20 % to 3.06 %
2	DC VOLTAGE (Source)	Using Multi-Function Calibrator (Zeal)QTCL/CP/ET/101	1 mV to 1000 V	0.90 % to 0.20 %

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Validity 31.01.2024 to 30.01.2026 Amended on N/A

Electro-technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Temperature Simulation (Measure)				
1	Temperature Simulation (Indicator/Controller, PID, Datalogger, Scanner & Recorder) T-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 to 400 °C	0.8 °C
2	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) :RTD(PT 100)	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 800 °C	0.8 °C
3	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) K-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 1300 °C	0.8 °C
4	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) R-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	100 °C to 1700 °C	0.8 °C

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Validity 31.01.2024 to 30.01.2026 Amended on N/A

Electro-technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
5	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) S-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	100 °C to 1700 °C	0.8 °C
Temperature Simulation (Source)				
1	Temperature Simulation (Indicator/Controller, PID, Datalogger, Scanner & Recorder)T-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 °C to 400 °C	0.8 °C
2	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) :RTD(PT 100)	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 800 °C	0.8 °C
3	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) J-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 1100 °C	0.8 °C

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Electro-technical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
4	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) K-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 1300 °C	0.8 °C
5	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) R-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 °C to 1700 °C	0.8 °C
6	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) S-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 °C to 1700 °C	0.8 °C

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Validity 31.01.2024 to 30.01.2026 Amended on N/A

Electro-technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Time & Frequency, (Measure)				
1	Timer/Stopwatch/ Timer indicator of associated testing machine's	Digital timer calibrator/ Digital Stopwatch-Comparison method QTCL/CP/ET/114	0.2 to 1 s 1 s to 1 min 1 min to 1 Hr. 1 Hr. to 24 Hr.	0.06 s 0.16 s 1.4 s 8.6 s
2	Counter Meter/Pulse Counter /Counter indicator of associated testing machine's	Using counter calibrator by comparison method QTCL/CP/ET/118	10 to 10000 Count	2.3 Count
3	Frequency	Using 6½ DMM by Comparison Method QTCL/CP/ET/106	10 Hz to 300 kHz	0.14%
Alternating Current (< 1 GHz) (Measure)				
1	AC VOLTAGE @ 50 Hz (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/102	50 mV to 1000 V	0.13 % to 0.19 %
2	AC CURRENT@ 50 Hz (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/104	100 µA to 10 A	0.32 % to 0.47 %
3	AC High Voltage (Measure)	Using HV probe with 4.5 Dig. Multi Meter QTCL/CP/ET/119	1 kV to 25 kV	4.0%
Alternating Current (< 1 GHz) (Source)				
1	AC CURRENT@ 50 Hz (Source)	Using Multi-Function Calibrator (Zeal) & Current coil QTCL/CP/ET/103	100 µA to 1000 A	0.39 % to 3.39 %
2	AC VOLTAGE @ 50 Hz (Source)	Using Multi-Function Calibrator (Zeal)QTCL/CP/ET/101	20 mV to 1000 V	0.56 % to 0.20 %

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Electro-technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Direct Current (Measure)				
1	DC CURRENT (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/104	100 µA to 10 A	0.30 % to 0.41 %
2	DC VOLTAGE (Measure)	Using Digital Multi meter (6 ½ Digit) QTCL/CP/ET/102	10 mV to 1000 V	0.68 % to 0.04 %
3	DC High Voltage (Measure)	Using HV probe with 4.5 Dig. Multi Meter (Fluke)QTCL/CP/ET/119	1 kV to 25 kV	4.0%
4	DC RESISTANCE (Measure)	Using 6 ½ Digit Digital Multi meter by comparison method QTCL/CP/ET/108	1 Ohm to 1 GOhm	1.47 % to 4.75 %
Direct Current (Source)				
1	DC CURRENT (Source)	Using Multi-Function Calibrator (Zeal) & Current coil QTCL/CP/ET/103	100 µA to 1000 A	0.20 % to 3.06 %
2	DC VOLTAGE (Source)	Using Multi-Function Calibrator (Zeal)QTCL/CP/ET/101	1 mV to 1000 V	0.90 % to 0.20 %
Temperature Simulation (Measure)				
1	Temperature Simulation (Indicator/Controller ,PID, Datalogger, Scanner & Recorder) T-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 to 400 °C	0.8 °C

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Electro-technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
2	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) :RTD(PT 100)	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 800 °C	0.8 °C
3	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) K-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 1300 °C	0.8 °C
4	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) R-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	100 °C to 1700 °C	0.8 °C
5	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) S-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	100 °C to 1700 °C	0.8 °C

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Electro-technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Temperature Simulation (Source)				
1	Temperature Simulation (Indicator/Controller, PID, Datalogger, Scanner & Recorder) T-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 °C to 400 °C	0.8 °C
2	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) : RTD (PT 100)	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 800 °C	0.8 °C
3	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) J-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 1100 °C	0.8 °C
4	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) K-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	-200 °C to 1300 °C	0.8 °C

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Electro-technical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
5	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) R-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 °C to 1700 °C	0.8 °C
6	Temperature Simulation (Indicator/Controller, PID, Data logger, Scanner & Recorder) S-Type Thermocouple	Using Universal calibrator by direct method, QTCL/CP/ET/117	0 °C to 1700 °C	0.8 °C

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Dimension				
1	Steel Scale / Measuring Scale / Shrinkage Scale L.C. 0.005 mm	Using Scale & Tape Calibrator by comparison method QTCL/CP/M/204	0 to 2000 mm	64 µm + (15×L) µm, where L is in meter
2	Measuring Tape/Pi tape L.C: 1 mm	Using Scale & Tape Calibrator by comparison method QTCL/CP/M/204	0 to 50 M	(60+27 L) µm, L is in meter
3	Sample Cutter/Diameter of cut sample	Using Dig. Caliper by direct method, ASTM D3776/D2646, ISO 3801, BS 3424/2471, BS EN 12127, ASTM D4966, ISO 17076-2, ISO 17704, ISO 12947, ISO 12945-2, ASTM D4970, ISO 20344, ISO 26082- 1, ISO 5470-2 and QTCL/CP/TT/501	30 mm to 150 mm	37 µm
4	Pick Glass/GLASS SCALE	Using Profile Projector by direct method ASTM D3775, ASTM D3887 ISO 7211-2, IS 1963, DIN EN 1049-2, SASO 183, JIS B 7541 and QTCL/CP/M/225	0 to 250 mm	0.02 mm
5	Angle Fixture	Angle protractor QTCL/M/CP/209	0 to 180°	2’
6	Plunger gauge-	Slip Gauge set	0 To 100 mm	0.005 mm

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Dial/Digital	QTCL/CP/M/203		
7	Caliper- Dial/Digital/ Vernier	Using Caliper Checker & Slip Gauge by comparison method QTCL/CP/M/211	0 to 600 mm	13 µm
8	External Micrometer	Slip Gauge set QTCL/CP/M/218	0 To 150 mm	0.002 mm
9	Thickness gauge- Dial/Digital	Slip Gauge set QTCL/CP/M/203	0 To 100 mm	0.005 mm
10	Calibration of jigs & fixtures, Industrial Templates/Weld gauge /Bridge Cam Gauge /Limit Gauges/ Cube Mould/ Slump Cone / Welding Gauge/Weld Fillet Gauge/ Flakiness Gauge/ Elongation Gauge/ Plain Work Piece/ Lever Arm/ Test Mandrel (ID, OD, HEIGHT, THICKNESS)	Using Profile projector/ Digital Caliper QTCL/CP/M/236	0 to 500 mm	0.11 mm
11	Templates/ Scale/T scale/ L scale (Shrinkage/Skewness/ Tensile/Tear/Seam)	Digital Caliper AATCC 135, ISO 6330 ASTM D5034, ASTM D1424 ISO 13934-1/ ISO 13934-2, ISO 13935-2 / ISO 13936-1, ISO 13937-1, ASTM D1683 and QTCL/CP/TT/504	0 to 1000 mm	0.11 mm

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
12	Radius Gauges (concave and convex profiles) L.C. 0.001 mm	Using Profile Projector by comparison method QTCL/CP/M/202	0.6 mm to 40 mm	13 µm
13	Test Sieves	Using Profile projector by comparison method QTCL/CP/M/224	30 µm to 150 mm	5.0 µm to 20.0 µm
14	Height Gauge (Dial, Digital, Manual) L.C. 0.01 mm	Using Caliper Checker by comparison method QTCL/CP/M/212	0 to 600 mm	15 µm
15	Coating Thickness Gauge L.C: 0.001 mm	Using Standard Thickness Foils by Comparison Method QTCL/CP/M/207	9 µm to 703 µm	0.005 mm
16	Profile Projector /VMM/ Microscope – (Angle, Linear, Magnification)	Using Angle Gauge, Glass Scale, Digital Caliper QTCL/CP/M/205	0° to 360 °, 0 to 360mm 2X to 100X	213 sec 9.8 µm 0.50%
17	Bevel Protractor / Combination Set (Angle) L.C. 1 '	Using Angle Gauge Block Set By Comparison Method	0 to 180 °	1.5'
Pressure & Vacuum				
1	Pressure - Pressure Gauges, Transmitter, Magnehelic Gauge,	Using Digital Pressure Gauge (2 bar and 10 bar) / DKD R6-1, QTCL/CP/M/213	0 to 2 bar 0 to 10 bar	± 0.21 %

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Pressure switch, Transducer, Manometer			
2	Pressure - Pressure Gauges/Pressure Transducer/Manometer / Dead weight tester	Using Digital Pressure Gauge (70 bar) / DKD R6-1 QTCL/CP/M/213	0 to 70 bar	± 0.24 %
3	Pressure - Pressure Gauges/Pressure Transducer/Manometer	Using Digital Pressure Gauge (700 bar) / DKD R6-1 QTCL/CP/M/213	0 to 700 bar	± 0.33 %
4	Vacuum Gauge, Vacuum Transducer, Transmitter	Using Digital Pressure Gauge (-1 to 0 bar) / DKD R-6-1 QTCL/CP/M/226	-1 to 0 bar	± 0.33 %
Mass & volume				
1	Mass Class E2 & Coarser	Using standard Weights (E1 Class), Precision balance (d:0.1mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 QTCL/CP/M/215	1 mg,2 mg, 5 mg 10 mg, 20 mg 50 mg 100 mg 200 mg 500 mg 1 g, 2 g 5 g, 10 g 20 g, 50 g	0.01mg 0.01 mg 0.01 mg 0.01 mg 0.02 mg 0.02 mg 0.02 mg 0.03 mg 0.04 mg
2	Mass Class F1 & Coarser	Using standard Weights (E1 Class),	100 g 200 g	0.2 mg 0.3 mg

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		Precision balance (d:0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 QTCL/CP/M/215		
3	Mass Class F2 & Coarser	Using standard Weights (F1 Class), Precision balance (d:0.001 g,0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1QTCL/CP/M/215	500 g 1000 g 2000 g 5000 g	4 mg 6 mg 12 mg 40 mg
4	Mass Class M2 & Coarser	Using standard Weights (F2 Class), Dig. Weighing balance (d:0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111-1 QTCL/CP/M/215	10000 g 20000 g	300 mg 400 mg
5	Mass Class M3 & Coarser	Using standard Weights (M1 Class), Dig. Weighing balance (d:0.001 kg) by Substitution Method (ABBA Cycle) as per OIML R-111-1 QTCL/CP/M/215	50000 g	4000mg
6	Glassware's (Pipette, Burette, Measuring Cylinder/Jar, Volumetric flask Graduated	Using Weighing Balance (0.01mg least count) & Standard Weights of Accuracy Class E1 & Distilled water by Gravimetric method on	0.1 to 10 ml	0.002 ml
			10 to 100 ml	0.01 ml

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Pipette/ One Mark Pipette, Clevenger Apparatus)	ISO 4787:2021 & ISO TR 20461:2000 QTCL/CP/M/217		
		Using Weighing Balance (1mg least count) & Standard Weights of Accuracy Class E1 & Distilled water by Gravimetric method on ISO 4787:2021 &ISO TR 20461:2000 QTCL/CP/M/217	100 to 1000 ml	1 ml
		Using Weighing Balance (10mg least count) & Standard Weights of Accuracy Class F1 Distilled water by Gravimetric method on ISO 4787:2021 & ISO TR 20461:2000 QTCL/CP/M/217	1000 to 2000 ml	1.5 ml
7	Pipettes/ Micropipette (Piston operated)	Using Weighing Balance (0.01mg least count) & Standard Weights of Accuracy Class E1 & Distilled water by Gravimetric method on ISO 8655 (Part 6):2022 QTCL/CP/M/233	10 µl to 1000 µl 1 To 10 ml 10 ml to 200 ml	2 µl 3 µl 13 µl

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Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
08	Pipettes/ Micropipette	Using Weighing Balance (0.01mg least count) & Standard Weights of Accuracy Class F1 Distilled water by Gravimetric method on ISO 8655 (Part 6):2022 QTCL/CP/M/233	100 to 1000µl	1.7 µl
09	Pipettes/ Micropipette	Using Weighing Balance (0.01 mg least count) & Standard Weights of Accuracy Class E1 & Distilled water by Gravimetric method on ISO 8655 (Part 6) :2022 QTCL/CP/M/233	1ml to 5 ml	0.086 ml
10	Pipettes/ Micropipette	Using Weighing Balance (0.01 mg least count) & Standard Weights of Accuracy Class E1 & Distilled water by Gravimetric method on ISO 8655 (Part 6) :2022 QTCL/CP/M/233	5 ml to 10 ml	0.086ml
Acoustics				
1	Sound level Meter	Using Sound Level Calibrator by Direct Method QTCL/CP/M/235	94 dB @ 1 kHz 114 dB @ 1 kHz	0.8 dB

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Block-C, C-1, Dayal Bagh Colony, Faridabad, Haryana, 121009

Validity 31.01.2024 to 30.01.2026 Amended on N/A

Mechanical Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Acceleration and Speed				
1	RPM INDICATOR of Centrifuge/Shaker/ Stirrer/Mixer (Non –Contact Type)	Using Tachometer as per SANAS TR-45-01:2008 &SANAS TR-45-02:2017 by Comparison method QTCL/CP/M/234	10 to 1000 rpm 1000 to 15000 rpm 15000 to 30000rpm	0.5% rdg. 0.5% rdg. 0.5% rdg.
2	RPM Meter, Tachometer (Contact type)	Using Tachometer as per TR-45-01:2008 &SANAS TR-45-02:2017 by Comparison method QTCL/CP/M/234	45 to 3000 rpm	0.5% rdg.
3	RPM Meter, Tachometer, Stroboscope (Non-Contact type)	Using Tachometer as per TR-45-01:2008 &SANAS TR-45-02:2017 by Comparison method QTCL/CP/M/234	10 rpm to 30000 rpm	0.5% rdg.
Force- Force measuring devices.				
1	Push Pull gauge/Force Gauge/Pull tester Dial/Digital	VDI-VDE 2624 Part2.1 IS-4169Using Load Cell with Indicator (50 N, 1 kN) QTCL/CP/M/227	5 N to 50 N 50 N to 1000 N	± 0.50 % ± 0.50 %
Force- Hardness				
2	Durometer (Shore A, B, E, O, C, D & DO)	Using Durometer Calibrator by Comparison Method ASTM D2240 and QTCL/CP/M/237	0 to 100 Shore	0.60 Shore

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Dimension				
1	Sample Cutter/Diameter of cut sample	Using Dig. Caliper by direct method, ASTM D3776/D2646, ISO 3801, BS 3424/2471, BS EN 12127, ASTM D4966, ISO 17076-2, ISO 17704, ISO 12947, ISO 12945-2, ASTM D4970, ISO 20344, ISO 26082- 1, ISO 5470-2 and QTCL/CP/TT/501	30 mm to 150 mm	37 µm
2	Profile Projector /VMM/ Microscope – (Angle, Linear, Magnification)	Using Angle Gauge, Glass Scale, Digital Caliper QTCL/CP/M/205	0° to 360 °, 0 to 360mm 2X to 100X	81sec 9.8 µm 0.5%
3	Calibration of jigs & fixtures, Industrial Templates /Traverse Of Cupping Machine /Limit Gauges/ Cube Mould/ Slump Cone / Flakiness Gauge/ Elongation Gauge/ Lever Arm/ Test Mandrel(ID, OD, HEIGHT,THICKNESS)	Using Digital Caliper QTCL/CP/M/236	0 to 500 mm	0.11 mm
4	Templates/ Scale/T scale/ L scale (Shrinkage/Skewness / Tensile/Tear/Seam)	Digital Caliper AATCC 135, ISO 6330 ASTM D5034, ASTM D1424 ISO 13934-1/ ISO 13934-2, ISO 13935-2 / ISO 13936-1, ISO	0 to 1000 mm	0.11 mm

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
		13937-1, ASTM D1683 and QTCL/CP/TT/504		
5	Calibration of Speed of Material Testing Machine/UTM/CTM	Using Height Gauge, Lever Dial, Stop Watch and Hygrometer as per ASTM E 2658-2015 by Comparison Method QTCL/CP/M/238	0 to 100 mm/min 100 to 500 mm/min	0.11 mm/min 1.5 mm/min
Pressure & Vacuum				
1	Pressure - Pressure Gauges, Transmitter, Pressure switch, Transducer, Manometer	Using Digital Pressure Gauge (2 bar and 10 bar) / DKD R6-1 QTCL/CP/M/213	0 to 10 bar	± 0.21 %
2	Pressure - Pressure Gauges/Pressure Transducer/Manometer	Using Digital Pressure Gauge (70 bar) / DKD R6-1 QTCL/CP/M/213	0 to 70 bar	± 0.24 %
3	Pressure - Pressure Gauges/Pressure Transducer/Manometer	Using Digital Pressure Gauge (700 bar) / DKD R6-1 QTCL/CP/M/213	0 to 700 bar	± 0.33 %
4	Vacuum Gauge, Vacuum Transducer, Transmitter	Using Digital Pressure Gauge (-1 to 0 bar) / DKD R-6-1 QTCL/CP/M/226	-1 to 0 bar	± 0.33 %
Weighing Scale and Balance				
1	Weighing Balance Digital/Analogue	Using standard weights E1 Class As per OIML-R-76-1 QTCL/CP/M/214	0 to 80 g 0 to 220 g	0.12 mg 0.36 mg

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Mechanical Calibration (At Site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
2	Weighing Balance Digital/Analogue	Using standard weights F1 Class, As per OIML-R-76-1 QTCL/CP/M/214	0 to 2000 g	7 mg
3	Weighing Balance Digital/Analogue	Using standard weights F1 & F2 Class, As per OIML-R-76-1 QTCL/CP/M/214	0 to 6200 g	40 mg
4	Weighing Balance Digital/Analogue	Using standard weights F1 & F2 Class, As per OIML-R-76-1 QTCL/CP/M/214	0 to 20000 g	0.5 g
5	Weighing Balance Digital/Analogue	Using standard weights F1,F2 & M1 Class weights, As per OIML-R-76-1	0 to 150 kg	11 g
Acceleration and Speed				
1	RPM INDICATOR of Centrifuge/Shaker/ Stirrer/Mixer (Non –Contact Type)	Using Tachometer as per SANAS TR-45-01:2008 &SANAS TR-45-02:2017 by Comparison method QTCL/CP/M/234	10 to 1000 rpm 1000 to 15000 rpm 15000 to 30000rpm	0.5% rdg. 0.5% rdg. 0.5% rdg.
Force				
1	Force-Universal Testing Machine (UTM)/ Compression Testing Machine/ Tensile Testing Machine	Using Load cell With Indicator (50 N 1 kN, 5 kN &50 kN) / IS 1828 Part1):2015, QTCL/CP/M/228	5 N to 50 N 50 N to 1000 N 1000 N to 5000 N 5000 N to 50 kN	± 0.50 %

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Optical & Photometry Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Photometry				
1	Luminous Intensity: Lux Meter, Light Meter, Illuminance meter, Chroma meter	Inhouse Calibration Method QTCL/CP/TT/521	30 to 10000 Lux 0	4%

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Thermal Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Temperature				
1	Temperature Indicator of Incubator, Chamber, Temperature Baths, Oil bath, Dry Bath (Single Point)	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/304	(-)40°C to 25°C	0.64°C
2	Temperature Indicator of Oven, Incubator, Chamber, Temperature Baths, Oil bath, Dry Bath Furnace (Single Point)	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/305	25°C to 250°C	0.8°C
3	Temperature Indicator of Temperature Baths, Oil bath, Dry Bath, Muffle Furnace (Single Point)	Using S Type TC with Indicator by Comparison Method QTCL/CP/T/306	250°C to 500°C 500°C to 1190 °C	1.2°C 2.2°C
4	Liquid in Glass Thermometer	Using Class-A RTD With Indicator, by Comparison Method, QTCL/CP/T/310	(-)40°C to 250°C	0.8°C
5	RTD'S, Thermocouple, RTD With Indicator, SPRT with indicator, Thermocouple with Indicator, Digital Thermometer with sensor, Temperature Gauge, Temperature/	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/301	(-)40°C to 25°C	0.8°C

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Thermal Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Data Logger with Sensor/Temperature Scanner with sensor, Temperature Transmitter			
6	RTD'S, Thermocouple, RTD With Indicator, SPRT with indicator, Thermocouple with Indicator, Digital Thermometer with sensor, Temperature Gauge, Temperature/ Data Logger with Sensor/Temperature Scanner with sensor, Temperature Transmitter	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/302	25°C to 250°C	0.8°C
7	RTD'S, Thermocouple, RTD With Indicator, SPRT with indicator, Thermocouple with Indicator, Digital Thermometer with sensor, Temperature Gauge, Temperature/ Data Logger with Sensor/Temperature	Using S Type Thermocouple With indicator by Comparison Method QTCL/CP/T/303	250°C to 500°C 500°C to 1190 °C	1.2°C 2.2°C

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Thermal Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Scanner with sensor, Temperature Transmitter			
Humidity				
1	Thermo-hygrometer, Temperature & Humidity Meter, Humidity Indicator, Humidity Transmitter, Temperature and Humidity Data Logger, Humidity Transmitter with indicator	Using Class-A RTD With Indicator & Humidity Meter by Comparison Method QTCL/CP/T/308	15% RH to 95% RH @ 25°C	1.3% RH
2	Humidity Chamber/Stability Chamber/Light Fastness tester(Single Point)	Using Temperature & RH Meter by Comparison Method QTCL/CP/T/307	20% RH to 95% RH @ 25°C	1.3%RH
3	Thermohygrometer, Temperature & Humidity Meter, Humidity Indicator, Humidity Transmitter,	Using Class-A RTD With Indicator & Humidity Meter by Comparison Method TCL/CP/T/308	0°C to 50°C @ 50% RH	0.54°C

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Thermal Calibration (Laboratory based)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Temperature and Humidity Data Logger, Humidity Transmitter with indicator			
4	Humidity Chamber/Stability Chamber/ Light Fastness tester(Single Point)	Using Temperature & RH Meter by Comparison Method QTCL/CP/T/307	10°C to 70°C @ 50% RH	0.54°C

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Thermal Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
Temperature				
1	Temperature Indicator of Incubator, Chamber, Temperature Baths, Oil bath, Dry Bath (Single Point)	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/304	(-)35°C to 25°C	0.64°C
2	Temperature Indicator of Oven, Incubator, Chamber, Temperature Baths, Oil bath, Dry Bath Furnace (Single Point)	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/305	25°C to 250°C	0.8°C
3	Temperature Indicator of Temperature Baths, Oil bath, Dry Bath, Muffle Furnace (Single Point)	Using S Type TC with Indicator by Comparison Method QTCL/CP/T/306	250°C to 500°C 500°C to 1190 °C	1.2°C 2.2°C
4	RTD'S, Thermocouple, RTD With Indicator, SPRT with indicator, Thermocouple with Indicator, Digital Thermometer with sensor, Temperature	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/301	(-)35°C to 25°C	0.8°C

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Thermal Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Gauge, Temperature/ Data Logger with Sensor/Temperatur e Scanner with sensor, Temperature Transmitter			
5	RTD'S, Thermocouple, RTD With Indicator, SPRT with indicator, Thermocouple with Indicator, Digital Thermometer with sensor, Temperature Gauge, Temperature/ Data Logger with Sensor/Temperature Scanner with sensor, Temperature Transmitter	Using Class-A RTD With Indicator by Comparison Method QTCL/CP/T/302	25°C to 250°C	0.5°C
6	RTD'S, Thermocouple, RTD With Indicator, SPRT with indicator, Thermocouple with Indicator, Digital Thermometer with sensor, Temperature Gauge, Temperature/	Using S Type Thermocouple With indicator by Comparison Method QTCL/CP/T/303	250°C to 500°C 500°C to 1190 °C	1.2°C 2.2°C

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Thermal Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
	Data Logger with Sensor/Temperature Scanner with sensor, Temperature Transmitter			
Humidity				
1	Humidity Chamber/Stability Chamber/ Light Fastness tester(Single Point)	Using Temperature & RH Meter by Comparison Method QTCL/CP/T/307	20% RH to 95% RH @ 25°C	1.3%RH
2	Humidity Chamber/Stability Chamber/Light Fastness tester (Single Point)	Using Temperature & RH Meter by Comparison Method QTCL/CP/T/307	10°C to 70°C @ 50% RH	0.54°C

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Textile, Toys & Leather Machinery Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
1	**Crockmeter / Crocking Tester**			
	Mass	AATCC 8, ISO 105 X 12, AATCC 16, ISO 116, ISO 11640, ISO 20433, BS EN ISO 17700, IS 6191, SATRA TM 167 and QTCL/CP/TT/513	1 g -1100 g	0.9 g
	Linear Dimension		5 mm-110 mm (stroke length)	0.11 mm
			5 mm-20 mm (diameter)	0.11 mm
	Counter meter		10 to 10000 count	2.3 count
	Stroke Speed		1 SPS -12 SPS	0.02 SPS
2	**Martindale Abrasion and Pilling Tester/Din Abrasion/Taber abrasion/Heel Fatigue**			
	Lissajous figure's dimensions	ASTM D4966, D 4970 ISO 12945-2, and QTCL/CP/TT/518	1 mm – 65 mm	0.11 mm
	Mass		10g to 250g	0.9 g
			251g to 3000g	0.9 g
	Linear Dimension		0.5 mm to 10 mm	0.11 mm
			11 mm to 500mm	0.11 mm
	Counter meter		10 to 10000 count	2.3 count
	Rotational Speed		10 RPM-60 RPM	1.6 RPM
3	**Perspirometer/Perspiration Tester**			
	Mass	AATCC 15, 106, 107, ISO E01, E02, E04 ISO 11641, IS 14544, SATRA TM 335 and QTCL/CP/TT/505	100g-5500g	0.9 g
	Linear Dimension of sample plates		0 mm – 120 mm	0.11 mm
4	**Box Pilling Tester/Flexing Tester**			
	Linear Dimension	ISO 12945-1 and QTCL/CP/TT/518	2mm-300mm	0.11 mm
	Counter meter		10 to 10000 count	2.3 count
	Rotational Speed		10 RPM- 70 RPM	1.6 RPM

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Textile, Toys & Leather Machinery Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
5	**Random Tumble Pilling Tester**			
	Linear Dimension	ASTM D3512, ISO 12945-1 BS EN 12945-1, 3, BSEN ISO 12945-1, and QTCL/CP/TT/509	5mm-200mm	0.11 mm
	Rotational Speed		10 RPM-5000 RPM	1.6 RPM
	Counter meter		10 to 10000 count	2.3 count
	Pressure		0 PSI – 15 PSI	0.35 PSI
6	**Launderometer / Washing Fastness Tester/Gyrowash/Durawash**			
	Linear Dimension	AATCC 61, AATCC 132, ISO 105 C06, C08, C10, D01 and QTCL/CP/TT/508	60mm-200mm	0.11 mm
	Rotational Speed		30 RPM-60 RPM	1.6 RPM
	Temperature		25^0 C -100 ^{0} C	0.8°C
	Time		10 sec to 120 min	0.16 sec to 8.6 s
7	**Wascator/Front Loading Washer or washing machine**			
	Linear Dimension	ISO 6330 and QTCL/CP/TT/507	50 mm to 250 mm	0.11 mm
	Rotational Speed		45 RPM- 1000 RPM	1.6 RPM
	Weighing balance		0.1 kg – 20kg	0.10 kg
	Temperature		25 ° C - 95 ˚ C	0.8°C
	Time		10 sec to 120 min	0.16 sec to 8.6 s
8	**Washer/Top Loading Washing Machine**			
	Volume	AATCC LP1 and LP 2, 88 B, 88 C, 124,130, 135, 142, 143, 150, 172, 179, AATCC Monograph M6 and QTCL/CP/TT/507	10 ltrs – 100 liters	1.01 ltr
	Agitation Speed		10 RPM – 200 RPM	1.6 RPM
	Spin Speed		300 RPM – 800 RPM	1.6 RPM
	Temperature		10 ˚ C - 90 °C	0.8° C
	Time		10 sec to 120 min	0.16 sec to 8.6 s
9	**Tumble Dryer**			
	Linear Dimension (Drum)	AATCC 88 B, 88 C, 124, 130,135, 142, 143, 150, 172, 179, ISO 6330, ISO 16322 and QTCL/CP/TT/506	500 mm-700 mm	0.11 mm
	Temperature		25 ˚C - 90 ˚C	0.8° C
	Time		10 sec to 120 min	0.16 sec to 8.6 s

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Textile, Toys & Leather Machinery Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
10	**Flammability Tester/Flexing Tester**			
	Angle	ASTM D 1230, CFR 16 1610, ASTM F963, 16 CFR 1500.44 Cl. 4.2 according to Annex A5), ISO 8124-2, IS 9873-2 and QTCL/CP/TT/500/12	1^0- 50^0	0.26^0
	Linear Dimension		5mm-400mm	0.11 mm
	Mass		10 g to 50 g	0.04 g
	Time		10 sec to 120 min	0.16 sec to 8.6 s
11	**Pneumatic Bursting Tester/Hydraulic Bursting tester**			
	Linear Dimension (Distension)	ASTM D 3786, ISO 13938-1, ISO 13938-2 and QTCL/CP/TT/511	0 mm to 30 mm	0.11 mm
	Linear Dimension (Diameter)		40 mm to 80 mm	0.11 mm
			25 mm to 115 mm	0.11 mm
	Pressure		100 kPa – 7000 kPa	1.84 kPa
12.	**Elmendorf Tear Strength Tester**			
	Mass	ISO 13937-1, ASTM 1424 and QTCL/CP/TT/500/14	400 g to 7500 g	0.49g
	Linear Dimension		2 mm – 110 mm	0.11 mm
13.	**Twist Tester/Beesley balance/Yarn crimp tester/Stretch & recovery Tester**			
	Mass	Using dig. Weighing balance by direct method. ASTM D1059 and QTCL/CP/TT/505	1g to 1000 g 118 mg 1000 g to 5100 g	4 mg 0.8 mg 0.9 g
14.	**Light Box/Pilling Assessment Viewer/ Viewing Board/ Holoscope**			
	Illumination level	Using Dig. Lux meter by direct Method, AATCC EP-1 & 2, EP 9 88 B, 88 C, ISO 105 A01, A02, QTCL/CP/TT/516	10 lux to 5000 lux	4%

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Textile, Toys & Leather Machinery Calibration (At site)

S. No.	Parameter	Calibration Method/ Procedure & Equipment used as Reference Standard	Range	Uncertainty in Measurement (±) *
15.	**Wrap Reel Tester Circumference of the circle**			
	Linear Dimension (Diameter)	Digital Caliper& Counter calibrator ASTM D1059, QTCL/CP/TT/502	0 to 1500 mm	0.11 mm
	Counter meter		10 to 10000 count	2.3 count
16.	**Spray rating Tester**			
	Angle	Digital Caliper /Angle Protractor, Balance and Distilled water QTCL/CP/TT/503 AATCC 22, AATCC 79, BSEN ISO 24920, GB/T 4745	10° to 90°	0.26°
	Linear Dimension		2 mm – 200 mm	0.1mm
	Time		1 sec - 60 sec	0.16 sec

*** Expanded uncertainty expressed in coverage probability of approximately 95% (coverage factor K=2)**

Dealing Officer