

Laboratory Eco Green Labs India Private Limited, Ground Floor, Plot No. 100,
New Sidco Industrial Estate, Srinagar, Hosur, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 1 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	DC Voltage [#]	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.00503 mV to 0.011 mV 0.011 mV to 0.0059 V 0.0059 V to 0.0014 V 0.0014 V to 0.00703 V 0.00703 V to 0.066 V	Using Fluke 5500A Multi-Product Calibrator by Direct Method
2.	DC Current [#]	1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 550 A	0.00021 mA to 0.0192 mA 0.0192 mA to 0.00058 A 0.00058 A to 0.00732 A 0.00732 A to 1.932 A	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method
3.	AC Voltage [#]	50 Hz to 1 kHz 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.0272 mV to 0.0416 mV 0.0416 mV to 0.1007 mV 0.1007 mV to 0.00044 V 0.00044 V to 0.0055 V 0.0055 V to 0.0678 V 0.0678 V to 0.6827 V	Using Fluke 5500A Multi-Product Calibrator by Direct Method
4.	AC Current [#]	50 Hz to 1 kHz 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A 10 A to 550 A	0.0018 mA to 0.142 mA 0.142 mA to 0.00154 A 0.00154 A to 0.0406 A 0.0406 A to 2.011 A	Using Fluke 5500A Multi-Product Calibrator & Current Coil by Direct Method
5.	Frequency [#]	10 Hz to 100 kHz	0.0057 Hz to 0.0029 kHz	Using Fluke 5500A Multi-Product Calibrator by Direct Method
6.	Resistance [#]	1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω	0.0139 Ω to 0.0124 Ω 0.0124 Ω to 0.028 Ω 0.028 Ω to 0.0694 k Ω	Using Fluke 5500A Multi-Product Calibrator by Direct Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 2 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

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		1 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 100 M Ω	0.0694 k Ω to 0.0197 k Ω 0.0197 k Ω to 0.00024 M Ω 0.00024 M Ω to 0.587 M Ω	
7.	Capacitance [#]	1 kHz 1 nF to 10 nF 10 nF to 330 nF 330 nF to 1 μ F	0.01738 nF to 0.21 nF 0.21 nF to 2.28 nF 2.28 nF to 0.0047 μ F	Using Fluke 5500A Multi-Product Calibrator by Direct Method
8.	Temperature Simulation [#]			
	Thermocouple			
	J- Type	(-) 200 $^{\circ}$ C to 750 $^{\circ}$ C	0.25 $^{\circ}$ C to 0.22 $^{\circ}$ C	Using Fluke 5500A Multi-Product Calibrator by Direct Method
	K- Type	(-)190 $^{\circ}$ C to 1300 $^{\circ}$ C	0.30 $^{\circ}$ C to 0.36 $^{\circ}$ C	
	R- Type	100 $^{\circ}$ C to 1700 $^{\circ}$ C	0.37 $^{\circ}$ C to 0.37 $^{\circ}$ C	
	S- Type	100 $^{\circ}$ C to 1700 $^{\circ}$ C	0.41 $^{\circ}$ C to 0.41 $^{\circ}$ C	
	N- Type	(-) 190 $^{\circ}$ C to 1300 $^{\circ}$ C	0.31 $^{\circ}$ C to 0.36 $^{\circ}$ C	
9.	Temperature Simulation [#] (Resistance Temperature Detector)			
	Pt-100	(-) 190 $^{\circ}$ C to 800 $^{\circ}$ C	0.09 $^{\circ}$ C to 0.25 $^{\circ}$ C	Using Fluke 5500A Multi-Product Calibrator by Direct Method
II.	MEASURE			
1.	DC Voltage [#]	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.00012 mV to 0.009 mV 0.009 mV to 0.00003V 0.00003 V to 0.00026 V 0.00026 V to 0.00256 V 0.00256 V to 0.053 V	Using 7 1/2 Digit Multimeter 34470A by Direct Method
2.	DC Current [#]	1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.0007 mA to 0.0083 mA 0.0083 mA to 0.0666 mA 0.0666 mA to 0.0011 A 0.0011 A to 0.015 A	Using 7 1/2 Digit Multimeter 34470A by Direct Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 3 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

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3.	AC Voltage [#]	50 Hz to 1 kHz 10 mV to 100 mV 100 mV to 1 V 1 V to 100 V 100 V to 750 V	0.0244 mV to 0.107 mV 0.107 mV to 0.00082 V 0.00082 V to 0.0822 V 0.0822 V to 0.625 V	Using 7½ Digit Multimeter 34470A by Direct Method
4.	AC Current [#]	50 Hz to 1 kHz 1 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.00169 mA to 0.269 mA 0.269 mA to 0.0032 A 0.0032 A to 0.0025 A	Using 7½ Digit Multimeter 34470A by Direct Method
5.	Frequency [#]	10 Hz to 100 Hz 100 Hz to 100 kHz 100 kHz to 300 kHz	0.0099 Hz to 0.035 Hz 0.035 Hz to 0.067 kHz 0.067 kHz to 0.1189 kHz	Using 7½ Digit Multimeter 34470A by Direct Method
6.	Resistance [#]	1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 100 M Ω	0.00060 Ω to 0.0013 Ω 0.0013 Ω to 0.012 Ω 0.012 Ω to 0.00006 k Ω 0.00006 k Ω to 0.0061 k Ω 0.0061 k Ω to 0.0001 M Ω 0.0001 M Ω to 0.380 M Ω	Using 7½ Digit Multimeter 34470A by Direct Method
7.	Temperature Simulation [#]			
	Thermocouple J- Type K- Type R- Type S- Type N- Type	(-) 200 °C to 750 °C (-) 190 °C to 1300 °C 100 °C to 1700 °C 100 °C to 1700 °C (-) 190 °C to 1300 °C	0.24 °C to 0.22 °C 0.30 °C to 0.36 °C 0.36 °C to 0.36 °C 0.40 °C to 0.40 °C 0.30 °C to 0.36 °C	Using Fluke 5500A Multi-Product Calibrator by Direct Method
	PT 100	(-) 200 °C to 800 °C	0.09 °C to 0.25 °C	Using 7 ½ Digit Multimeter 34470A by Direct Method
8.	Digital Timer [#]	1 s to 10000 s	0.21 s to 6.24 s	Using Digital timer CT6S-2P by Comparison Method

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 4 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

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<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Plain Plug Gauge [§]	\varnothing 2 mm to \varnothing 100 mm > \varnothing 100 mm to 300 mm	1.1 μ m 2.4 μ m	Using Universal Length Measuring Machine by Comparison method
2.	Plain / Setting/ Master Ring Gauge [§]	\varnothing 2 mm to \varnothing 100 mm > \varnothing 100 mm to 300 mm	1.7 μ m 2.9 μ m	Using Universal Length Measuring Machine by Comparison method
3.	Thread Plug Gauge [§] (Pitch Diameter Only)	3 mm to 100 mm > \varnothing 100 mm to 200 mm	1.6 μ m 2.5 μ m	Using Universal Length Measuring Machine by Comparison method
4.	Snap Gauge [§]	2 mm to 100 mm > 100 mm to 200 mm	1.7 μ m 2.5 μ m	Using Universal Length Measuring Machine by Comparison method
5.	Plunger Dial Gauge [§]	0 to 25 mm / 0.001 mm	1.2 μ m	Using Universal Length Measuring Machine by Comparison method
6.	External Micrometer [§]	0 to 100 mm/0.001 mm 100 mm to 600 mm/ 0.001 mm	2.7 μ m 4.9 μ m	Using Slip Gauges by Comparison method
7.	Vernier Calipers [§]	0 to 600 mm/0.01 mm 0 to 1000 mm/0.01 mm	16.0 μ m 15.9 μ m	Using Slip Gauge, Caliper Checker by Comparison method

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 5 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
8.	Height Gauge [§]	0 to 1000 mm/ 0.01 mm	9.7 μ m	Using Slip Gauge, Caliper Checker by Comparison method
9.	Radius Gauge [§]	1 mm to 25 mm	9.0 μ m	Using Profile Projector by Comparison method
10.	Screw Pitch Gauge [§]	0.25 mm to 6 mm	7.0 μ m	Using Profile Projector by Comparison method
11.	Feeler Gauge [§]	0.05 mm to 2 mm	3.0 μ m	Using Digital Micrometer by Comparison method
12.	Sieves [§]	32 μ m to 10 mm	4.91 μ m	Using Profile Projector by Comparison method
13.	Bore Gauge [§] (Transmission Only)	0 to 2 mm / 0.001 mm	1.12 μ m	Using ULM by Comparison method
14.	Lever Dial Gauge [§]	0 to 0.14 mm/0.001 mm	1.2 μ m	Using Universal Length Measuring Machine by Comparison method
		0 to 1.0 mm/0.01 mm	5.9 μ m	
15.	Dial Thickness Gauge [§]	0 to 10 mm/0.001 mm	0.80 μ m	Using Slip Gauge by Comparison method
16.	Pistol Caliper [§]	0 to 100 mm/0.1 mm	57.89 μ m	Using Slip Gauge by Comparison method
17.	Depth Vernier [§]	0 to 300 mm / 0.01 mm	9.1 μ m	Using Depth Micro Checker by Comparison method
		0 to 600 mm / 0.02 mm	14.9 μ m	
18.	Depth Micrometer [§]	0 to 300 mm/0.01 mm	8.87 μ m	Using Depth Micro Checker by Comparison method

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 6 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
19.	Micrometer Head [§]	0 to 100 mm/0.002 mm	4.44 μ m	Using Slip Gauge by Comparison method
20.	Micro Meter Setting Rod [§]	25 mm to 600 mm	4.80 μ m	Using Slip Gauge, ULM by Comparison method
21.	Comparator Stand [§]	300 mm x 300 mm	5.6 μ m	Using Lever Dial by Comparison method
22.	Measuring Foils [§]	5 μ m to 2 mm	1.1 μ m	Using Universal Length Measuring Machine by Comparison method
23.	Measuring Pin/ Thread Measuring Wire [§] (Grade: 1 & Coarser)	0.17 mm to 20 mm	1.1 μ m	Using Universal Length Measuring Machine by Comparison method
24.	Thread Ring Gauge [§] (Pitch Diameter Only)	\varnothing 14 mm to \varnothing 100 mm	1.62 μ m	Using Universal Length Measuring Machine by Comparison method
25.	Millimess Dial Indicator [§]	0 to (\pm) 25 μ m/ 0.0005 mm	1.10 μ m	Using Universal Length Measuring Machine by Comparison method
26.	Width Gauge [§]	1 mm to 25 mm	3.0 μ m	Using Digital Micrometer by Comparison method
27.	Groove Dial Gauges [§] L.C.: 0.01 mm	12.5 mm to 150 mm	8.6 μ m	Using Slip Gauges, Long Slip Gauges & Slip Gauge Accessories by Comparison method

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 7 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
28.	Ultrasonic Thickness Gauge [§] L.C.: 0.01 mm	5 mm to 100 mm	9.5 μ m	Using Slip Gauges by Comparison method
29.	Coating Thickness Meter/Gauge [§] L.C.: 0.1 μ m	9 μ m to 1 mm	3.8 μ m	Using Master Thickness Foils by Comparison method
30.	'V' Block [§] Flatness Parallelism Symmetry	L x W x H= (200 mm x 125 mm x 150 mm)	5.7 μ m 5.7 μ m 5.7 μ m	Using Lever Dial Gauge, Straight Mandrel, Surface plate by Comparison method
31.	Steel Scale [§] L.C.: 1 mm	0 to 1000 mm	0.36 mm / m	Using Tape and Scale Calibrator
32.	Tape /Steel Scale [§] L.C.: 1 mm	1 m to 30 m	0.6 mm/m	Using Tape and Scale Calibrator by Comparison method
33.	Internal Micrometer/ Stick Micrometer [§] L.C.: 0.01 mm	13.5 mm to 600 mm	7.5 μ m	Using Universal Length Measuring System. Long Slip Gauges by Comparison method
34.	Surface Plate*	2500 mm x 2000 mm	$4.2 \times \sqrt{\frac{(W + L)}{200}} \mu\text{m}$ (L & W in mm)	Using Precession Spirit Level by Comparison method

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 8 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

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II. DIMENSION (PRECISION INSTRUMENTS)				
1.	Length Measuring Machine / ULM # L.C.: 0.0001 mm	0 to 100 mm 100 mm to 500 mm	0.58 μ m 3.6 μ m	Using Slip Gauge Block Set, Long Slip Gauge Block by Comparison Method by Comparison method
2.	Slip Gauge ^s (Grade-O)	0.5 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm	0.10 μ m 0.13 μ m 0.20 μ m	Using Gauge Block Calibrator, Gauge Block Set, Long Slip by Comparison method
3.	Long Slip Gauge ^s	100 to 500 mm	2.8 μ m	Using Universal Length Measuring Machine & long Gauge Block Set by Comparison method
4.	Electronic Height Gauge [#] L.C.: 0.0001 mm	0 to 600 mm	6.0 μ m	Using Length Bar & Gauge Block by Comparison method
III. PRESSURE INDICATING SERVICES				
1.	Hydraulic Pressure-Pressure Gauge (Dial/Digital Pressure Calibrator / Pressure Transducers/Pressure Transmitter) ^s	10 bar to 35 bar 35 bar to 1000 bar	0.11 % rdg 0.028 % rdg	Using Dead Weight Tester & DMM as Read Unit for Transmitter as per Based on DKD-R6-1
2.	Hydraulic Pressure-Pressure Gauge (Dial/Digital Pressure Calibrator / Pressure Transducers/Pressure Transmitter) #	0 bar to 1000 bar	0.065 % rdg	Using Digital Pressure Calibrator using hydraulic Comparator & DMM as read unit for transmitter as per Based on DKD-R6-1

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 &
C-1402)

Page 9 of 14

Validity 30.05.2018 to 29.05.2020

Last Amended on -

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3.	Pneumatic Pressure- Pressure Gauge (Dial/ Digital / Transducer / Transmitter & Pressure Switches) #	0 to 20 bar	0.011 bar	Using Digital Pressure Calibrator & DMM as Read Unit for Transmitter as per Based on DKD-R6-1
4.	Vacuum Gauge- (Dial/ Digital / Transducers / Transmitter) #	0 to (-) 0.80 bar	0.0064 bar	Using Digital Vacuum Calibrator & DMM as Read Unit for Transmitter as per Based on DKD-R6-1 Using Built in Pneumatic/Vacuum Pressure Pump
IV.	ACOUSTICS			
1.	Sound Level Meter §	1 kHz 94 dB & 114 dB	0.37 dB	Using Sound Level Calibrator by Direct Method
V.	HARDNESS TESTING MACHINES			
1.	Rubber Hardness Tester for Spring Force Calibration§	Shore A/Shore D	1.84 Shore A / Shore D	Using Rubber Hardness Tester Calibrator as per Based on ASTM D2240-15

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2688 (in lieu of C-1062, C-1063 &
C-1402)

Page 10 of 14

Validity 30.05.2018 to 29.05.2020

Last Amended on -

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VI.	TORQUE GENERATING DEVICES			
1.	Torque Wrench [§] Type: 1 (Class B & C) Type: 2 (Class A & B)	2 Nm to 20 Nm 20 Nm to 80 Nm 80 Nm to 400 Nm 400 Nm to 2000 Nm	0.46 % rdg 1.08 % rdg 1.08 % rdg 2.28 % rdg	Using Torque Sensors with Indicator as per Based on IS/ISO 6789 : 2003
VII.	WEIGHTS			
1.	Standard Weights (F1 Class & Coarser) [§]	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 100 g 200 g	0.003 mg 0.003 mg 0.004 mg 0.004 mg 0.004 mg 0.005 mg 0.005 mg 0.005 mg 0.007 mg 0.010 mg 0.011 mg 0.014 mg 0.017 mg 0.03 mg 0.03 mg 0.04 mg 0.17 mg 0.21 mg	Using E2 Class Standard Weights 1 mg - 200 g & Electronic Balances d=0.001 mg by as per OIML R111-1:2004
2.	Standard Weights (F2 Class & Coarser) [§]	500 g 1 kg	0.002 g 0.003 g	Using F1 Class Standard Weights 500 g to 1 kg & Weighing Balance d=0.1mg by as per OIML R- 111-1: 2004

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2688 (in lieu of C-1062, C-1063 &
C-1402)

Page 11 of 14

Validity 30.05.2018 to 29.05.2020

Last Amended on -

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		2 kg 5 kg	0.01 g 0.02 g	Using F1 Class Standard Weights 2 kg to 5 kg & Weighing Balance d=10 mg
		10 kg 20 kg	0.1 g 0.2 g	Using F1 Class Standard Weights 10 kg to 20 kg & Weighing Balance d=0.1 g by as per OIML R- 111-1:2004
VIII.	WEIGHING SCALE AND BALANCE			
1.	Electronic Weighing Balance# d : 0.001 mg d : 0.01 mg d : 0.1 mg	Upto 5 g Upto 100 g Upto 220 g	0.026 mg 0.08 mg 0.15 mg	Using E2 class& F1 Class Standard Weights 1 mg -200 g & as per OIML R-76:2006
	d : 1 mg d : 10 mg d : 0.1 g	Upto 1000 g Upto 5200 g Upto 30 kg	0.002 g 0.02 g 0.3 g	Using F1 class Standard Weights 500 g to 20 kg & Calibration of Weighing Balances as per OIML R-76
	d : 1g d : 10g	Upto 100 kg Upto 300 kg	6 g 14 g	Using E2 class& F1 Class Standard Weights 20 kg & Calibration of Weighing Balances as per OIML R-76:2006

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 &
C-1402)

Page 12 of 14

Validity 30.05.2018 to 29.05.2020

Last Amended on -

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IX.	VOLUME			
1.	Micro Pipettes [§] d : 0.001 mg d : 0.01 mg	1 μ l to 100 μ l 100 μ l to 1000 μ l 1000 μ l to 10000 μ l	0.021 μ l 0.324 μ l 2.00 μ l	Using Weighing Balance with and Distilled water as per ISO 8655-6
2.	Burette/Pipettes [§] d : 0.01 mg	0.1 ml to 1 ml 0.1 ml to 2 ml 0.1 ml to 5 ml 0.1 ml to 10 ml 0.1 ml to 25 ml 0.1 ml to 50 ml	0.002 ml 0.003 ml 0.004 ml 0.005 ml 0.005 ml 0.018 ml	Using Weighing Balance with Distilled Water and Standard weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010
3.	Volumetric Flask [§]	Upto 10 ml Upto 10 ml Upto 25 ml Upto 50 ml Upto 100 ml Upto 250 ml Upto 500 ml Upto 1000 ml Upto 2000 ml	0.008 ml 0.008 ml 0.008 ml 0.009 ml 0.018 ml 0.030 ml 0.07 ml 0.17 ml 0.31 ml	Using Weighing Balance with Distilled Water and Standard weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010
4.	Measuring Cylinder/ Measuring Jar/Cane [§]	Upto 10 ml Upto 25 ml Upto 50 ml Upto 100 ml Upto 250 ml Upto 500 ml Upto 1000 ml	0.005 ml 0.018 ml 0.017 ml 0.03 ml 0.04 ml 0.07 ml 0.25 ml	Using Weighing Balance with Distilled Water and Standard weights & Calibration of Glassware based on Gravimetric method as per ISO 4787:2010

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 13 of 14

Validity 30.05.2018 to 29.05.2020 **Last Amended on** -

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	Thermocouples, RTDs, Temperature Controller With Sensors, Temperature Indicators With Sensors, Data Logger With Sensor, Temperature Recorder With Sensors, Temperature Gauges [#]	(-) 25 °C to 150 °C >150 °C to 300 °C >300 °C to 600 °C > 600 °C to 1200 °C	0.18 °C 0.49 °C 1.78 °C 2.77 °C	Using PRT, Thermocouples, Temperature Calibrator, Dry Block Calibrators & Temperature Baths Documenting Process Calibrator by Comparison Method
2.	Temperature Baths, Dry Block Calibrators, Oil Baths [#]	(-) 25 °C to 600 °C > 600 °C to 1200 °C	0.45 °C 2.9 °C	Using RTD, Thermocouples & Temperature Calibrator Documenting Process Calibrator by Comparison Method
3.	Glass Thermometer ^{\$}	(-) 10 °C to 110°C >110 °C to 300°C	0.51°C 1.37 °C	Using RTD, Multi Function Calibrator and Oil Bath by Comparison Method
4.	Indicator of Incubators, Ovens, Freezer, Furnace, Refrigerator, Fluid Bath & Autoclave*	(-) 25 °C to 600 °C > 600 °C to 1200 °C	0.42 °C 2.64 °C	Using RTD, Thermocouples & Temperature Calibrator Documenting Process Calibrator by Comparison Method

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Certificate Number CC-2688 (in lieu of C-1062, C-1063 & C-1402) **Page** 14 of 14

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				(Temperature Single Point)
5.	Ovens, Freezer, Environmental Chamber, Furnace *	(-) 25 °C to 300 °C > 300 °C to 600 °C > 600 °C to 1200 °C	1.30 °C 3.36 °C 4.28 °C	Using Thermocouples & Digital Data Loggers Documenting Process Calibrator by Comparison Method (Temperature Multi Point)
II.	SPECIFIC HEAT & HUMIDITY			
1.	Thermo/Hygro Meter [§]	10 °C to 60 °C 20 % to 100 % Rh	0.89 °C 3.72 % Rh	Using RTD, Thermocouple & Multi Function Calibrator by Comparison Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

[§]Only in Permanent Laboratory

^{*}Only for Site Calibration

[#]The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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