Laboratory	**Bhoomi Calibration Services, Dudhrej-Vana Road, Dudhrej, Surendranagar, Gujarat**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**CC-2605** **Page 1 of 4**
Validity	**16.03.2018 to 15.03.2020** **Last Amended on -**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Vernier Caliper[$] (Dial/ Electronic) L.C.: 0.01 mm	0 to 300 mm	19 μm	Using Caliper Checker
2.	External Micrometer [$] L.C.: 0.001 mm	0 to 25 mm	2 μm	Using Slip Gauge Set
3.	Plunger Dial Gauge[$] L.C.: 0.01 mm	0 to 25 mm	4.9 μm	Using Dial Calibration Tester
4.	Test Sieves[$]	0.045 mm to 3.35 mm 3.35 mm to 120 mm	9.6 μm 35 μm	Using Profile Projector Using Digital Caliper
II.	**ACCELERATION AND SPEED**			
1.	Tachometer/ RPM Meter[$] (Non Contact)	100 rpm to 38900 rpm	0.54 % to 0.57 %	Using Digital Tachometer by Comparison Method
III.	**UTM, TENSION CREEP AND TORSION TESTING MACHINE**			
1.	Compression Testing Machine / UTM in Compression Mode[♣]	10 kN to 2000 kN	0.65 %	Using Proving Rings of Accuracy Class 0.5 & Class 1 as per IS 1828 Part 1

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Convenor

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Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
IV.	**WEIGHING SCALE AND BALANCE**			
1.	Electronic Weighing Balance[♣] Weighing Balance of Accuracy Class I and Coarser Readability: 0.1 mg Weighing Balance of Accuracy Class II and Coarser Readability: 1 mg Readability: 100 mg Readability: 1 g Readability: 5 g	 Up to 200 g Up to 1 kg Up to 10 kg Up to 30 kg Up to 50 kg	 1 mg 2 mg 0.65 g 2 g 12 g	Using F1 Class Weights
V.	**VOLUME**			
1.	Glassware[$] (Burette, Pipette, Flask, Measuring Cylinders)	1 mg to 50 ml	0.006 ml	Using Weighing Balance of 0.1mg Readability & 120g Capacity by Gravimetric Method Based on ISO 4787
		> 50 ml to 600 ml	0.2 ml	Using Weighing Balance of 1mg Readability & 1000g Capacity by Gravimetric Method Based on ISO 4787

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		> 600 ml to 1000 ml	0.21 ml	Using Weighing Balance of 100mg Readability & 3000g Capacity By Gravimetric Method Based on ISO 4787

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	THERMAL CALIBRATION			
I.	**TEMPERATURE**			
1.	Temperature indicator with Sensor, Digital Thermometer[$]	(-) 15 ºC to 110 ºC 110 ºC to 250 ºC	0.44 ºC 0.46 ºC	Using Temperature Indicator with RTD, Dry Block Calibrator by Comparison Method
2.	Liquid in Glass Thermometer[$]	50 ºC to 250 ºC	0.48 ºC	Using Oil Bath, Temperature Indicator with RTD by Comparison Method
3.	Temperature Indicator with Sensor of Bath, Indicator, Oven, Furnace[♣]	(-) 15 ºC to 50 ºC 50 ºC to 250 ºC 250 ºC to 400 ºC	0.33 ºC 0.5 ºC 2.32 ºC	Using Temperature Indicator with RTD Probe (Single Position Calibration)
II.	**SPECIFIC HEAT & HUMIDITY**			
1.	Humidity/ Temperature Indicator with Sensor of Environmental Chamber[♣]	30% RH to 90% RH @ ~ 25 ºC 20 ºC to 50 ºC @ ~ 50 %RH	1.95 % RH 0.65 ºC	Using Digital Temperature/ Humidity Indicator with Sensor (Single Position Calibration)

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]Only in Permanent Laboratory
[♣]Only for Site Calibration

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Convenor

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