

Laboratory Sam Calibration Lab, 348/349, Heena Arcade, Char Rasta, Silvassa Road, Vapi, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2791

Page 1 of 4

Validity 06.08.2018 to 05.08.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Vernier caliper ^s (Dial/Digital) L.C.0.01 mm	0 to 300 mm	9.52 μ m	Using Caliper Checker by Comparison Method
2.	Height Gauge ^s (Dial/Digital) L.C.0.01 mm	0 to 300 mm	10.83 μ m	Using Caliper Checker & Surface Plate by Comparison Method
3.	External Micrometer's ^s L.C.0.001 mm	0 to 150 mm & 0 to 300 mm	4.25 μ m 8.97 μ m	Using Slip Gauges by Comparison Method
4.	Micrometer Setting Standard's ^s	25 mm to125 mm 25 mm to275 mm	6.71 μ m & 9.63 μ m	Using Steel Gauges , comparator Stand, Digital Dial by Comparison Method
5.	Dial Thickness gauge ^s L.C.0.001 mm	0 to12 mm 0 to25 mm	1.0 μ m 5.68 μ m	Using Slip Gauges by Comparison Method
6.	Plunger Dial Gauge ^s L.C.0.001 mm	0 to12 mm 0 to25 mm	2.56 μ m 3.70 μ m	Using Dial Calibration Tester by Comparison Method

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Convenor

Avijit Das
Program Manager

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Page 2 of 4

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7.	Lever Type Dial Indicator ^s L.C.0.001 mm	Up to 1 mm	1.68 μ m	Using Dial Calibration Tester by Comparison Method
8.	Bore Gauge ^s (Mechanism Travel only) L.C.0.001 mm	Up to 2 mm	1.60 μ m	Using Dial Calibration Tester by Using Comparison Method
9.	Feller gauge ^s	0.03 mm to 1 mm	5.26 μ m	Using Digital Dial , Comparator stand by Comparison Method
10	Inside Micrometer ^s L.C.0.001 mm	50 mm to 300 mm	10.17 μ m	Using Steel Slip Gauges , Comparator Stand, Digital Dial by Comparison Method
11.	Depth Vernier Caliper ^s (Dial/Digital) L.C.0.01 mm	0 to 300 mm	11.05 μ m	Using Steel Caliper Checker, Slip Gauges, surface Plate by Comparison Method

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Page 3 of 4

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II.	PRESSURE INDICATING DEVICES			
1.	Pressure-Pneumatic [#] (Dial, Digital Pressure Gauges/ Indicators)	0 bar to 40 bar	0.31 bar	Using Pneumatic Pump & Digital Pressure Gauge by DKD-R6-1 Comparison Method
2.	Pressure- Hydraulic [#] (Dial, Digital Pressure Gauges/ Indicators)	0 bar to 400 bar	4 bar	Using Hydraulic Pump & Digital Pressure Gauge based on DKD-R6-1
3.	Vacuum - Hydraulic [#] (Dial, Digital Vacuum Gauges/ Indicators)	(-)0.9 bar to 0 bar	32.86 mbar	Using Hydraulic Pump & Digital Pressure Gauge based on DKD-R6-1

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD, Thermocouple With & Without Controller, Temperature Gauge, Thermometer [#] (Digital)	25 °C to 250 °C 250 °C to 600 °C	1.7°C 2.78°C	Using RTD Sensor & 6 ½ Digit DMM in Dry Block Bath by Comparison Method Using S-Type Thermocouple & 6 ½ Digit DMM in Dry Block Bath by Comparison Method
2.	Oven, Bath, Freezer, Autoclave, Incubator, Environment Chamber, Furnaces etc *	(-)10 °C to 250 °C 250 °C to 600 °C	2.4°C 3.3°C	Using T-Type Sensor & 6 ½ Digit DMM by Single Position Calibration at Measuring location in DUC Using S Type Sensor & 6 ½ Digit DMM by Single Position Calibration at Measuring location in DUC

* 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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