

**Laboratory** Shivam Calibration & Services, Shop No. 1/A/1, Varniraj Society,  
Nikol-Naroda Road, Nikol, Ahmedabad, Gujarat

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** CC-2461

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**Validity** 30.05.2018 to 29.05.2020

**Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
<b>1.</b>	External Micrometer <sup>§</sup> L.C.: 0.001 mm	0 to 25 mm	1.7 $\mu$ m	Using Steel Gauge Block Set and Optical Flat by Comparison Method
	L.C.: 0.001 mm	0 to 150 mm	4.5 $\mu$ m	Using Steel Gauge Block Set by Comparison Method
	L.C.: 0.01 mm	150 mm to 300 mm	9.4 $\mu$ m	Using Steel Gauge Block Set & Length Bar by Comparison Method
<b>2.</b>	Caliper <sup>§</sup> (Vernier/ Dial/Electronic) L.C.: 0.01 mm	0 to 300 mm	11.5 $\mu$ m	Using Steel Gauge Block Set and Caliper Checker by Comparison Method
	Caliper <sup>§</sup> (Vernier) L.C.: 0.01 mm	0 to 600 mm	20 $\mu$ m	Using Steel Gauge Block Set, Steel Length Bar by Comparison Method
<b>3.</b>	Depth Gauge <sup>§</sup> (Vernier) L.C.: 0.02 mm	0 to 300 mm	21.6 $\mu$ m	Using Steel Gauge Block Set, Steel Length Bar, Caliper Checker and Surface Plate by Comparison Method

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Convenor

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4.	Height Gauge <sup>§</sup> L.C.: 0.01 mm	0 to 600 mm	20 $\mu$ m	Using Steel Gauge Block Set, Steel Length Bar and Surface Plate by Comparison Method
5.	Depth Micrometer <sup>§</sup> L.C.: 0.01 mm	0 to 300 mm	10 $\mu$ m	Using Steel Gauge Block Set, Steel Length Bar, Caliper Checker and Surface Plate
6.	Dial Thickness Gauge <sup>§</sup> L.C.: 0.01 mm	0 to 10 mm	7.0 $\mu$ m	Using Gauge Block set
7.	Feeler Gauge <sup>§</sup>	0.04 mm to 1 mm	4.8 $\mu$ m	Using Digital Micrometer by Comparison Method
8.	Test Sieve <sup>§</sup>	2 mm to 100 mm	52.0 $\mu$ m	Using Digital Vernier Caliper by Comparison Method
9.	Plunger Dial Indicator <sup>§</sup> L.C. 0.001 mm	0 to 25 mm	3.2 $\mu$ m	Using Dial Calibration Tester by comparison Method
10.	Lever Dial Indicator <sup>§</sup> L.C. 0.001 mm	0 to 1 mm	3.2 $\mu$ m	Using Dial Calibration Tester by comparison Method

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11.	Bore Gauge With Dial Indicator <sup>s</sup> (Transmission) L.C. 0.01 mm	1 mm	3.3 $\mu$ m	Using Dial Calibration Tester by comparison Method
12.	Pistol Caliper <sup>s</sup> L.C. 0.1 mm	0 to 80 mm	79 $\mu$ m	Using Slip Gauge set by Comparison Method
<b>II.</b>	<b>FORCE PROVING INSTRUMENTS</b>			
1.	Static Uniaxial Testing Machine* -Tension	0.5 kN to 50.0 kN	0.40 %	Using Proving ring of accuracy class 0.5 & 1 by Comparison Method as per IS 1828/ ISO 7500
	-Compression	50 kN to 500 kN	0.78 %	Using Load cell with indicator of accuracy class 0.5 by Comparison Method as per IS 1828/ ISO 7500
<b>III.</b>	<b>PRESSURE INDICATING DEVICES</b>			
1.	Hydraulic Pressure Pressure Gauges, Pressure Transducers/ Transmitter <sup>#</sup>	0 to 70 bar 0 to 700 bar	0.33 bar 0.47 bar	Using Digital Pressure Gauge by Comparison Method as per DKD-R 6-1

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<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
1.	RTD/ Thermocouple Sensor With & Without Indicators, Temperature Gauge, Data Loggers With Sensor <sup>#</sup>	50 °C to 400 °C	0.8 °C	Using 4-Wire RTD & MF Calibrator With Dry Block Calibrator by Comparison Method
2.	Thermocouple Sensor With & Without Indicators, Data Loggers With Sensor <sup>#</sup>	400 °C to 1200 °C	3.3 °C	Using 'S'-Type T/C & MF Calibrator with Dry block by Comparison Method
3.	Temperature Indicators With Sensor Of Oven, Water Bath *	50 °C to 400 °C	0.8 °C	Using 4-Wire RTD & MF Calibrator With Dry Block Calibrator by Comparison Method at Single Point Calibration
4.	Temperature Indicators With Sensor Muffle Furnace *	400 °C to 1200 °C	3.3 °C	Using 'S'-Type T/C & MF Calibrator with Dry block by Comparison Method at Single Point Calibration

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
5.	Furnace*	250 °C to 1150 °C	9.0 °C	Using 'K'-Type T/C with data Logger by Comparison Method ( Multi-Point Calibration)

\* 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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