

Laboratory National Calibration Center, E-215, E-217, Udhna Udhyanagar
Sangh, RD. No. 10, Udhna, Surat, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2161

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Validity 12.08.2018 to 11.08.2020

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 ^{\$} L.C.: 0.01 mm L.C.: 0.02 mm	Upto 300 mm Upto 600 mm Upto 1000 mm	10.8 μ m 25.3 μ m 26.3 μ m	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories as per IS 3651
2.	Depth Vernier Caliper ^{\$} L.C.: 0.01mm	Upto 300 mm	13.7 μ m	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories as per IS 4213
3.	Digital Height Gauge ^{\$} L.C.: 0.01 mm	Upto 600 mm > Upto 1000 mm	19.1 μ m 19.9 μ m	Using Slip Gauge, Long Slip Gauge, Surface Plate as per IS 2921
4.	Outside Micrometer ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	0 to 25 mm Upto 100 mm Upto 300 mm 300 mm to 600 mm 600 mm to 1000 mm	1.9 μ m 5.1 μ m 9.1 μ m 12.6 μ m 20.5 μ m	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories as per IS 2967
5.	Inside Micrometer ^{\$} L.C.: 0.01 mm	5 mm to 1000 mm	21.4 μ m	Using Slip Gauge, Long Slip Gauge, Slip Gauge Accessories as per IS 2966

Dheeraj Chawla
Convenor

Avijit Das
Program Manager

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6.	Depth Micrometer ^{\$} L.C.: 0.001 mm	Upto 100 mm	9.7 μ m	Using Slip Gauge, Long Slip Gauge as per IS 2966
7.	Digital Plunger Dial ^{\$} L.C.: 0.001 mm ^φ L.C.: 0.01 mm	0 to 10 mm 0 to 50 mm	2.1 μ m 8.7 μ m	Using Dial Calibration Tester, Comparator Stand, Slip Gauge IS 2092
8.	Lever Dial ^{\$} L.C.: 0.01 mm	0 to 0.8 mm	8.7 μ m	Using Dial Calibration Tester as per IS 11498
9.	Filler Gauge ^{\$}	0.01mm to 1.0 mm	3.8 μ m	Using Digital Micrometer Comparison Method
10.	Ultrasonic Thickness Gauge ^{\$} L.C.: 0.1 mm	5 mm to 100 mm	65.4 μ m	Using Slip gauges, Long Slip Gauge Comparison Method
11.	Radius Gauge ^{\$}	1mm to 25 mm	63.2 μ m	Using Profile Projector by Comparison Method
12.	Taper Scale ^{\$}	1mm to 15 mm	26.3 μ m	Using Profile Projector by Comparison Method
13.	Foils ^{\$}	0.01mm to 0.718 mm	3.4 μ m	Using Electronics Probe With DRO, Comparator Stand, Slip Gauge by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
14.	Coating Thickness Gauge ^{eng} L.C.: 0.001 mm	0.01mm to 0.718 mm	17.7 μ m	Using Coating Thickness Foils by Comparison Method
15.	Micrometer Setting Piece Standard ^s	25mm to 300 mm	7.6 μ m	Using Electronics Probe With DRO, Comparator Stand, Slip Gauge by Comparison Method
16.	Bore Gauge ^s	1 mm (Transmission)	8.2 μ m	Using Dial Calibration Tester by Comparison Method
II.	PRESSURE INDICATING DEVICES			
1.	Pneumatic Pressure: Dial/Digital Pressure Gauge ^{eng}	0 to 30 bar	0.14 bar	Using Digital Pressure Gauge (pneumatic hand pump) by comparison method as per DKD-R-6-1
2.	Hydraulic Pressure: Dial/Digital Pressure Gauge ^{eng}	30 to 400 bar	2.94 bar	Using Digital Pressure Gauge (Water based comparator pump) by comparison method as per DKD-R-6-1

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

^sOnly in Permanent Laboratory

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