

Laboratory

The Eaagle View (A Unit of Automikrotekh), 238/A Industrial Complex, 3rd Link Street, Nehru Nagar, IT Highway, Perungudi, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2564

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Validity

07.02.2018 to 06.02.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Calipers [§] (Vernier/Dial/Digital) L.C.: 0.01 mm	0 to 300 mm 0 to 450 mm	13.0 μ m 15.5 μ m	Using Gauge Blocks & Caliper Checker By Comparison based on IS 3651 (Part 1 & 2)
2.	External Micrometer [§] L.C.: 0.01 mm	0 to 150 mm	1.60 μ m	Using Gauge Blocks By Comparison based on IS 2967
3.	Depth Micrometer [§] L.C.: 0.01 mm	0 to 150 mm	5.9 μ m	Using Gauge Blocks By Comparison based on BS 6468
4.	Internal/ Stick Micrometer [§] L.C.: 0.01 mm	0 to 600 mm	7.7 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 2966
5.	Dial Gauge Plunger Type [§] L.C.: 0.001mm L.C.: 0.01 mm	0 to 1 mm 0 to 10 mm	1.3 μ m 5.8 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 2092
6.	Dial Gauge Lever Type [§] L.C.: 0.001 mm L.C.: 0.01 mm	0 to 0.14 mm 0 to 1 mm	1.0 μ m 6.0 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 11498 By Comparison based on IS 3455/6137

Rajeshwar Kumar
Convenor

Avijit Das
Program Director

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7.	Plain Plug Gauge ^s	2 mm to 50 mm Above 50 mm to 100 mm Above 100 mm to 200 mm	2.0 μ m 2.5 μ m 3.0 μ m	Using Universal Length Meas. Machine (ULM)
8.	Snap Gauge ^s	2 mm to 100 mm 100 mm to 150 mm	2.0 μ m 2.8 μ m	Using Gauge Blocks By Comparison based on IS 3455/7606/ 14271
9.	Micrometer Setting Rod ^s	25 mm to 100 mm 100 mm to 150 mm	1.4 μ m 2.8 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 2967
10.	Feeler Gauge ^s	0.03 mm to 1.0 mm	2.0 μ m	Using Digital Micrometer By Comparison based on IS 3179/4210
11.	Bore Dial Gauge ^s L.C.: 0.001 mm (For Transmission Error Only)	1.5 mm	1.6 μ m	Using Universal Length Meas. Machine (ULM) By Comparison
12.	Dial Thickness Gauge ^s	0 to 50 mm	6.7 μ m	Using Gauge Blocks By Comparison
13.	Height Gauge ^s (Vernier/Digital) L.C.: 0.01 mm	0 to 300 mm Above 300 mm to 600 mm	15.0 μ m 19.0 μ m	Using Gauge Blocks/ Caliper Checker By Comparison based on IS 2921
14.	Pistol Calipers ^s L.C.: 0.01 mm	0 to 200 mm	7.0 μ m	Using Gauge Blocks Procedure based on TEV/WI/013

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15.	Vernier Depth Gauge ^s L.C.: 0.02 mm	0 to 300 mm	13.4 μ m	Using Gauge Blocks By Comparison based on IS 4213
16.	Cylindrical Setting Master ^s	3 mm to 50 mm	1.0 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 4349
17.	Cylindrical Measuring Pin ^s	0.1 mm to 20 mm	0.80 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 11103
18.	Thread Measuring Cylinder ^s	0.17 mm to 6.35 mm	0.7 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 6311
19.	Thread Plug Gauge ^s	2 mm to 100 mm	1.8 μ m	Using ULM & Thread Meas. Wires By Comparison based on IS 2334 & IS 4218
20.	Thread Ring Gauge ^s	3 mm to 100 mm	2.2 μ m	Using ULM & Master Setting Ring By Comparison based on IS 2334 & IS 4218
21.	Plain Ring Gauge ^s	0 to 50 mm Above 50 mm to 100 mm Above 100 mm to 200 mm	2.0 μ m 2.5 μ m 3.0 μ m	Using Universal Length Meas. Machine (ULM) By Comparison based on IS 3455

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22.	Taper Thread Plug Gauge [§]	\varnothing 100 mm	1.9 μ m	Using Universal Length Meas. Machine (ULM) & Thread Meas. Wires By Comparison based on ANSI/ASME BI.20.1
23.	Surface Roughness Master [§] (Ra, Rt, Rz & Rmax)	Ra: Up to 5.0 μ m	7 %	Surface Roughness Tester and Master By Comparison based on IS 3073
		Rt: Up to 15.0 μ m	7 %	
		Rz: Up to 15.0 μ m	7 %	

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

[§]Only in Permanent Laboratory

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