

Laboratory **G. B. Central Laboratory, B-20, Developed Plots Estate, Thuvakudi, Tiruchirappalli, Tamil Nadu**

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

Discipline **Mechanical Calibration** **Issue Date** **11.12.2014**

Certificate Number **C-0520** **Valid Until** **10.12.2016**

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. VERNIER CALIPER^{\$} L.C.: 0.01 mm ^ϕ	0 to 300 mm 0 to 600 mm	14.66 μ m 18.02 μ m	Using Caliper Checker & Slip Gauge Sets
2. VERNIER HEIGHT GAUGE^{\$} L.C.: 0.01 mm ^ϕ L.C.: 0.02 mm	0 to 300 mm 0 to 600 mm	13.54 μ m 18.78 μ m	Using Caliper Checker & Slip Gauge Sets
3. VERNIER DEPTH GAUGE^{\$} L.C.: 0.02 mm	0 to 300 mm 0 to 600 mm	15.46 μ m 18.37 μ m	Using Caliper Checker & Slip Gauge Sets
4. EXTERNAL MICROMETER^{\$} L.C.: 0.001 mm ^ϕ L. C. : 0.01 mm	0 to 25 mm 25 mm to 300 mm	2.77 μ m 8.78 μ m	Using Slip Gauge Sets
5. INTERNAL MICROMETER^{\$} L.C.: 0.01 mm	50 to 300 mm	8.44 μ m	Using Slip Gauge Sets & Slip Gauge Accessories Set
6. STEEL TAPES^{\$} L.C.: 1mm	Upto 50 m	243 μ m x \sqrt{L} μ m (L in m)	Using Digital Steel Tape/ Scale Calibrator
7. STEEL RULE^{\$} L.C.: 0.5 mm ^ϕ	1000 mm	138 μ m	Using Digital Steel Tape/ Scale

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8. FEELER GAUGE [§]	Up to 1 mm	2.94 µm	Using Digital Micrometer
9. BORE DIAL GAUGE [§] L.C.: 0.001mm ^ϕ (Transmission Only)	Upto 1.2 mm	3.26 µm	Using Dial Calibration Tester
10. PLUNGER DIAL GAUGE ¹ L.C.: 0.001mm L.C.: 0.01mm	0 to 12.7 mm 0 to 10 mm	3.27 µm 6.61 µm	Using Dial Calibration Tester
11. LEVER DIAL GAUGE [§] L.C.: 0.01mm	0 to 1.00 mm	6.61 µm	Using Dial Calibration Tester
12. COATING THICKNESS FOILS [§]	9 µm to 1000 µm	2.94 µm	Using Digital Micrometer
13. COATING THICKNESS GAUGE [§] L.C.: 0.001mm	0 to 1000 µm	6.55 µm	Using Standard Foils
14. REFERENCE BLOCK FOR ULTRASONIC THICKNESS GAUGE [§]	1 mm to 25 mm	2.98 µm	Using Digital Micrometer
15. ULTRASONIC THICKNESS GAUGE [§] L.C.: 0.1 mm	1 mm to 25mm	57.75 µm	Using Standard Reference Block

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
16. STEEL SCALE / TAPE CALIBRATOR ^{\$} L.C.: 0.005 mm	0 to 1000 mm	13.17 µm	Using Slip Sets & Long Gauge Block
II. PRESSURE & VACUUM			
1. ANALOG / DIGITAL PRESSURE GAUGE ^{\$}	0 to 40 bar 0 to 300 bar 0 to 700 bar	0.04 bar 0.48 bar 0.49 bar	Using Digital Pressure Calibrator as per DKD – R6-1
2. PRESSURE TRANSMITTER WITH INDICATOR ^{\$} L.C.: 1 bar	0 to 600 bar	0.96 bar	Using Digital Pressure Calibrator as per DKD – R6-1

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

^{\$}Only in Permanent Laboratory

^φLaboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.