

Laboratory	Swaroop Calibration Lab, (A Unit of Swaroop Autotechnologies Pvt. Ltd.), Plot No. 401, Sector 58, Faridabad, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	23.02.2015
Certificate Number	C- 1187	Valid Until	22.02.2017
Last Amended on	-	Page	1 of 2

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I. DIMENSION			
1. DIGITAL /DIAL/ VERNIER CALIPER^{\$} L. C. : 0.010 mm^Φ	Upto 600 mm	9.0 μm	Using Gauge Blocks & Caliper Checker by Comparison Method
2. EXTERNAL MICROMETER^{\$} L. C. : 0.001 mm^Φ	Upto 300 mm	2.7 μm	Using Gauge Blocks by Comparison Method
3. DEPTH CALIPER^{\$} L. C. : 0.010 mm	Upto 300 mm	10 μm	Using Gauge Blocks by Comparison Method
4. HEIGHT GAUGE^{\$} L. C. : 0.001 mm^Φ	Upto 600 mm	5.4 μm	Using Caliper Checker & Surface Plat by Comparison Method
5. DIAL BORE GAUGE^{\$} L. C. : 0.001 mm	Travel 1 mm	1 μm	Using LMM by Comparison Method
6. PLAIN PLUG GAUGE^{\$}	Upto 400 mm	2.6 μm	Using LMM by Comparison Method
7. PLAIN RING GAUGE^{\$}	Ø6 mm to 400 mm	2.6 μm	Using LMM & Master Ring Gauge by Comparison Method

Ranjith Kumar
Convenor

Avijit Das
Program Manager

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
8.	LENGTH GAUGE^{\$}	Upto 400 mm	2.8 μ m	Using LMM by Comparison Method
9.	PLUNGER DIAL GAUGE^{\$} L.C. : 0.010 mm L.C. : 0.001 mm	Upto 50 mm Upto 25.4 mm	6 μ m 1.2 μ m	Using LMM & Dial Holder by Comparison Method
10.	LEVER DIAL GAUGE^{\$} L. C. : 0.001 mm ^{Φ}	Upto 2 mm	1.2 μ m	Using LMM & Dial Holder by Comparison Method
11.	AIR GAUGE UNIT^{\$}	Upto 40 mm	2 μ m	Using Master Ring Set of three Rings & Air Plug Gauge by Comparison Method

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

^{\$} Only in Permanent Laboratory

^{Φ} Laboratory 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.

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