

Laboratory	Prima Calibration Services, F-199, Mangal Bazar, Laxmi Nagar, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	01.06.2015
Certificate Number	C-0497	Valid Until	31.05.2017
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Quantity Measured/ Instrument		Range / Frequency	*Calibration Measurement Capability (±)	Remarks
I. DIMENSION				
1. CALIPER (Vernier / Dial / Digital) \$ L.C.: 0.01 mm ^Φ		0 to 150 mm	8.0 μm	Using Slip Gauge Set/Slip Gauge accessories & Caliper Checker
		0 to 200 mm	8.0 μm	
		0 to 300 mm	8.7 μm	
		0 to 600 mm	12.0 μm	
2. EXTERNAL MICROMETER \$ L.C.: 0.001 mm ^Φ		0 to 25 mm	1.7 μm	Using Slip gauge set / Length Bars
		25 mm to 50 mm	1.7 μm	
		50 mm to 75 mm	2.0 μm	
		75 mm to 100 mm	2.0 μm	
			2.0 μm	
		100 mm to 600 mm	20.0 μm	
L.C.: 0.01 mm				
3. INTERNAL MICROMETER \$ L.C.: 0.01 mm		50 mm to 600 mm	17.0 μm	Using Caliper Checker/ Slip gauge set & Slip Gauge Accessories
4. FEELER GAUGE \$		Upto 1 mm	5.0 μm	Using Digital External Micrometer
5. HEIGHT GAUGE (Vernier / Dial / Digital) \$ L.C.: 0.01 mm ^Φ		0 to 600 mm	12.0 μm	Using Caliper Checker Lever Type Dial Gauge
6. SNAP GAUGE \$		3 mm to 50 mm	2.4 μm	Using Slip Gauge Set
		100 mm	2.6 μm	

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7.	PLAIN PLUG GAUGE ^{\$}	Upto 100 mm	4.7 μ m	Using Dial Gauge / slip gauge set & Granite surface Plate
8.	DIAL GAUGE ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	0 to 1 mm 0 to 25 mm	2.5 μ m 7.0 μ m	Using Slip gauge set/Granite Surface Plate & Dial Calibration Tester
9.	LEVER TYPE DIAL GAUGE ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	0.14 mm 0 to 0.8 mm	2.5 μ m 6.3 μ m	Using Slip gauge set/ Granite Surface Plate & Dial Calibration Tester
10.	PIN GAUGE SET ^{\$}	Upto 25 mm	2.5 μ m	Using Digital External Micrometer
11.	BORE GAUGE ^{\$} (Travel Only) L.C.: 0.01 mm	10 mm to 18 mm	5.0 μ m	Using Dial Calibration Tester & Dial Gauge
12.	LENGTH BAR ^{\$}	Upto 300 mm 300 mm to 575 mm	6.0 μ m 8.5 μ m	Using Length Bars/ Slip gauge set/ Lever Type Dial Gauge / Granite Surface Plate
13.	MAGNETIC ^{\$} V- BLOCK Parallalism Squareness Symmetry	Upto 150 mm	5.2 μ m	Using Slip gauge set/ Lever Type Dial Gauge/ Granite Surface Plate
14.	VERNIER DEPTH GAUGE ^{\$} L.C.: 0.02 mm	0 to 300 mm	15.0 μ m	Using Slip Gauge Set/ Length bar

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15.	BEVEL PROTRACTOR / COMBINATION SET [§] L.C.: 5 minute ^Φ	Upto 180 °	5 min	Using Angle Gauge Set
16.	STEEL SCALE [§] L.C.: 0.5 ^Φ	0 to 1000 mm	460.0 µm	Using Length Measuring Device
17.	MEASURING TAPE [§] L.C.: 1 mm	0 to 15 meter	460√L Lin m	Using Length Measuring Device
18.	DIAL THICKNESS GAUGE [§] L.C.: 0.01 mm	0 to 25 mm	7.0 µm	Using Slip Gauge Set
19.	PROFILE PROJECTOR* Linear Scale L.C.: 0.001 mm	X = 0 to 200 mm Y = 0 to 200 mm	10.0 µm	Using Slip Gauge Set & Angle Gauge set
	Angular Scale L.C.: 6 second	90 °	5.0 min	
20.	RPM METER * L.C.: 1 RPM	Upto 30000 rpm	13.0 µm	Using Digital Tachometer

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
II. MASS			
1. BALANCE *	Upto 1 kg		Using Standard weights & Reference weights of Accuracy Class F ₁ & F ₂ , Based On OIML, R 76 (2006)
	Readability ≤ 0.1 mg	3 mg	
	Readability ≤ 1 mg	20 mg	
	Upto 30 kg		
	Readability ≤ 10 mg	30 mg	
	Readability ≤ 100 mg	150 mg	
	Readability ≤ 1 g	2 g	
	Readability ≤ 10 g	15 g	
	Upto 150 kg		
	Readability ≤ 10 g	18 g	
	Readability ≤ 100 g	200 g	
III. PRESSURE			
1. PRESSURE HYDRAULIC Digital / Dial Pressure Gauges, Pressure Transmitter, Pressure Switch / Pressure Valve #			
	0 to 50 kg/cm ²	0.34 kg/cm ²	Comparison using Digital Pressure Gauge Using hydraulic comparator pump
	0 to 600 bar	2.4 bar	

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

\$Only in Permanent Laboratory

*Only for Site Calibration

^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.

[#] 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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