

Laboratory

Sparx Precision, No. 2370, HIG T.N.H.B, Avadi, Chennai, Tamil Nadu

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2587

Page

1 of 3

Validity

05.03.2018 to 04.03.2020

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.	Caliper ^s L.C.: 0.01 mm	0 to 600 mm	14.9 μ m	Using Caliper Checker & Gauge Blocks
2.	Depth Calipers ^s L.C.: 0.01 mm	0 to 300 mm	12.4 μ m	Using Caliper Checker & Gauge Blocks
3.	Height Gauge ^s L.C.: 0.01 mm	0 to 600 mm	9.9 μ m	Using Caliper Checker
4.	External Micrometer ^s L.C.: 0.001 mm L.C.: 0.01 mm	0 to 300 mm 0 to 500 mm	5 μ m 10.2 μ m	Using Gauge Blocks, Optical Flat
5.	Micrometer Setting Rod ^s	0 to 500 mm	10.3 μ m	Using Electronic Height Gauge
6.	Depth Micrometer ^s L.C.: 0.01 mm	Up to 150 mm	7.5 μ m	Using Gauge Blocks
7.	Internal Micrometer ^s L.C.: 0.01 mm	Up to 600 mm	9.8 μ m	Using Electronic Height Gauge
8.	Plunger Dial Gauge ^s L.C.: 0.001 mm	0 to 25 mm	1.1 μ m	Using Dial Calibration Tester
9.	Lever Dial Gauge ^s L.C.: 0.001 mm	1 mm	1 μ m	Using Dial Calibration Tester
10.	Bore Dial Gauge ^s L.C.: 0.001 mm	Up to 1 mm Transmission	1.5 μ m	Using Dial Calibration Tester

Shally Sharma
Convenor

Avijit Das
Program Director

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Page

2 of 3

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11.	Pistol Caliper ^s L.C.: 0.1 mm	0 to 100 mm	66.4 μ m	Using Gauge Blocks
12.	Dial Thickness Gauge ^s L.C.: 0.01 mm	0 to 10 mm	7.9 μ m	Using Gauge Blocks
13.	Snap Gauge ^s	Up to 200 mm	4.2 μ m	Using Gauge Blocks
14.	Surface Plate [*]	3000 mm x 3000 mm	$1.6 \sqrt{\frac{L+W}{100}}$ μ m	Using Precision Spirit Level
15.	Electronic Height Gauge [*] L.C : 0.0001mm	Up to 600 mm	7.4 μ m	Using Gauge Blocks & Long Gauge Blocks
16.	Video Measuring Machine [*] L.C: 0.0001 mm	300 mm x 200 mm	8.5 μ m	Using Standard Glass Scale as per JIS 7184
17.	Profile Projector [*] Linear L.C: 0.001 mm Magnification Angle	 300 mm x 200 mm Up to 50X 0 to 360°	 8.0 μ m 0.20 % 38 seconds of arc	Using Standard Glass Scale, Magnification Glass Scale, Angular Graticule By Comparison Method JIS 7184

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Certificate Number CC-2587 **Page** 3 of 3
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II.	PRESSURE INDICATING DEVICES			
1.	Pressure Hydraulic Pressure Gauges [#]	0 to 70 bar 70 bar to 700 bar	0.20 bar 1.1 bar	Using Digital Pressure Gauge By Comparison Method DKD-R-6-1

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

[§] Only in Permanent Laboratory

^{*} Only for Site Calibration

[#] 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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