

**Laboratory** S.V. India Calibration Services, Unit -1<sup>st</sup>, LIG-182/1, Awas Vikas, Rudrapur, U. S. Nagar, Uttarakhand

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

**Discipline** Mechanical Calibration **Issue Date** 23.09.2015

**Certificate Number** C-0751 **Valid Until** 22.09.2017

**Last Amended on** 10.03.2016 **Page** 1 of 5

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I. DIMENSION</b>			
<b>1. Vernier caliper</b> \$	0 to 300 mm/0.01 mm	$\pm 12.0 \mu\text{m}$	Using Caliper Checker
	0 to 300 mm/0.02 mm	$\pm 16.1 \mu\text{m}$	Using Caliper Checker
	0 to 600 mm/0.01 mm	$\pm 14.0 \mu\text{m}$	Using Caliper Checker
	0 to 600 mm/0.02 mm	$\pm 20.0 \mu\text{m}$	Using Caliper Checker
<b>2. Height Gauge</b> \$	0 to 300 mm/0.01 mm	$\pm 10.0 \mu\text{m}$	Using Caliper Checker
	0 to 300 mm/0.02 mm	$\pm 18.0 \mu\text{m}$	Using Caliper Checker
	0 to 600 mm/0.01 mm	$\pm 12.0 \mu\text{m}$	Using Caliper Checker
	0 to 600 mm/0.02 mm	$\pm 20.0 \mu\text{m}$	Using Caliper Checker
<b>3. External Micrometer</b> \$	0 to 25 mm/0.001 mm	$\pm 1.6 \mu\text{m}$	Using Slip Gauge Box M112
	0 to 25 mm/0.01 mm	$\pm 4.0 \mu\text{m}$	Using Slip Gauge Box M112
	0 to 150 mm/0.001 mm	$\pm 2.3 \mu\text{m}$	Using Slip Gauge Box M112
	0 to 150 mm/0.01 mm	$\pm 6.1 \mu\text{m}$	Using Slip Gauge Box M112
<b>4. Plain Plug Gauge</b> \$	Upto 50 mm	$\pm 1.8 \mu\text{m}$	Using Digimatic External Micrometer
	$\Phi 1$ to $\Phi 50$ mm	$\pm 4.1 \mu\text{m}$	Using Slip Gauge Set M112
	$\Phi 50$ mm to $\Phi 250$ mm		Electronic Probe
<b>5. Plunger Type Dial Gauge</b> \$	0 to 1.0 mm/0.001 mm	$\pm 1.2 \mu\text{m}$	Using Dial Calibration Tester
	0 to 25 mm/0.01 mm	$\pm 2.8 \mu\text{m}$	Using Dial Calibration Tester
<b>6. Lever Type Dial Gauge</b> \$	0 to 1 mm/0.001 mm	$\pm 1.2 \mu\text{m}$	Using Dial Calibration Tester
	0 to 1 mm/0.002 mm	$\pm 1.7 \mu\text{m}$	Using Dial Calibration Tester
	0 to 1 mm/0.01 mm	$\pm 4.0 \mu\text{m}$	Using Dial Calibration Tester
<b>7. Dial Bore Gauge</b> \$ (2Pin)(Travel Only)	Upto 2 mm/0.001 mm	$\pm 1.6 \mu\text{m}$	Using Dial Calibration Tester
	Upto 2 mm/0.01 mm	$\pm 4.0 \mu\text{m}$	Using Dial Calibration Tester

Ram Ashray  
Convenor

Avijit Das  
Program Manager

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<b>Last Amended on</b>	<b>10.03.2016</b>	<b>Page</b>	<b>2 of 5</b>

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
8. Dial thickness Gauge \$	0 to 10 mm/0.01 mm	$\pm 4.0 \mu\text{m}$	Using Slip Gauge Box M112
9. Thread Plug Gauge / Wear Check plug \$ Gauge(PCD Only)	2 to 50 mm	$\pm 3.0 \mu\text{m}$	Using Thread Measuring Wire
10. Measuring Pin \$	Upto 25 mm	$\pm 1.7 \mu\text{m}$	Using Digmatic external Micrometer
11. Width Gauge \$	Upto 50 mm	$\pm 2.0 \mu\text{m}$	Using Digmatic external Micrometer
12. Flush Pin Gauge \$	Upto 50 mm	$\pm 2.0 \mu\text{m}$	Using Slip Gauge Box M112
13. Wear Check Ring Gauge \$ (PCD ONLY)	$\Phi 5$ to $\Phi 100$ mm	$\pm 2.5 \mu\text{m}$	Using Length Measuring Machine
14. Thread Ring Gauge \$ (PCD ONLY)	$\Phi 5$ to $\Phi 100$ mm	$\pm 2.5 \mu\text{m}$	Using Length Measuring Machine
15. Snap gauge	2 mm to 250 mm	$\pm 4.0 \mu\text{m}$	Using Slip Gauge Box M112
16. Spline Plug Gauge \$ (PCD ONLY)	10 mm to 50 mm	$\pm 3.7 \mu\text{m}$	Using Digimatic External Micrometer & Standard Pin
17. Spline Ring Gauge \$ (PCD ONLY)	$\Phi 10$ mm to $\Phi 50$ mm	$\pm 3.6 \mu\text{m}$	Slip Gauge Box M112 & Standard Pin
18. Dial snap gauge \$	2 mm to 175mm	$\pm 2.1 \mu\text{m}$	Using Slip Gauge Box M112
19. Blade Micrometer & flange Micrometer \$	0 to 25 mm/0.001 mm 25 mm to 50 mm/0.001 mm 0 to 25 mm/0.01 mm 25 mm to 50 mm/0.01 mm	$\pm 3.0 \mu\text{m}$ $\pm 4.0 \mu\text{m}$ $\pm 5.0 \mu\text{m}$ $\pm 6.0 \mu\text{m}$	Using Slip Gauge Box M112 Using Slip Gauge Box M112 Using Slip Gauge Box M112 Using Slip Gauge Box M112

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<b>20. V Block Parallelism, Squreness, V Angle <sup>\$</sup></b>	Upto 150 mm 150x 75 mm 0 to 360°	$\pm 4.0 \mu\text{m}$ , $\pm 4.0 \mu\text{m}$ , 12'0"	Using Surface Plate & Test Mendrals And Dial Indicator
<b>21. Measuring Tape / Steel scale <sup>\$</sup></b>	0 to 1.0 mtr.	230 $\mu\text{m}$	Using Profile Projector
<b>22. Depth caliper <sup>\$</sup></b>	Upto 300 mm L.C.0.01mm	$\pm 13.0 \mu\text{m}$	Using Gauge Blocks & V Blocks And Dial Indicator
<b>23. Coating Thickness Gauge <sup>\$</sup></b>	Upto 500 $\mu\text{m}$	$\pm 3.0 \mu\text{m}$	Using Standard Foil
<b>24. Bevel Protector <sup>\$</sup> L.C.5'</b>	0-90°	$\pm 3'$	Using Angle gauge (15,30,45,60,90)° Surface Plate & Dial Indicator Gauge Blocks
<b>25. Radius Gauge <sup>\$</sup></b>	0.5 to 50 mm	$\pm 10.0 \mu\text{m}$	Using Profile Projector
<b>26. Sprit Level Base Length <sup>\$</sup> L.C.0.02mm</b>	Upto 200 mm	$\pm 20 \mu\text{m/m}$	Using Electronic Level 150 mm 0.01 mm/meter Surface Plate (630x630)mm & Dial Indicator
<b>27. Comparator stand <sup>\$</sup></b>	Upto 300*300 mm	$\pm 3.0 \mu\text{m}$	Using Electronic Level
<b>28. Feeler Gauge <sup>\$</sup></b>	Upto 2.0 mm	$\pm 2.0 \mu\text{m}$	Using Digmatic external Micrometer
<b>29. Depth Micrometer <sup>\$</sup></b>	0 to 25 mm 0.001 mm	$\pm 2.6 \mu\text{m}$	Using Slip Gauge M112 Surface Plate
	25mm to 50 mm 0.001 mm	$\pm 4.0 \mu\text{m}$	Using Slip Gauge M112 Surface Plate
	0 to 25mm 0.01 mm	$\pm 5.0 \mu\text{m}$	Using Slip Gauge M112 Surface Plate
	25 mm to 50 mm 0.01 mm	$\pm 6.0 \mu\text{m}$	Using Slip Gauge M112 Surface Plate

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30. Depth Caliper \$	Upto 0 to 300 mm	$\pm 13.0 \mu\text{m}$	Using Caliper Checker (0-600) mm
31. Pitch Gauge \$	Upto 0 to 10 mm	$\pm 3.5 \mu\text{m}$	Using Profile Projector
32. Plain Ring Gauge \$	Upto 100 mm	$\pm 0.6 \mu\text{m}$	Using Length Measuring Machine
33. Plain Ring Gauge \$	100 mm to 250 mm	$\pm 4.0 \mu\text{m}$	Using Bore Gauge & Setting Ring gauge Blocks
34. Thread Measuring Wire \$	3.0 mm	$\pm 2.0 \mu\text{m}$	Using Digital Micrometer
35. RPM Meter \$	100 rpm to 6000 rpm	0.420 %	Using Tachometer
36. Surface Plate *	2000 mm to 2000 mm	$5 \sqrt{\frac{L+W}{150\mu}} \mu\text{m}$ L & W in mm	Using Using Electronic Level
37. Profile Projector * -Linear Scale -Angular Scale -Magnification	Upto 200 mm 360 °C 10 x	7.4 $\mu\text{m}$ 15''	Using Using Slip Gauge

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<b>II. PRESSURE</b>			
<b>1. Industrial Pressure Gauge *</b>	0 to 40 kg/cm <sup>2</sup> 40 kg/cm <sup>2</sup> to 600 kg/cm <sup>2</sup>	0.69 kg/cm <sup>2</sup> 1.68 kg/cm <sup>2</sup>	Using Digital Pressure Gauge by Direct Comparison Method

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

\$ Only in Permanent Laboratory

\*Only for Site Calibration

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