

**Laboratory** Metrology Lab, Electric Loco Shed, West Central Railway,  
Tughlakabad, New Delhi

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

**Certificate Number** CC-2599 **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
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>1.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
<b>1.</b>	Vernier Caliper <sup>§</sup> (Analog/Dial/Digital) L.C.: 0.01 mm	0 to 300 mm 0 to 600 mm	10.4 $\mu$ m 14.7 $\mu$ m	Using Caliper Checker & Gauge Block Set
	L.C.: 0.02 mm	0 to 300 mm 0 to 600 mm	16.8 $\mu$ m 18.8 $\mu$ m	
	L.C.: 0.05 mm	0 to 300 mm 0 to 600 mm	29.7 $\mu$ m 31.5 $\mu$ m	
<b>2.</b>	External Micrometer <sup>§</sup> (Analog/Digital) L.C.: 0.001 mm	0 to 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm	1.4 $\mu$ m 1.6 $\mu$ m 2.0 $\mu$ m 2.4 $\mu$ m	Using Gauge Block Set
	L.C.: 0.01 mm	0 to 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm	7.1 $\mu$ m 7.2 $\mu$ m 7.3 $\mu$ m 7.4 $\mu$ m	
<b>3.</b>	Height Gauge <sup>§</sup> (Vernier/Dial/ Digital)			Using Caliper Checker, Granite Surface Plate & Gauge Block Set
	L.C.: 0.01 mm	0 to 300 mm 0 to 600 mm	10.5 $\mu$ m 14.7 $\mu$ m	
	L.C.: 0.02 mm	0 to 300 mm 0 to 600 mm	15.8 $\mu$ m 18.9 $\mu$ m	

**Rajeshwar Kumar**  
Convenor

**Avijit Das**  
Program Director

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4.	Inside Micrometer <sup>s</sup> (Analog/Digital) L.C.: 0.01 mm	05 mm to 30 mm 50 mm to 300 mm 50 mm to 600 mm	8.6 $\mu$ m 10.6 $\mu$ m 15.1 $\mu$ m	Using Caliper Checker, & Gauge Block Set
5.	Feeler Gauge <sup>s</sup>	Up to 1.0 mm	2.9 $\mu$ m	Using External Micrometer
6.	Plunger Dial Gauge <sup>s</sup> (Dial/Digital) L.C.: 0.01 mm L.C.: 0.001 mm	0 to 10 mm 0 to 12.5 mm	6.5 $\mu$ m 3.1 $\mu$ m	Using Electronic Dial Calibration Tester
7.	Bore Gauge <sup>s</sup> (Dial/Digital) L.C.: 0.001 mm	Transmission Up to 2.0 mm	3.1 $\mu$ m	Using Electronic Dial Calibration Tester
8.	Scale <sup>s</sup> L.C.: 0.5 mm	Up to 2000 mm	0.3 $\sqrt{L}$ mm (Where L is Length in meter)	Using Digital Scale & Tape Calibration Unit
	L.C.: 01 mm		0.6 $\sqrt{L}$ mm (Where L is Length in meter)	
9.	Measuring Tape <sup>s</sup> L.C.: 01 mm	Up to 30 m	0.6 $\sqrt{L}$ mm (Where L is Length in meter)	Using Digital Scale & Tape Calibration Unit
	L.C.: 02 mm		1.2 $\sqrt{L}$ mm (Where L is Length in meter)	
	L.C.: 10 mm		5.8 $\sqrt{L}$ mm (Where L is Length in meter)	

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II.	<b>PRESSURE INDICATING DEVICES</b>			
1.	Pressure Gauge <sup>§</sup> (Analog/Digital)	0 to 15 bar	0.123 bar	Using Pneumatic Pressure Calibrator
2.	Vacuum Gauge <sup>§</sup> (Analog/Digital)	(-) 0.8 bar to 0 bar	0.039 bar	Using Pneumatic Pressure Calibrator

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

§ Only in Permanent Laboratory