Laboratory	**Metrological Services Dept., Opto Electronics Factory, Govt. of India, Ministry of Defence, Raipur, Dehradun, Uttarakhand**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**CC-2514** **Page 1 of 2**
Validity	**03.01.2018 to 02.01.2020** **Last Amended on --**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Calipers[$] (Digital/ Vernier) L. C.: 0.01 mm	0 to 300 mm	19 µm	Using Gauge Blocks
2.	External Micrometer[$] (Digital/ Mechanical) L. C.: 0.001 mm	0 to 100 mm 100 mm to 300 mm	1.2 µm 3.2 µm	Using Gauge Blocks
3.	Dial Gauge[$] Plunger Type (Digital/Dial) L.C.: 0.001 mm	0 to 50 mm	2.0 µm	Using Gauge Blocks/LMM
4.	Dial Gauge[$] Lever Type L.C.: 0.002 mm	0 to 0.8 mm	2.4 µm	Using LMM
5.	Plain Plug Gauge[$]	0.70 mm to 100 mm	1.9 µm	Using LMM
6.	Cylindrical Pins[$]	1.00 mm to 10 mm	2 µm	Using LMM
7.	Thread Plug Gauge[$] Pitch Pitch Dia	 Up to 2 mm Up to 100 mm	 6.2 µm 3 µm	 Using LMM/ Thread Measuring Wire

Shally Sharma
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
8.	Height Gauge[$] (Electronic/ Vernier) L.C.: 0.01 mm	0 to 450 mm	9.2 µm	Using Gauge Blocks & Surface Plate
9.	Length Rod/ Setting Rod[$]	25 mm to 100 mm	3.5 µm	Using LMM
10.	Feeler Gauge[$]	0 to 1 mm	2.0 µm	Using Length Measuring Machine
11.	Tool Makers Microscope[$] Length L.C.: 0.001 mm Angle L.C.: 1'	 0 to 150 mm 0 to 360°	 2.4 µm 2.2 min. of arc	Using Slip & Angle Gauge Blocks
12.	Floating Carriage Micrometer[$] L.C.: 0.0002 mm	0 to 25 mm	1.0 µm	Using Gauge Blocks
13.	Bevel Protractor[$] L.C.: 5'(min.)	0 to 90° X4 Quadrant	3.0 min. of arc	Using Angle Gauge Blocks and Square Master
II.	**DIMENSION (PRECISION INSTRUMENTS)**			
1.	Length Measuring Machine[$] L.C.: 0.0001 mm	0 to 300 mm	0.95+2.5 L µm 'L' in meter	Using Gauge Blocks

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]Only in Permanent Laboratory

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