

**Laboratory** Standard Room, Elecon Engineering Co. Ltd., Gear Division, Anand-Sojitra Road, Vallabh-Vidyanagar, Dist: Anand, Gujarat

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

**Discipline** Mechanical Calibration **Issue Date** 26.11.2015

**Certificate Number** C-1002 **Valid Until** 25.11.2017

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

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I. DIMENSION</b>			
<b>1. CALIPER<sup>s</sup></b> (Vernier / Digital/ Dial Type) L. C. 0.01 mm <sup>Φ</sup>	0 to 600 mm 0 to 1000 mm	11 $\mu$ m 15 $\mu$ m	Using Caliper Checker by Comparison Method
<b>2. HEIGHT GAUGE<sup>s</sup></b> (Vernier /Digital/ Dial Type) L. C. : 0.01 mm <sup>Φ</sup> L. C. : 0.02 mm	0 to 600 mm 0 to 1000 mm	14 $\mu$ m 16 $\mu$ m	Using Caliper Checker & Granite Surface Plate By Comparison Method
<b>3. DEPTH GAUGE<sup>s</sup></b> (Vernier/Digital/Dial Type) L. C. : 0.01 mm <sup>Φ</sup>  L. C. : 0.02 mm	0 to 300 mm  0 to 600 mm	6 $\mu$ m  17 $\mu$ m	Using Depth Micrometer Checker By Comparison Method  Using Caliper Checker & Granite Surface Plate By Comparison Method
<b>4. EXTERNAL MICROMETER<sup>s</sup></b> L.C.: 0.01 mm  L. C. : 0.001 mm <sup>Φ</sup>	>300 mm to 500 mm >500 mm to 1000 mm  0 to 100 mm >100 mm to 300 mm	5 $\mu$ m 9 $\mu$ m  1.0 $\mu$ m 2.5 $\mu$ m	Using Slip Gauge Set & Length Bar By Comparison Method

**Neeraj Verma**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** Standard Room, Elecon Engineering Co. Ltd., Gear Division, Anand-Sojitra Road, Vallabh-Vidyanagar, Dist: Anand, Gujarat

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

**Discipline** Mechanical Calibration **Issue Date** 26.11.2015

**Certificate Number** C-1002 **Valid Until** 25.11.2017

**Last Amended on** - **Page** 2 of 5

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
5. INTERNAL MICROMETER MIROMETER HEAD <sup>\$</sup> L. C. : 0.01 mm	Upto 13 mm	3.0 $\mu$ m	Using Slip Gauge Set & Slip Gauge Accessories By Comparison Method
6. ERROR IN LENGTH OF EACH EXTENSION ROD WHEN THIMBLE READS ZERO <sup>\$</sup>	50 mm to 1500 mm	17 $\mu$ m	Using Caliper Checker & Length Bar By Comparison Method
7. DEPTH MICROMETER MICROMETER SCREW ERROR <sup>\$</sup> L. C. : 0.01 mm	0 to 25 mm	1.5 $\mu$ m	Using Slip Gauge Set & Granite Surface Plate By Comparison Method
ERROR IN LENGTH OF EACH EXTENSION ROD WHEN THIMBLE READS ZERO <sup>\$</sup>	0 to 150 mm	5 $\mu$ m	Using Depth Micrometer Checker By Comparison Method
8. DIAL GAUGE <sup>\$</sup> (Plunger Type) L. C. : 0.01 mm L. C. : 0.001 mm	0 to 10 mm 0 to 5 mm	3.6 $\mu$ m 3.6 $\mu$ m	Using Electronic Dial Calibration Tester By Comparison Method

**Neeraj Verma**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** Standard Room, Elecon Engineering Co. Ltd., Gear Division, Anand-Sojitra Road, Vallabh-Vidyanagar, Dist: Anand, Gujarat

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

**Discipline** Mechanical Calibration **Issue Date** 26.11.2015

**Certificate Number** C-1002 **Valid Until** 25.11.2017

**Last Amended on** - **Page** 3 of 5

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
9. DIAL GAUGE <sup>\$</sup> (Lever Type) L. C. : 0.01 mm L. C. : 0.001 mm L. C. : 0.002 mm	0 to 0.80 mm 0 to 0.14 mm 0 to 0.20 mm	3.6 $\mu$ m 3.6 $\mu$ m 3.6 $\mu$ m	Using Electronic Dial Calibration Tester By Comparison Method
10. BORE DIAL GAUGE <sup>\$</sup> (for Transmission Error only 1 mm Stroke)	1 mm stroke	7.5 $\mu$ m	Using EDCT Plunger Dial By Comparison Method
11. ELECTRONICS PROBE WITH DRO <sup>\$</sup> L.C.: 0.0001 mm	0 to 2 mm	0.6 $\mu$ m	Using Slip Gauge Set, Comparator Stand By Comparison Method
12. PLAIN RING GAUGE <sup>\$</sup>	$\varnothing$ 12 to $\varnothing$ 300	3.9 $\mu$ m	Using ULM & Master Setting Ring By Comparison Method
13. PLAIN PLUG GAUGE <sup>\$</sup>	$\varnothing$ 1 mm to $\varnothing$ 100 mm	2.2 $\mu$ m	Using ULM By Comparison Method
14. THREAD PLUG GAUGE & WCP FOR EFFECTIVE DIAMETER ONLY <sup>\$</sup>	M5 to M135	2.3 $\mu$ m	Using ULM & Thread Measuring Wires By Comparison Method
15. THREAD RING GAUGE FOR EFFECTIVE DIAMETER ONLY <sup>\$</sup>	M12 to M180	3.7 $\mu$ m	Using ULM & Master Setting Ring By Comparison Method

Neeraj Verma  
Convenor

Avijit Das  
Program Manager

**Laboratory** Standard Room, Elecon Engineering Co. Ltd., Gear Division, Anand-Sojitra Road, Vallabh-Vidyanagar, Dist: Anand, Gujarat

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

**Discipline** Mechanical Calibration **Issue Date** 26.11.2015

**Certificate Number** C-1002 **Valid Until** 25.11.2017

**Last Amended on** - **Page** 4 of 5

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
16. SNAP GAUGE <sup>\$</sup>	12 mm to 150 mm	3.6 $\mu$ m	Using ULM & Master Setting Ring By Comparison Method
17. FEELER GAUGE <sup>\$</sup>	0.01 mm to 1.00 mm	2.0 $\mu$ m	Using Digital Outside Micrometer By Comparison Method
18. SETTING ROD <sup>\$</sup> (Micrometer Setting Stick)	0 to 300 mm	3 $\mu$ m	Using Electronic Comparator & Slip Gauge By Comparison Method
	>300 mm to 500 mm	5 $\mu$ m	Using Electronic Comparator & Length Bar By Comparison Method
	>500 mm to 975 mm	15 $\mu$ m	Using Dial Gauge, Length Bar & Granite Surface Plate By Comparison Method
19. MEASURING PIN <sup>\$</sup>	$\varnothing$ 0.5 mm to $\varnothing$ 20 mm	2 $\mu$ m	Using Electronics Comparator & Slip Gauge By Comparison Method
20. RADIUS GAUGE <sup>\$</sup>	R 25 mm	14 $\mu$ m	Using Profile Projector By Comparison Method
21. THREAD PITCH GAUGE <sup>\$</sup>	0.4 mm to 6.0 mm 60°	14 $\mu$ m 11'	Using Profile Projector By Comparison Method
22. BEVEL PROTRACTOR <sup>\$</sup>	L. C. : 5'	0-90°-0	Using Angle Gauge By Comparison Method
	L. C. : 1'	0-360°	

Neeraj Verma  
Convenor

Avijit Das  
Program Manager

**Laboratory** Standard Room, Elecon Engineering Co. Ltd., Gear Division, Anand-Sojitra Road, Vallabh-Vidyanagar, Dist: Anand, Gujarat

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

**Discipline** Mechanical Calibration **Issue Date** 26.11.2015

**Certificate Number** C-1002 **Valid Until** 25.11.2017

**Last Amended on** - **Page** 5 of 5

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
23. WIDTH GAUGE <sup>\$</sup>	Upto 100 mm	2 $\mu$ m	Using Electronic Comparator & Slip Gauge By Comparison Method

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

<sup>\$</sup>Only in Permanent Laboratory

<sup>Φ</sup> 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.

\_\_\_\_\_  
Neeraj Verma  
Convenor

\_\_\_\_\_  
Avijit Das  
Program Manager