

Laboratory

Instrulab Aero & Allied Systems, No. 67, G.S.T Road, Tambaram Sanatorium, Chennai, Tamil Nadu

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2358

Page

1 of 3

Validity

18.08.2017 to 17.08.2019

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>			
1.	Caliper <sup>§</sup> (Vernier /Dial / Digital) L.C: 0.01 mm $\phi$ L.C: 0.01mm $\phi$	0 to 300 mm 300 mm to 600 mm	10.3 $\mu$ m 11.4 $\mu$ m	Using Slip Gauges, Long Slip Gauges & Caliper Checker
2.	Height Gauge <sup>§</sup> (Vernier / Dial / Digital) L.C: 0.01 mm $\phi$ L.C: 0.01mm $\phi$	0 to 300 mm 300 mm to 600 mm	10.3 $\mu$ m 11.4 $\mu$ m	Using Slip Gauges, Long Slip Gauges & Caliper Checker
3.	External Micrometer <sup>§</sup> L.C: 0.001 mm $\phi$ L.C: 0.001 mm $\phi$	0 to 100 mm 100 mm to 300 mm	0.8 $\mu$ m 2.5 $\mu$ m	Using Slip Gauges & Long Slip Gauges
4.	Feeler Gauge <sup>§</sup>	0.01mm to 1 mm	5.4 $\mu$ m	Using Digital Micrometer
5.	Plunger Dial Gauge <sup>§</sup> L.C: 0.001 mm $\phi$ L.C: 0.01mm	0 to 10 mm 0 to 50 mm	1.7 $\mu$ m 6.2 $\mu$ m	Using Electronic Dial Calibration Tester
6.	Lever Dial Gauge <sup>§</sup> L.C: 0.001 mm $\phi$	0 to 2 mm	2.3 $\mu$ m	Using Electronic Dial Calibration Tester
7.	Bore Dial Gauge <sup>§</sup> (Transmission Error Only)	Upto 1 mm	4.2 $\mu$ m	Using Electronic Dial Calibration Tester

**Mohit Kaushik**  
Convenor

**Avijit Das**  
Program Director

Laboratory

Instrulab Aero & Allied Systems, No. 67, G.S.T Road, Tambaram Sanatorium, Chennai, Tamil Nadu

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2358

Page

2 of 3

Validity

18.08.2017 to 17.08.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
8.	Digital Protractor <sup>§</sup> (Clinometer) L.C: 0.1°	0 to 90°	4.2 min of arc	Using Angle Gauge Blocks (Grade "0")
9.	Dial Thickness Gauge <sup>§</sup> L.C: 0.001 mm <sup>Ⓞ</sup>	0 to 10 mm	0.8 $\mu$ m	Using Slip Gauges
II.	<b>ACOUSTICS</b>			
1.	Sound Level Indicator <sup>§</sup>	94 dB 114 dB	0.55 dB 0.67 dB	Using Sound Level Calibrator
III.	<b>PRESSURE INDICATING DEVICES</b>			
		40 mbar-abs to 2000 mbar-abs	0.16% rdg	Digital Absolute Pressure Indicator with Pneumatic Pump as per DKD R-6-1
		0 to 14 bar	0.60% rdg	Digital Pressure Indicator with Pneumatic/ Vacuum Pump as per DKD R-6-1
		0 to 100 bar	0.23% rdg	Digital Pressure Indicator with Nitrogen Generator as per DKD R-6-1
		6 kg/cm <sup>2</sup> to 60 kg/cm <sup>2</sup>	0.16% rdg	Using Hydraulic Dead Weight Tester as per DKD R-6-1
		60 kg/cm <sup>2</sup> to 700 kg/cm <sup>2</sup>	0.32% rdg	Using Hydraulic Dead Weight Tester as per DKD R-6-1

Mohit Kaushik  
Convenor

Avijit Das  
Program Director

**Laboratory** Instrulab Aero & Allied Systems, No. 67, G.S.T Road, Tambaram  
 Sanatorium, Chennai, Tamil Nadu  
**Accreditation Standard** ISO/IEC 17025: 2005  
**Certificate Number** CC-2358 **Page** 3 of 3  
**Validity** 18.08.2017 to 17.08.2019 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
3.	Vacuum <sup>§</sup> Dial and Digital Pressure Gauges, Pressure Transmitters	(-) 0.95 bar to 0 bar	0.62% rdg	Using Digital Vacuum Indicator with Vacuum Pump as per DKD R-6-1

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

<sup>§</sup>Only in Permanent Laboratory

<sup>¶</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.

---

Mohit Kaushik  
Convenor

---

Avijit Das  
Program Director