

**Laboratory** HY-Tek Precision Instruments, No. 138, 1<sup>st</sup> Floor, 4th Main Road,  
Rajajinagar Industrial Town, Bangalore, Karnataka

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

**Certificate Number** CC-2753

**Page** 1 of 4

**Validity** 22.06.2018 to 21.06.2020

**Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>				
1.	External Micrometer (Analog/Digital) LC: 1 $\mu$ m	Up to 100mm Above 100mm Up to 200mm Above 200mm Up to 300mm	3.0 $\mu$ m 4.0 $\mu$ m 5.0 $\mu$ m	Using Gauge Blocks / Long Gauge Blocks By Comparison based on IS: 2967
2.	Depth Micrometer (Analog/Digital) LC: 1 $\mu$ m	Up to 100mm Above 100mm Up to 200mm	3.0 $\mu$ m 4.0 $\mu$ m	Using Gauge Blocks / Long Gauge Blocks By Comparison based on BS: 6468
3.	Micrometer Setting Rod/ Extension Rod	25 to 100mm Above 100mm Up to 250mm Above 250mm Up to 500mm	3.2 $\mu$ m 4.5 $\mu$ m 6.6 $\mu$ m	Using Caliper Checker, Gauge Blocks & Electronic Comparator By Comparison
4.	Calipers (Vernier / Dial/ Digital ) LC: 10 $\mu$ m	Up to 300mm Above 300mm Up to 600mm	12.0 $\mu$ m 14.0 $\mu$ m	Using Caliper Checker / Gauge Blocks / Long Gauge Blocks By Comparison based on IS: 3651

**Pankaj Varshney**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** HY-Tek Precision Instruments, No. 138, 1<sup>st</sup> Floor, 4th Main Road,  
Rajajinagar Industrial Town, Bangalore, Karnataka

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

**Certificate Number** CC-2753

**Page** 2 of 4

**Validity** 22.06.2018 to 21.06.2020

**Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
5.	Depth Caliper (Vernier / Dial/ Digital ) LC: 10 $\mu$ m	Up to 300mm	12.0 $\mu$ m	Using Caliper Checker Gauge Blocks By Comparison based on IS: 4213
6.	Height Gauge (Vernier / Dial/ Digital) LC: 10 $\mu$ m	Up to 300mm Above 300mm up to 600mm	14.4 $\mu$ m 18.0 $\mu$ m	Using Caliper Checker Gauge Blocks / Long Gauge Blocks By Comparison based on IS: 2921
7.	Plunger Dial Gauge (Analog/Digital) LC: 1 $\mu$ m LC: 10 $\mu$ m	Up to 10mm Up to 25mm	1.7 $\mu$ m 8.8 $\mu$ m	Using Dial Calibration Tester By Comparison based on IS: 2092
8.	Lever Type Dial Gauge (Analog/Digital) LC: 1 $\mu$ m LC: 10 $\mu$ m	Up to 0.14mm Up to 2mm	2.0 $\mu$ m 6.0 $\mu$ m	Using Dial Calibration Tester By Comparison based on IS: 11498
9.	Bore Gauge (Analog/Digital) (Transmission Only) LC: 1 $\mu$ m	Dial Range: $\varnothing$ 10-500mm Probing Range: Up to 2mm	3.0 $\mu$ m	Using Dial Calibration Tester By Comparison based on JIS: B 7515

**Pankaj Varshney**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** HY-Tek Precision Instruments, No. 138, 1<sup>st</sup> Floor, 4th Main Road,  
Rajajinagar Industrial Town, Bangalore, Karnataka

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

**Certificate Number** CC-2753

**Page** 3 of 4

**Validity** 22.06.2018 to 21.06.2020

**Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
10.	Plain Plug Gauge	$\varnothing$ 3 to 50mm Above $\varnothing$ 50 Up to 100mm Above $\varnothing$ 100 Up to 200mm	3.2 $\mu$ m 3.6 $\mu$ m 4.5 $\mu$ m	Using Floating Carriage Dia. Measuring M/c (FCDM) & Electronic Comparator By Comparison based on IS: 3455
11.	Cylindrical Measuring Pin	Up to $\varnothing$ 20mm	3.3 $\mu$ m	Using Gauge Block & FCDM By Comparison based on IS: 11103
12.	Feeler Gauge	0.03 to 1mm	6.0 $\mu$ m	Using Digital Micrometer By Comparison based on IS 3179
13.	Bevel Protractor LC: 5 Arc Min	0-360 $^{\circ}$	8.1 Arc Min	Using Angle Gauge Blocks By Comparison based on IS 14239
14.	Snap Gauge	2.5 to 100mm Above $\varnothing$ 100 Up to 200mm	4.0 $\mu$ m 6.0 $\mu$ m	Using Gauge Blocks By Comparison based on IS: 3455
15.	Dial Thickness Gauge LC: 10 $\mu$ m	Up to 25mm	6.4 $\mu$ m	Using Gauge Blocks By Comparison based on IS: 2092
16.	Internal Micrometer – Caliper Type LC: 10 $\mu$ m	25 mm to 200mm	6.0 $\mu$ m	Using Gauge Blocks / Long Gauge Blocks & Gauge Block Accessories By Comparison based on IS:2966

**Pankaj Varshney**  
Convenor

**Avijit Das**  
Program Manager

**Laboratory** HY-Tek Precision Instruments, No. 138, 1<sup>st</sup> Floor, 4th Main Road,  
Rajajinagar Industrial Town, Bangalore, Karnataka

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

**Certificate Number** CC-2753

**Page** 4 of 4

**Validity** 22.06.2018 to 21.06.2020

**Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
17.	Micrometer Head (Analog/Digital) LC.: 1 $\mu$ m	Up to 25mm	2.4 $\mu$ m	Using Gauge Blocks & Precision Dial Indicator By Comparison based on IS: 9483
18.	Pistol Caliper LC: 100 $\mu$ m	0 to 150mm	70 $\mu$ m	Using Gauge Blocks By Comparison
19.	Stick / Tubular Micrometer LC: 10 $\mu$ m	25 to 300mm Above 300mm Up to 600mm	7.2 $\mu$ m 10.0 $\mu$ m	Using Gauge Blocks / Caliper Checker By Comparison based on IS:2966
20.	Dial Caliper Gauge (External) LC: 10 $\mu$ m	5 mm to 150mm	7.0 $\mu$ m	Using Gauge Blocks By Comparison based on IS: 2092
21.	Thread Plug Gauge	$\varnothing$ 2 to 100mm	4.3 $\mu$ m	Using Floating Carriage Dial. Measuring M/c (FCDCM), Cyl. Setting Master By Comparison based on IS: 2334-2001, IS: 4218

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

\$ Only in Permanent Laboratory

\* Only for Site Calibration

**Pankaj Varshney**  
Convenor

**Avijit Das**  
Program Manager