

Laboratory **Gee Kay Engineering,103-C, Gokul Galaxy, Thakur Complex, Kandivali (E), Mumbai, Maharashtra**

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

Certificate Number **CC-2665 (In lieu of C-0156)** **Page** **1 of 2**

Validity **14.06.2018 to 13.06.2020** **Last Amended on -**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Surface Plate* Flatness L.C. 1µm/m Base Length 125 mm	1000 mm x 1000 mm	$0.4 \times \sqrt{\frac{L+W}{100}}$	Using Electronic Level by Comparison Method as per IS 12937
	L.C. 1µm/m Base Length 225 mm	Above 1000 mm x 1000 mm	$0.7 \times \sqrt{\frac{L+W}{200}}$ L & W in mm	
	L.C. 20µm/m Base Length 125 mm	1000mm x 1000 mm	$2.4 \times \sqrt{\frac{L+W}{100}}$	Using Precision Level by Comparison Method as per IS 12937
	L.C. 20µm/m Base Length 225 mm	Above 1000 mm x 1000 mm	$4.3 \times \sqrt{\frac{L+W}{200}}$ L & W in mm	

Vishal Shukla
Convenor

Avijit Das
Program Director

Laboratory

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
2.	Box Angle Plate / Angle Plate* Flatness L.C. 20 μ m/m; Base Length 125 mm Parallelism Squareness	450mm x300mm x 350 mm	$2.4 \times \sqrt{\frac{L+W}{100}}$ 8.0 μ m 8.0 μ m	Using Precision Level by Comparison Method Using Gauge Block Dial Indicator L.C.1 μ m by Comparison Method
3.	Straight Edge* Straightness L.C. 20 μ m/m; Base Length 125 mm L.C. 20 μ m/m; Base Length 225 mm	Up to 1000 mm Above 1000 mm	$2.4 \times \sqrt{\frac{L}{100}}$ $4.3 \times \sqrt{\frac{L}{200}}$ L in mm	Using Precision Level by Comparison Method
4.	Parallelism *	Up to 1000 mm Above 1000 mm	8.0 μ m	Using Gauge Block Dial Indicator L.C.1 μ m & Surface Plate by Comparison Method
5.	Bench Centre* Co – Axiality Parallelism	300 mm to 1500 mm	$5.6 \times \sqrt{\frac{E \max}{300}}$ H in mm 5.8 mm	Using Taper Mandrel; Plain Mandrel & Dial Indicator L.C.1 μ m

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

*Only for Site Calibration

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