

Laboratory L.G.B. Metrology Calibration Lab, 6/16/13, Krishnarayapuram Road,
Ganapathy, Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2208

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Validity 16.06.2018 to 15.06.2020

Last Amended on

22.06.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	Temperature Simulation # K – Type J – Type T – Type R – Type S – Type E – Type B – Type RTD-PT100	 (-) 200°C to 1200°C (-) 200°C to 600°C (-) 240°C to 350°C 0°C to 1200°C 0°C to 1200°C (-) 240°C to 1000°C 600°C to 1200°C (-) 200°C to 750°C	 1.03°C 0.75°C 1.06°C 1.79°C 1.92°C 0.90°C 1.86°C 0.19°C	 Using Multifunction Calibrator Beamex, MC 2 By Direct Method

Vishal Shukla
Convenor

Avijit Das
Program Manager

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<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	External Micrometer ^s (Mech/Digital) L.C.:0.001mm L.C.:0.01mm	0 to 100mm 100 mm to 200 mm 200 mm to 300 mm	1.45 μ m 4.44 μ m 4.65 μ m	Using Gauge Block Set by Comparison Method as per IS 2967
2.	Depth Micrometer ^s L.C.:0.01mm	0to 25 mm	3.54 μ m	Using Gauge Block Set by Comparison Method as per JIS B7544
3.	Vernier Caliper ^s (Mech/Digital/Dial) L.C.:0.01mm	0 to 300 mm	8.73 μ m	Using Gauge Block & caliper checker by Comparison Method as per IS 3651(part II)
4.	Height Gauge ^s (Mech/Digital/Dial) L.C.:0.01mm	0 to 300 mm	8.51 μ m	Using Gauge Block & caliper checker by Comparison Method as per IS 2921
5.	Plunger Dial Gauge ^s (Digital/Analog) L.C.:0.001mm	0 to 10 mm	0.93 μ m	Using Dial Gauge Calibrator by Comparison Method as per IS 2092

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6.	Lever Type Dial Gauge ^s L.C.:0.01mm L.C.:0.001mm L.C.:0.002mm	0 to 1 mm 0 to 0.14 mm 0 to 0.2mm	4.30 μ m 0.73 μ m 0.95 μ m	Using Dial Gauge Calibrator & Dial Tester by Comparison Method as per IS 11498
7.	Bore Dial Gauge ^s (Transmission only) L.C.:0.001mm	Travel 1.5 mm	3.74 μ m	Using Dial Gauge Calibrator & Dial Gauge by Comparison Method as per JIS B7515
8.	Plain Plug Gauge ^s	0.5 to 75mm	1.44 μ m	Using Universal Length Measuring System by Comparison Method as per IS 3455
9.	Pin Gauge ^s	0.5 to 20mm	1.30 μ m	Using Universal Length Measuring System by Comparison Method as per IS 11103
10.	Ring Gauge ^s	2 mm to 100mm	1.90 μ m	Using Universal Length Measuring System by Comparison Method as per IS 3485
11.	LVDI Probe with Indicator ^s L.C.:0.001mm	+/- 5mm	3.12 μ m	Using Slip Gauge with Comparator Stand by Comparison Method

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II. HARDNESS TESTING MACHINE				
1.	Rockwell/Superficial Hardness*	HRA	0.65 HRA	Using Reference Hardness Blocks by Indirect Method as per IS 1586(Part 2)
		HRB	0.99 HRB	
		HRC	0.51 HRC	
		HR15N	0.78 HR15N	
2.	Vickers Hardness*	HV 5	2.5 %	Using Reference Hardness Blocks by Indirect Method as per IS 1501(Part 2)
		HV 10	1.9 %	
		HV 0.2	4.6 %	
		HV 1	3.0 %	
3.	Brinell Hardness*	HBW 5/750	1.9 %	Using Reference Hardness Blocks by Indirect Method as per IS 1586(Part 2)
		HBW 10/3000	1.3 %	
III. PRESSURE INDICATING DEVICES				
1.	Hydraulic Pressure Gauges ^s	0 to 5883990 Pa	0.55 % rdg	Using Pressure Calibrator by comparison Method as per DKD R6-1
		0 to 68646550 Pa	0.19 % rdg	Using Pressure Calibrator by comparison Method as per DKD R6-1

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2.	Pneumatic Pressure Gauges [§]	0 to 1961330 Pa 0 to 20000 Pa	0.13 % rdg 0.31 % rdg	Using Pressure Calibrator with uncertainty of 0.012% by comparison Method as per DKD R6-1

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<u>THERMAL CALIBRATION</u>				
1.	TEMPERATURE			
1.	RTD/ Thermo couple with and without Indicator #	(-)20°C to 140°C >140°C to 1150°C	0.6°C 3.1°C	Using RTD & Beamax MC2 Calibrator in Dry Block Bath by Comparison method

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

\$ Only in Permanent Laboratory

* Only for Site Calibration

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