

Laboratory	Best Standards Technologies Pvt. Ltd., Door No. 49, Moorthy Nagar, 3rd Street, Chettiar Agaram, Porur, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	20.10.2014
Certificate Number	C-0854	Valid Until	19.10.2016
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. PRESSURE AND VACUUM			
1. DIGITAL AND DIAL VACUUM INDICATOR AND TRANSDUCERS[#]	-0.9 to 0 bar	0.27% rdg	Using Vacuum calibrator by Comparison Method As per DKD R 6-1
2. PNEUMATIC PRESSURE Digital and Dial Pressure Indicators, Differential Pressure indicators & Manometers^{\$}	0 to 1 bar	0.10% rdg	Using Pressure calibrator by Comparison Method DKD R 6-1 & 2
3. PNEUMATIC PRESSURE Digital and Dial Pressure Indicators and Transducer[*]	1 to 40 bar	0.20% rdg	Using Pressure calibrator by Comparison Method DKD R 6-1
3. HYDRAULIC PRESSURE Digital and Dial Pressure Indicators, Pressure Sensors and Transducer[#]	1 to 350 bar	0.14% rdg	Using hydraulic Pressure calibrator by Comparison Method DKD R 6-1
	350 to 700 bar	0.06 % rdg	
II. MASS			
1. MASS^{\$} Standard weights, Test weights, Working weights^{\$}	1 mg	0.03 mg	Using standard reference weights (Class F1 and F2). As per OIML R 111
	2 mg	0.03 mg	
	5 mg	0.03 mg	
	10 mg	0.03 mg	
	20 mg	0.03 mg	
	50 mg	0.04 mg	
	100 mg	0.12 mg	
	200 mg	0.12 mg	
	500 mg	0.12 mg	
	1 g	0.12 mg	
	2 g	0.12 mg	
	5 g	0.12 mg	
10 g	0.12 mg		
20 g	0.13 mg		

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	50 g	0.14 mg	
	100 g	0.28 mg	
	200 g	0.28 mg	
	500 g	11.59 mg	
	1000 g	117.05 mg	
2. WEIGHING BALANCE* (Weighing balance, Analytical balance, Moisture balance, Top balance scale, Spring balance, Platform Scale, Mechanical balance, Counting balance, Bench scale, Top loading balance)	1mg to 200g 200g to 1000g 1kg to 5kg 5kg to 100kg 100kg to 300kg	0.39 mg 0.1g 0.6 g 0.7 g 145 g	Using standard weights (Class F1 and F2) As per OIML 76 Using standard Weights (M1) as per OIMLR-76
III. VOLUME			
1. PIPETTES, BURETTES	100 μ l to 1000 μ l 1ml to 20 ml	0.49 μ l to 1.39 μ l 0.06 ml	Using weighing balance As per ISO 8655-6 & ISO 4787
2. VOLUME FLASKS, GRADUATED JAR DISPENSER^s	20 ml to 200 ml 200 ml to 1000 ml	0.07 ml 0.25 ml	
IV. ACCELERATION AND SPEED			
1. RPM[#] Mechanical Tachometer, RPM Indicators, Centrifuge (Non Contact Type)	60 RPM to 1,00000 RPM	3% rdg to 0.6% rdg	Using Tachometer by comparison method as per SANAS Specification TR 45-01

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V. TORQUE				
1. HAND TORQUE TOOLS [§] (TYPE –I & TYPE –II) (DIAL/DIGITAL TORQUE WRENCHES/ CLICK TYPE TORQUE TOOL TORQUE SCREW DRIVERS [§])	0.1Nm to 2 Nm	0.90 % rdg	Using Torque sensor as per ISO 6789	
	2Nm to 100 Nm	1.20 % rdg		
	100Nm to 1000 Nm	0.60 % rdg		
VI. ACCOUSTICS				
1. SOUND PRESURE LEVEL Sound Level Meters and Sound level Calibrators [§]	94 dB	0.89 dB	Using Sound level Calibrators & Meters as per IS 15575 / OIML R- 58	
	114 dB	0.91 dB		
VII. DIMENSION				
1 VERNIER CALIPER [§] (Analog/Dial/Digital) LC: 0.01mm ^Φ	0 to 300 mm	8.0 μ m	Using Caliper Checker Slip gauge '0' grade & Length Bar	
	0 to 600 mm	9.0 μ m		
	L.C.: 0.01 mm	0 to 1500 mm		30.0 μ m
	LC: 0.02 mm	0 to 2000 mm		32.0 μ m
2. ELECTRONIC HEIGHT GAUGE (2D) [§] LC: 0.0001 mm ^Φ	0 to 1000 mm	19.0 μ m	Using Slip gauge '0' grade & Length Bar	

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3. VERNIER HEIGHT GAUGE[§] (Analog/Dial/Digital) LC: 0.01mm ^Φ	0 to 300 mm 0 to 1000 mm	8.0 μ m 12.0 μ m	Using Caliper Checker Slip gauge '0' grade & Length Bar
4. VERNIER DEPTH CALIPER[§] (Analog/Dial/Digital) LC: 0.01mm ^Φ	0 to 150 mm 0 to 1000 mm	8.0 μ m 12.0 μ m	Using Caliper Checker Slip gauge '0' grade & Length Bar
5. VERNIER INSIDE CALIPER[§] (Analog/Dial/Digital) LC: 0.01 mm ^Φ	0 to 600 mm	9.0 μ m	Using Caliper Checker
6. TRY SQUARE[§] (Flatness & Parallelism of Stock, Squareness)	Upto 450 mm	5.0 μ m	Using lever dial gauge
7. SETTING ROD[§]	Upto 500 mm	5.0 μ m	Using Slip gauge '0' grade & Length Bar Lever Dial Gauge
8. INSIDE MICROMETER[§] (Caliper Type) LC: 0.001 mm LC: 0.01 mm	5 mm to 50 mm 5 mm to 100 mm	1.2 μ m 7.0 μ m	Using Slip gauge '0' grade
9. INSIDE MICROMETER[§] (Stick/Tubular Type) LC: 0.001 mm ^Φ	13 mm to 2100 mm	19.0 μ m	Using Slip gauge '0' grade Lever Dial Gauge
10. DIAL GAUGE STAND, COMPARATOR STAND[§] (Flatness of Base)	0 to 300 mm	3.3 μ m	Using Lever Dial Gauge Surface Plate

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11. DIAL DEPTH GAUGE ^{\$} LC:0.001mm ^Ø	0 to 100 mm 0 to 300 mm	1.5 μ m 3.1 μ m	Using Slip gauge '0' grade & Length Bar
12. DIAL CALIPER GAUGE ^{\$} INSIDE/OUTSIDE L. C. :0.01 mm L. C. : 0.025 mm	0 to 50 mm 0 to 100 mm	6.0 μ m 15.0 μ m	Using Slip gauge '0' grade
13. LVDT/ELECTRONIC PROBE ^{\$} LC: 0.0001 mm ^Ø	0 to 100 mm	1.0 μ m	Using Slip gauge '0' grade
14. SNAP GAUGE/GAP GAUGE ^{\$}	0 to 50 mm 0 to 100 mm 0 to 500 mm	3.5 μ m 3.6 μ m 5.0 μ m	Using Slip gauge '0' grade
15. MEASURING TAPE ^{\$}	Upto 50 m	802 \sqrt{L} μ m L in Meter	Using Steel Rule Calibrator
16. MEASURING PIN GAUGE ^{\$}	0 to 25 mm	1.8 μ m	Using Standard Micrometer
17. PLAIN PLUG GAUGE ^{\$}	0 to 25 mm 25 mm to 200 mm	1.5 μ m 7.3 μ m	Using Standard Micrometer Slip gauge '0' grade Lever Dial Gauge
18. PLAIN RING GAUGE ^{\$} (Industrial only)	5 mm to 50 mm	10.0 μ m	Using Standard Inside Micrometer
19. FEELER GAUGE ^{\$}	0 to 1 mm 0 to 2 mm	3.7 μ m 3.7 μ m	Using Standard Inside Micrometer
20. V BLOCK ^{\$} (Flatness, Parallelism)	0 to 200 mm	2.5 μ m	Using Lever Dial Gauge

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21. LIMIT GAUGE, SLOT GAUGE, WIDTH GAUGE, DEPTH GAUGE ^{\$}	Upto 200 mm	20.0 μ m	Using Standard Micrometer Slip gauge '0' grade Lever Dial Gauge
22. STRAIGHT EDGE/PARALLEL BAR ^{\$}	Upto 1000 mm	9.6 μ m	Using Lever Dial Gauge Surface Plate
23. FOILS ^{\$}	0 to 1000 μ m	1.5 μ m	Using Standard Micrometer (25*0.001)mm
24. ELECTRONIC HEIGHT GAUGE (2D)* LC: 0.0001mm LC: 0.001mm	0 to 600mm 0 to 1000mm	11.0 μ m 19.0 μ m	Using Slip gauge '0' grade Length Bar
25. CO-ORDINATE MEASURING MACHINE(CMM) *	2000 mm 500 mm	38 μ m 10 μ m	Using Gauge Block & Long Gauge
26. SURFACE PLATE* (Granite/cast iron)	3500mm x 2600mm	$4x \sqrt{\frac{L+W}{200}}$ μ m	Using Sprit Level L. C.: 20 μ m/m
27. PROFILE PROJECTOR/VIDEO MEASURING MACHINE* .Linear Scales .Angular Scale .Magnification	300 mm x 200 mm 360° Upto 100 X	14.0 μ m 0.13%	Using Gauge Block, Long Gauge Block

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28. MICROSCOPE (Stroke and Travelling) Linear Only*	50 mm 300 mm	1.214 μ m 5.740 μ m	Gauge Block & Glass Graticule

* 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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