Laboratory		Shreta Lab Tech, 26, Corporation Complex, Patel Road, Ramnagar, Coimbatore, Tamil Nadu				
Aco	creditation Standard	ISO/IEC 17025: 2005				
Dis	cipline	Mechanical Calibration	ı	Issue Date	11.09.2015	
Cer	tificate Number	C-0732 24.09.2015		Valid Until 10.09.20		
Las	st Amended on			Page	1 of 6	
	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measuremer Capability (±)	ent Remarks		
I.	DIMENSION					
1.	CALIPERS <sup>\$</sup> (Vernier /Dial / Digital) LC: 0.01 mm <sup>Φ</sup> LC: 0.02 mm	Upto 1000 mm 1000 mm to 2000 mm	14.4 μm 20.4 μm	Using G Calij	auge Blocks & ber Checker by	
2.	DEPTH GAUGE <sup>\$</sup> (Vernier/Dial/Digital) LC: 0.01 mm <sup>Φ</sup>	Upto 1000 mm	13.1 μm	Comparison Method Using Gauge Blocks & Long Gauge Blocks by		
3.	EXTERNAL MICROMETER <sup>\$</sup> LC:0.001 mm LC:0.01 mm	Upto 600 mm Upto 1200 mm	2.7 μm 12.7 μm	Using C Compa	auge Blocks by arison Method	
4.	DEPTH MICROMETER <sup>\$</sup> LC:0.01 mm	Upto 300 mm	10.2 μm	Using Gauge Blocks by Comparison Method		
5.	INTERNAL /STICK / TUBULAR MICROMETERS <sup>\$</sup> LC:0.01 mm LC:0.001 mm	Upto 800 mm Upto 300 mm	7.3 μm 7.2 μm	Using ( Mic Comp	Gauge Block & cro Dial by arison Method	
6.	PLUNGER DIAL GAUGES <sup>\$</sup> LC: 0.001 mm LC:0.01 mm	Upto 5 mm Upto 100 mm	1.1 μm 6.3 μm	Usin Compa	ng ULM by arison Method	
7.	LEVER DIAL GAUGE LC:0.001 mm LC:0.002 mm LC:0.01 mm	\$ Upto 0.14 mm Upto 0.2 mm Upto 1 mm	1.2 μm 1.6 μm 6.3 μm	Usin Compa	ng ULM by arison Method	

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8.	DIAL BORE GAUGE <sup>\$</sup> (Transmission error)	Upto 1 mm	1.8 µm	Using ULM by Comparison Method
9.	VERNIER HEIGHT GAUGE / DIAL / DIGITAL <sup>\$</sup> LC:0.01 mm <sup>Φ</sup>	Upto 1000 mm	11.3 µm	Using Gauge Blocks / Length bars by
10.	SNAP GAUGE <sup>\$</sup>	Upto 600 mm	5.2 μm	Comparison Method Using ULM / Gauge Blocks / Length bars by Comparison Method
11.	FEELER GAUGE <sup>\$</sup>	Upto 1 mm	1.9 µm	Using ULM / Gauge Blocks / Length bars by Comparison Method
12.	CYLINDRICAL MEASURING PINS / WIRES <sup>\$</sup>	Upto 20 mm	2.0 µm	Using ULM by Comparison Method
13.	BEVEL PROTRACTOR / COMBINATION SET <sup>\$</sup>	0°-90°- 0°	3 min of arc	Using Angle Gauge by Comparison Method
14.	PLAIN / SEGMENTAL PLUG GAUGE <sup>\$</sup>	1 mm to 500 mm	3.6 µm	Using ULM by Comparison Method
15.	TAPER PLAIN PLUG GAUGE <sup>\$</sup> (Diameter Only)	1 mm to 300 mm	2.1 µm	Using ULM by Comparison Method
16.	THREAD PLUG GAUGE <sup>\$</sup> (For Effective Diameter Only)	1 mm to 400 mm	2.7 µm	Using ULM by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
17.	TAPER THREAD PLUG GAUGE <sup>\$</sup>	1 mm to 280 mm	3.0 µm	Using ULM by Comparison Method
18.	PLAIN MASTER SETTING RING GAUGE <sup>\$</sup>	1 mm to 400 mm	1.9 µm	Using ULM by Comparison Method
19.	TAPER PLAIN RING GAUGE <sup>\$</sup>	1 mm to 100 mm	2.4 µm	Using ULM by Comparison Method
20.	THREAD RING GAUGE <sup>\$</sup>	1 mm to 320 mm	2.7 µm	Using ULM by Comparison Method
21.	RADIUS GAUGE <sup>\$</sup>	Upto 50mm	5.2 µm	Using Video Measuring System by Comparison Method
22.	PITCH GAUGE <sup>\$</sup>	Upto 6 mm	3.8 µm	Using Video Measuring System by Comparison Method
23.	INSIDE DIAL CALIPER <sup>\$</sup> LC:0.001 mm <sup>Φ</sup>	Upto 200 mm	7.0 µm	Using ULM by Comparison Method
24.	2D – HEIGHT MASTER <sup>\$</sup> LC:0.0001 mm <sup>Φ</sup>	Upto 800 mm	1.4 µm	Using Length bars & Gauge Blocks by Comparison Method
25.	SURFACE PLATE <sup>\$</sup>	3000 mm X 3000 mm	$3.0\sqrt{\frac{L+W}{100}}$ µm	Using Spirit Level by Comparison Method
26.	PISTOL CALIPER <sup>\$</sup> LC:0.1 mm	Upto 300 mm	70.2 µm	Using Gauge Blocks by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measuremen Capability (±)	ent Remarks		
27.	UNIVERSAL LENGH MEASURING MACHINE <sup>\$</sup>					
	LC:0.0001 mm	Upto 150 mm	$0.3 \ \frac{+L}{400}$	Using G Master I Compa	Using Gauge Blocks & Master Ring Gauges by Comparison Method	
28.	LENGTH BARS <sup>\$</sup>	Upto 500 mm	2.6 µm	Usir Len Compa	Using ULM & Length bars by Comparison Method	
29.	SETTING ROD <sup>\$</sup>	Upto 100 mm Above 100 mm to 500 mm Above 500 mm to 1200 mm	1.6 μm 1.9 μm 4.2 μm	Using ULM , Slip Gauge & Length Bars by Comparison Method		
30.	V-BLOCK <sup>\$</sup> Flatness, Parallelism, Symmetricity	150 mm	4.2 μm 6.0 μm	Using T Lever I Compa	Cest Mandrel & Dial Gauge by arison Method	
31.	BENCH CENTRE <sup>\$</sup> Parallelity Co-axiality centre	Centre Height 300mm admin between centre's 300 mm	6.0 µm	Using Mandrel / Precision Dial Indicator by Comparison Method		
32.	MICROMETER HEAD <sup>\$</sup>	Upto 100 mm	1.5 μm	Usir Compa	ng ULM by arison Method	
33.	SINE BAR <sup>\$</sup>	Upto 200 mm	19 Arc Sec	Using Angle Bloc Compa	Slip Gauge / k & Sine Table by arison Method	
34.	COMPARATOR STAND <sup>\$</sup> (Flatness Only)	Upto 300 mm	4.3 μm	Using L Compa	VDT Probe by arison Method	

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35.	SCALE <sup>\$</sup>	Upto 1000 mm	0.3 µm	Using Video Measuring Machine by Comparison Method
36.	SPIRIT LEVEL <sup>\$</sup> SENSITIVITY : 0.02 mm / mtr	Upto 300 mm	20 μm / mtr	Using Electronic Level / Sine Table by Comparison Method
37.	MEASURING TAPE <sup>\$</sup>	Upto 5000 mm	-	Using Video Measuring Machine by Comparison Method
38.	DIGITAL INDICATOR / LVDT / ELECTRONIC PROBE <sup>\$</sup>	Upto 10 mm	0.74 µm	Using ULM by Comparison Method
39.	BENCH CENTRE *	Upto 500 mm	5.0 µm	Using Master Mandrel by Comparison Method
40.	PROFILE PROJECTOR / TOOL MICROSCOPE / VISION MEASURING MACHINE *			
	LINEAR ANGULAR MAGNIFICATION	200 mm X 150 mm 3600 Upto 50 X	4.0 μm 17 Arc Sec 4.0 μm	Using Gauge Blocks & Angle Gauge Blocks by Comparison Method
41.	SURFACE PLATE *	3000 mm X 3000 mm	$3.0\sqrt{\frac{L+W}{100}}$ µm	Using Spirit Level by Comparison Method

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measureme Capability (±)	nt R	emarks	
II.	PRESSURE & VACUUM					
1.	HYDRAULIC DIGITAL & DIAL PRESSURE GAUGES/ PRESSURE TRANSMITTERS TRANSDUCERS <sup>#</sup>	0 to 1000 kg/cm <sup>2</sup>	0.7 % rdg.	Using Hydraulic comparisor screw pump & Digital Indicator by Comparison Method		
III.	TORQUE					
1.	HAND TORQUE TOOLS, TORQUE WRENCHES <sup>\$</sup> TYPE- I (Class A,B,C,) & TYPL- II (Class A & B)	300 Nm to 3000 Nm	1.4 % rdg	Using Torq Transduce F Compa	ue Calibration with er & Indicator and ixture by arison Method	

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

<sup>\$</sup>Only in Permanent Laboratory

\*Only for Site Calibration

<sup>Ф</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.

<sup>#</sup> The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.