

Laboratory	Swaptul Enterprises, 4, Vihar Apartment, Yashwant Nagar, Telco Road, Pimpri, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Mechanical Calibration	Issue Date	19.03.2015
Certificate Number	C-0901	Valid Until	18.03.2017
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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ($\pm$)	Remarks
I. DIMENSION			
1. SNAP GAUGE ^{\$}	Upto 200 mm Upto 500 mm	1.6 μ m 3.2 μ m	Using Slip Gauge Set, Long Slips
2. PLUG GAUGE/PADDLE GAUGE/OD MASTER/ CYLINDRICAL SETTING MASTER/WIDTH GAUGE/HEIGHT BLOCK ^{\$}	Upto 500 mm	5.9 μ m	Using Slip Gauge Set, Plunger Type Dial Gauge, Surface Plate, Long Slips
3. PLUNGER TYPE DIAL GAUGE ^{\$}			
L.C. 0.01 mm ^Φ	0 to 25 mm	5 μ m	Using Dial Calibration Tester
L.C. 0.001 mm ^Φ	0 to 5 mm	1.3 μ m	Using LMM
L.C. 0.0005 mm	0 to 0.05 mm		
4. VARIOUS TYPES OF EXTERNAL MICROMETERS ^{\$}			
L.C. 0.001 mm ^Φ	0 to 100 mm	1 μ m	Using Slip Gauge Set
	100 mm to 500 mm	2.5 μ m	
	500 mm to 1000 mm	5.4 μ m	

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5. MICROMETER SETTING ROD ^{\$}	Upto 800 mm	6.9 μ m	Using Slip Gauge Set, Plunger Type Dial Gauge, Surface Plate, Long Slips
6. VARIOUS TYPES OF CALIPERS ^{\$} L.C. 0.01 mm ^Φ	Upto 300 mm Upto 600 mm Upto 1000 mm	12.7 μ m 13.1 μ m 13.8 μ m	Using Caliper Checker
7. HEIGHT GAUGE ^{\$} L.C. 0.01 mm ^Φ	Upto 600 mm Upto 1000 mm	14.3 μ m 16.5 μ m	Using Caliper Checker, Surface Plate
8. FEELER GAUGE ^{\$}	Upto 1 mm	4.9 μ m	Using Plunger Type Dial Gauge, Surface Plate
9. PIN GAUGE ^{\$}	Upto 20 mm	5 μ m	Using Slip Gauge Set, Plunger Type Dial Gauge, Surface Plate
10. BORE GAUGE ^{\$}	For 1mm transmission	4.8 μ m	Using Dial Calibration Tester, Plunger Type Dial Gauge

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11. LEVER TYPE DIAL GAUGE^{\$}			
L.C. 0.01 mm	Upto 1 mm	5 μ m	Using Dial Calibration Tester
L.C. 0.001 mm	0.014 mm	1 μ m	Using LMM
L.C. 0.002 mm	0.2 mm		
12. DEPTH VERNIER^{\$}			Using Slip Gauge Set, Caliper Checker
L.C. 0.01 mm ^{Φ}	Upto 300 mm Upto 1000 mm	12.8 μ m 14.1 μ m	
13. INSIDE MICROMETER HEAD^{\$}			Using Plunger Type Dial Gauge, Slip Gauge Set
L.C. 0.01 mm	Upto 25 mm	7.6 μ m	
INSIDE MICROMETER WITH EXTENSION^{\$}			Using Caliper Checker, Slip Gauge Set
L.C. 0.01 mm	Upto 1500 mm	12.4 μ m	
14. TAPER PLUG GAUGE^{\$}	Upto 100 mm	3.5 μ m	Using LMM
15. THREAD PLUG GAUGE^{\$}	Upto 100 mm	3.9 μ m	Using LMM
16. TAPER THREAD PLUG GAUGE^{\$}	Upto 300 mm	3.9 μ m	Using LMM

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17. RING GAUGE ^{\$}	Upto 300 mm	6.3 μ m	Using LMM
18. TAPER RING GAUGE ^{\$}	Upto 100 mm	3.8 μ m	Using LMM
19. THREAD RING GAUGE ^{\$}	Upto 100 mm	3.5 μ m	Using LMM
20. TAPER THREAD RING GAUGE ^{\$}	Upto 100 mm	3.5 μ m	Using LMM
21. MICROMETER HEAD ^{\$} L.C. 0.001 mm ^{$\Phi$}	0 to 50 mm	3.6 μ m	Using LMM
22. DEPTH MICROMETER ^{\$} L.C. 0.001 mm ^{$\Phi$}	0 to 300 mm	1.9 μ m	Using Slip Gauge Set, Long Slips, Mice Check set
23. PISTOL CALIPER ^{\$} 0.1 mm	0 to 50 mm	75.7 μ m	Using Slip gauge Set
24. DIAL SNAP GAUGE ^{\$}	Upto 100 mm	4.8 μ m	Using Slip Gauge Set, Plunger Dial
25. 2 PIN DIAL/INSIDE GROOVE CALIPER ^{\$} L.C. 0.01 mm ^{$\Phi$}	Upto 155 mm	7.6 μ m	Using Slip gauge Set

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26. DIAL THICKNESS GAUGE [§] L.C. 0.01 mm	0 to 25 mm	7.6 μ m	Using Slip gauge Set
27. PROBE WITH DRO [§] L.C. 0.0001 mm	0 to 25 mm	0.8 μ m	Using Slip gauge set, Surface Plate
28. FOILS [§]	Upto 1.5 mm	3 μ m	Using Digital Micrometer
29. ELECTRONIC HEIGHT GAUGE [*] L.C. 0.0001 mm ^Φ	Upto 1000 mm	9.1 μ m	Using Long Slip, Slip Gauge Set

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

[§]Only in Permanent Laboratory

^{*}Only for Site Calibration

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

^Φ 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.

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