

Laboratory	Esya Engineering Pvt. Ltd., 09-B, AKCET Tower, TSD Nagar Main Road, Arumbakkam, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	28.08.2016
Certificate Number	C-0655	Valid Until	27.08.2018
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION (Basic Measuring Instrument, Gauge etc.)			
1. CALIPER^{\$} (Vernier / Dial / Digital) L.C.: 0.01mm	Upto 600 mm 600 mm to 1000 mm	12.5 μ m 16.0 μ m	Using Gauge Blocks, Caliper Checker and Long Gauge Blocks
2. DEPTH GAUGE^{\$} (Vernier / Digital) L.C.: 0.01 mm	Upto 300 mm	8.3 μ m	Using Grade '0' Gauge Blocks
3. EXTERNAL MICROMETER^{\$} L.C.: 0.001 mm ^{$\Phi$}	Upto 100 mm 100 mm to 300 mm 300 mm to 500 mm	2.7 μ m 4.7 μ m 6.8 μ m	Using Slip Gauge and Long Gauge Blocks
4. INTERNAL / STICK MICROMETER^{\$} L.C.: 0.01 mm	Upto 200 mm	7.0 μ m	Using Gauge Blocks and Slip Gauge Accessories Set
5. DEPTH MICROMETER^{\$} L.C.: 0.001 mm	Upto 300 mm	4.3 μ m	Using Grade '0' Gauge Blocks
6. PLUNGER DIAL GAUGE^{\$} L.C.: 0.001 mm ^{$\Phi$}	Upto 50 mm	3.7 μ m	Using Dial Calibration Tester
7. LEVER DIAL^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	Upto 0.2 mm Upto 1 mm	3.0 μ m 4.5 μ m	Using Dial Calibration Tester
8. DIAL BORE GAUGE^{\$} Span Diameter: (10 to 400) mm L.C.: 0.001 mm	Transmission Range Upto 1.5 mm	5.0 μ m	Using Dial Calibration Tester
9. DIAL CALIPER / THICKNESS GAUGE^{\$}	Upto 50 mm	3.5 μ m	Using Gauge Blocks
10. HEIGHT GAUGE^{\$} (Vernier / Dial / Digital) L.C.: 0.01 mm	Upto 600 mm	12.6 μ m	Using Grade '0' Gauge Blocks, Long Gauge Blocks

Naveen Jangra
Convenor

Avijit Das
Program Manager

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11. SNAP GAUGE ^{\$}	Upto 250 mm	3.0 μ m	Using ULM
12. FEELER GAUGE ^{\$}	Upto 1 mm	5.0 μ m	Using Digital Micrometer
13. THICKNESS FOILS ^{\$}	Upto 2 mm	1.5 μ m	Using ULM
14. PLAIN PLUG GAUGE ^{\$}	Upto 200 mm 200 mm to 300 mm	2.3 μ m 3.0 μ m	Using ULM and Grade '0' Gauge Blocks
15. CYLINDER SETTING MASTER ^{\$}	Upto 100 mm 100 mm to 200 mm 200 mm to 300 mm	1.5 μ m 2.2 μ m 3.0 μ m	Using Slip Gauge and ULM
16. CYLINDRICAL MEASURING PINS ^{\$}	Upto 20 mm	1.5 μ m	Using ULM
17. THREAD MEASURING WIRES ^{\$}	Upto 6.35 mm	1.5 μ m	Using ULM
18. MICROMETER SETTING RODS ^{\$}	Upto 100 mm 100 mm to 300 mm 300 mm to 475 mm	1.5 μ m 3.0 μ m 4.2 μ m	Using ULM
19. PLAIN / MASTER SETTING RING GAUGE ^{\$}	Upto 100 mm 100 mm to 250 mm	1.5 μ m 3.0 μ m	Using ULM, Master Ring Gauge
20. THREAD RING GAUGE ^{\$}	Upto 100 mm	2.0 μ m	Using ULM, Master Ring Gauge
21. THREAD PLUG GAUGE ^{\$}	Upto 150 mm	2.0 μ m	Using ULM by 3 Wire Method
22. TAPER THREAD PLUG GAUGE ^{\$}	Upto 150 mm	3.5 μ m	Using ULM and Slip Gauge
23. ELECTRONIC / LVDT PROBE ^{\$} L.C.: 0.001 mm	Upto 50 mm	1.3 μ m	Using ULM
24. RADIUS GAUGE ^{\$}	Upto 50 mm	6.7 μ m	Using Video Measuring System

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25. PITCH GAUGE [§]	Upto 20 mm	5.0 μ m	Using Video Measuring System
26. GROOVE / DIAL CALIPER [§] L.C.: 0.001 mm L.C.: 0.01 mm	Upto 10 mm Upto 50 mm	3.5 μ m 5.6 μ m	Using Slip Gauge and Slip Gauge Accessories Setup
27. COMPARATOR STAND [§] (Flatness of Base)	Upto 300 mm	1.3 μ m	Using Gauge Blocks and Lever Dial
28. FLUSH PIN GAUGE [§]	Upto 200 mm	2.0 μ m	Using Slip Gauge and ULM
29. SURFACE PLATE [*]	2500 mm x 1600 mm	$2.5 \sqrt{\frac{L+W}{100}}$ μ m (L and W in mm)	Using Sprit Level
30. SINGLE AXIS MEASURING MACHINE [*] L.C.: 0.0001 mm	Upto 100 mm	1.3 μ m	Using Slip Gauge
31. VIDEO MEASURING MACHINE [*] L.C.: 0.0001 mm	Upto 300 mm	3.0 μ m	Using Linear Glass Scale
32. ELECTRONIC HEIGHT GAUGE [*] L.C.: 0.0001 mm	Upto 600 mm	10.0 μ m	Using Slip Gauge and Long Slip Gauge
II. DIMENSION (Precision Instruments)			
1. PROFILE PROJECTOR/TOOL MAKER MICROSCOPE [*] L.C.: 0.001 mm L.C.: 1' of arc Magnification	Upto 200 mm Upto 360 ° 100 X	3.5 μ m 4' of arc 1.0 %	Using Linear Glass Scale and Angular Glass Scale

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

[§]Only in Permanent Laboratory

^{*}Only for Site Calibration

[®] 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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