

Laboratory	Excel Calibration Private Limited, No. 101, Legend Constructions, No. 3-4-136/101, Barkathpura, Hyderabad, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	10.01.2016
Certificate Number	C-0788	Valid Until	09.01.2018
Last Amended on	10.03.2016	Page	1 of 5

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DINENSION			
1. GAUGE BLOCKS ^{\$} (Grade 0, I & II)	0.5 mm to 10 mm	0.4 μ m	Using Gauge Block Comparator & Slip Gauges
	10 mm to 25 mm	0.6 μ m	
	25 mm to 50 mm	0.7 μ m	
	50 mm to 75 mm	1.0 μ m	
	75 mm to 100 mm	1.2 μ m	
2. EXTERNAL MICROMETER ^{\$} (Digital/ Dial/ Analog) L.C.: 0.001 mm ^o	Upto 25 mm	1.2 μ m	Using Gauge Blocks & Long Gauge Blocks
	25 mm to 500 mm	4.2 μ m	
	L.C.: 0.01 mm	500 mm to 1000 mm	
3. MICROMETER HEAD ^{\$} L.C.: 0.001 mm ^o	Upto 25 mm	1.2 μ m	Using ULM
4. EXTENSION ROD/ LENGTH BAR ^{\$}	Upto 300 mm	3.0 μ m	Using ULM Using Microhite 2D
	300 mm to 1000 mm	14.0 μ m	
5. CALIPERS ^{\$} (Vernier/ Dial/ Digital) L.C.: 0.01 mm (or) Coarser	Upto 300 mm	8.4 μ m	Using Caliper Checker & Long Gauge Blocks
	300 mm to 1000 mm	16.0 μ m	

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Program Manager

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6. DEPTH GAUGE ^{\$} (Vernier/ Dial/ Digital) L.C.: 0.01 mm (or) Coarser	Upto 600 mm	11.0 μ m	Using Caliper Checker & Gauge Blocks & Long Gauge Blocks
7. DEPTH MICROMETER ^{\$} (Vernier/ Dial/ Digital) LC.: 0.01 mm	Upto 100 mm	8.3 μ m	Using Gauge Blocks
8. HEIGHT GAUGE ^{\$} (Vernier/ Dial/ Digital) L.C.: 0.001mm (or) Coarser	Upto 300 mm 300 mm to 600 mm 600 mm to 1000 mm	6.6 μ m 9.3 μ m 13.0 μ m	Using Caliper Checker & Long gauge blocks
9. PLAIN PLUG GAUGE ^{\$}	Upto100 mm	1.3 μ m	Using ULM
10. PIN GAUGE ^{\$}	Upto 20 mm	1.0 μ m	Using ULM
11. THREAD PLUG GAUGE ^{\$} (for effective \emptyset)	Upto 200 mm	3.8 μ m	Using ULM
12. PLAIN RING GAUGE ^{\$}	Upto 100 mm 100 mm to 200 mm	3.4 μ m 3.4 μ m	Using ULM
13. THREAD RING GAUGE ^{\$}	Upto 100 mm 100 mm to 200 mm	3.4 μ m 3.6 μ m	Using ULM

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14. FEELER GAUGE ^{\$}	Upto 2 mm	1.7 μ m	Using ULM
15. DIAL GAUGE - PLUNGER TYPE ^{\$} L.C. : 0.001 mm ^Φ L.C. : 0.01 mm	Upto 50 mm Upto 30 mm	1.9 μ m 6.0 μ m	Using ULM
16. DIAL GAUGE - LEVER TYPE ^{\$} L.C. : 0.001 mm ^Φ	Upto 2 mm	1.1 μ m	Using ULM
17. BORE GAUGE ^{\$} (Transmission only) L.C. : 0.001 mm ^Φ	Upto 2 mm	2.5 μ m	Using ULM
18. INTERNAL/ INSIDE MICROMETER ^{\$} L.C. : 0.01 mm	Upto 300 mm	7.2 μ m	Using ULM
19. EXTERNAL GROOVE GAUGE DIAL ^{\$} L.C.: 0.01 mm ^Φ	Upto 100 mm	6.0 μ m	Using Gauge Blocks
20. BEVEL PROTRACTOR/ COMBINATION SET ^{\$} L.C.: 5 min	Upto 180 °	9.9 arc min	Using Angle Gauge Blocks

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21. DIAL THICKNESS GAUGE ^{\$} L.C.: 0.01mm	Upto 100 mm	8.0 μ m	Using Angle Gauge Blocks
22. ANGLE PLATES ^{\$}	Upto 400 mm	7.1 μ m	Using 2D HG
23. ENGINEERING SQUARE ^{\$}	Upto 400 mm Blade Length	7.2 μ m	Using 2D HG
24. V-BLOCK ^{\$}	Upto 400 mm	10.0 μ m	Using 2D HG and mandrel
25. SNAP GAUGE ^{\$}	Upto 100 mm	4.6 μ m	Using ULM
26. GROOVE MICROMETER ^{\$} L.C.:0.001 mm Or Coarser	Upto 100 mm	2.0 μ m	Using Gauge Blocks
27. THREE POINT MICROMETER ^{\$}	Upto 100 mm	7.0 μ m	Using Setting Rod
28. PISTOL CALIPER ^{\$} L.C.:01 mm	Upto 100 mm	22.8 μ m	Using Gauge Blocks
29. MILLIMESS ^{\$} L.C.:0.001 mm	0.05	1.6 μ m	Using ULM
30. TAPER THREAD PLUG GAUGE ^{\$}	Diameter at reference face Upto 100 mm	7.8 μ m	Using ULM
31. TAPER THREAD RING GAUGE ^{\$}	Diameter at reference face Upto 100 mm	7.7 μ m	Using ULM
32. THICKNESS FOILS ^{\$}	Upto 400 μ m	1.7 μ m	Using ULM

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33. CMM* L.C.:0.001 mm	0 to 700 mm	7.2 μ m	Using "0" Long Gage Blocks
34. SURFACE PLATES*	Upto 4000 mm x 4000 mm	$1.75 \sqrt{\frac{L+W}{100}}$ μ m (L&W in mm)	Using Precision Level
35. ELECTRONIC HEIGHT GAUGE*	Upto 700 mm	8.5 μ m	Using Long Gauge Blocks

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

\$ Only in Permanent Laboratory

* Only for Site Calibration

^o 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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