

Laboratory

**Precise Testing and Calibration Centre, Old No. 1/23, New No. 9,
Poonamalle High Road, Nerkundram, Chennai, Tamil Nadu**

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2822

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Validity

30.08.2018 to 29.08.2020

Last Amended on 12.03.2019

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
6.	Lever Type Indicators ^b (Dial/ Digital) L.C.: 0.001 mm L.C.: 0.01 mm	0 to 0.2 mm 0 to 1 mm	1.7 μ m 1.56 μ m	Using Dial Calibration tester
7.	Plain Plug Gauge ^s	1mm to 200 mm	3.20 μ m	Using Gauge Block, Dial Gauge
8.	Width Gauge ^s	Up to 50 mm	4.25 μ m	Using Gauge Block, Dial Gauge
9.	Measuring Pin ^s	0.1mm to 12.7 mm	2.1 μ m	Using Gauge Block, Dial gauge
10.	Flush Pin Gauge ^s	1mm to 75 mm	2.80 μ m	Using Gauge Block, Dial Gauge, Micrometer
11.	Snap Gauge / Dial Snap Gauge ^s (Fixed /Adjustable)	2mm to 150 mm	2.80 μ m	Using Slip Gauges Grade '0'
12.	Dial Depth Gauge ^s L.C.: 0.01 mm	0 to 25 mm	3.6 μ m	Using Slip Gauge Grade '0'
13.	Feeler Gauge ^s	0.05 mm to 1.0 mm	2.00 μ m	Using Digital Micrometer
14.	Bore gauge ^s (Digital/Dial) (only Transmission) L.C.: 0.001 mm	0 to 1.5 mm	2.1 μ m	Using Dial calibration tester

Shally Sharma
Convenor

Battal Singh
Program Manager

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
15.	Thickness Gauge [§] (Dial / Digital) L.C.: 0.01 mm	0 to 30 mm	4.8 μ m	Using Slip Gauges Grade '0'
16.	Height Gauges [§] (Digital / Dial) L.C.: 0.02 mm	0 to 600 mm	7.6 μ m	Using Caliper Checker
17.	Pistol Caliper [§] L.C.: 0.1 mm	0 to 100 mm	60.0 μ m	Using '0' Grade Slip Gauges
18.	Depth Vernier [§] (Analog/Digital) L.C.: 0.01 mm	0 to 300 mm	8.40 μ m	Using Slip Gauges Grade '0', Gauge Block Accessories & Caliper Checker
19.	Dial Caliper Gauge / Groove Dial /Inside Caliper Gauge [§] L.C 0.01mm	10 mm to 100 mm	3.2 μ m	Using '0' Grade slip Gauges & Gauge Block Accessories
20.	V-Block [§] Parallelism Perpendicularity Symmetry	100mm X 300 mm	4.20 μ m 4.30 μ m 4.40 μ m	Using Dial Gauge, '0' Grade Slip Gauge, Mandrel
21.	Comparator Stand [§]	300mm x 300 mm	2.99 μ m	Using Dial Gauge

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
22.	Height Measuring System* (Electronic) L.C.: 0.001 mm	0 to 600 mm	7.01 μ m	Using Length Bar
23.	Height Gauge* L.C :0.01 mm	0 to 600 mm	6.2 μ m	Using Length bar
24.	Bench Centre*	160mm X 750 mm	3.12 μ m	Using Master Mandrel & Dial gauge
25.	Video Measuring System* Linear L.C : 0.0001mm	300mm x200 mm	8.2 μ m	Using Slip Gauges
26.	Micrometer Setting Rod [§]	25 mm to 1000 mm	6.30 μ m	Using Long Slip / Slip Gauges with Dial Comparator Stand
27.	Thread Plug Gauge [§] (Major Dia. & Pitch Dia.)	2 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm	1.20 μ m 1.70 μ m 2.60 μ m	Using Universal Length Measuring Machine
28.	Taper Thread Plug Gauge [§]	3 mm to 100 mm	1.50 μ m	Using Universal Length Measuring Machine
29.	Taper Thread Ring Gauge [§]	5 mm to 100 mm	1.80 μ m	Using Universal Length Measuring Machine

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30.	Thread Ring Gauge [§] (Pitch Dia.)	2 mm to 100 mm 100 mm to 200 mm 200 mm to 250 mm	1.80 μ m 2.0 μ m 2.20 μ m	Using Universal Length Measuring Machine
31.	Plain Plug Gauge [§]	2 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm	1.00 μ m 1.10 μ m 1.30 μ m	Using Universal Length Measuring System
32.	Plain Ring Gauge/Setting Ring Gauge [§]	2mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm	1.90 μ m 2.20 μ m 2.70 μ m	Using Universal Length Measuring System
33.	Cylindrical Setting Master [§] (Diameter only)	3 mm to 100 mm	0.63 μ m	Using Universal Length Measuring System
34.	Thread Measuring Cylinders/ Wire [§]	0.1 mm to 10 mm	0.50 μ m	Using Universal Length Measuring System
35.	Taper Plain Plug Gauge [§]	2 mm to 100 mm	0.70 μ m	Using Universal Length Measuring System
36.	Taper Plain Ring Gauge [§]	2 mm to 100 mm	1.83 μ m	Using Universal Length Measuring System
37.	Three Point Micrometer [§] L.C:0.5 μ m	8 mm to 100 mm	0.70 μ m	Using Universal Length Measuring System
37.	Cylindrical Measuring Pins [§]	0.1 mm to 20 mm	0.60 μ m	Using Universal Length Measuring System

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38.	Standard Foils [§]	10 μ m to 2000 μ m	0.60 μ m	Using Universal Length Measuring System
39.	Length Bars [§]	25 mm to 300 mm	1.25 μ m	Using Universal Length Measuring System
40.	Gauge Blocks [§]	0.5 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm	0.11 μ m 0.12 μ m 0.13 μ m	Using Gauge Block Comparator with Reference K- Grade Gauge Blocks
II.	TORQUE MEASURING DEVICES			
1.	Torque Calibrator, Torque Transducer With / Without Indicator, Torque Meter, Torque Tester [§]			Using Dead Weight Torque Calibration System consisting of Lever Arm and Stainless steel / Aluminum Dead weights. As per BS: 7882.
	(a) Class 0.5 & Coarser (b) Class 0.2 & Coarser	0.05 Nm to 5 Nm 0.5 Nm to 2000 Nm	0.04 % 0.04%	
III.	ACCELERATION AND SPEED			
1.	Tachometer, Stroboscope, RPM / Speed (Indicator /Meter) [§] (Non-Contact Type)	10 rpm to 1000 rpm 1000 rpm to 90000 rpm	1.68 rpm 4.32 rpm	Using Digital Tachometer By Comparison Method
2.	Tachometer [§] (Contact Type)	10 rpm to 1000 rpm 1000 rpm to 10000 rpm	0.59 rpm 3.19 rpm	Using Digital Tachometer By Comparison Method

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