

Laboratory

RS Safety & Calibration Consultancy, 83 Upper Basement, Aakash Deep Plaza Golmuri, Jamshedpur, Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2581

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Validity

20.02.2018 to 19.02.2020

Last Amended on --

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	External Micrometer (Digital/ Digimatic/ Flange/ Knife Edge/ Ball Point) \$ L.C.:0.001mm L.C.: 0.01mm	0 to 100 mm 0 to 500 mm	2 μ m 8 μ m	Using Micrometer Check Set, Gauge Block and Length Bar
2.	Inside Micrometer (Stick Type) \$ L.C.: 0.01 mm	50mm to 500 mm	8.4 μ m	Using Gauge Block and Length Bar
3.	Dial Indicator (Digital / Plunger) \$ L.C.:0.001mm L.C.: 0.01mm	0 to 25 mm 0 to 10 mm	2 μ m 6 μ m	Using Dial Calibration Tester
4.	Bore Gauge (Transmission Only) \$ L.C.: 0.001mm	0 to 1 mm	3 μ m	Using Dial Calibration Tester
5.	Lever Type Dial Gauge (Puppy Dial) \$ L.C.: 0.002mm	0 to 1 mm	3 μ m	Using Dial Calibration Tester

Ram Ashray
Convenor

Avijit Das
Program Director

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6.	Caliper (Vernier / Digital / Dial) ^{\$} L.C.: 0.01mm	0 to 500 mm	15 μ m	Using Gauge Block and Length Bar
7.	Height Gauge (Vernier/ Digital/ Dial) ^{\$} L.C.: 0.001mm	0 to 500 mm	7.7 μ m	Using Gauge Block and Length Bar
8.	Feeler gauge ^{\$}	0 to 1 mm	2.6 μ m	Using Digital External Micrometer/ Inductive Probe with DRO
9.	Micrometer Setting Rod ^{\$}	0 to 500 mm	7.7 μ m	Using Gauge Block and Length Bar
10.	Fixed / Adjustable Snap Gauge ^{\$}	5 mm to 100 mm	2.0 μ m	Using Gauge Block & Length Bar
11.	Plain Plug Gauge ^{\$}	1 mm to 100 mm	4.0 μ m	Using Gauge Block and Comparator Stand
12.	Ultrasonic Thickness Gauge ^{\$}	Up to 100 mm	79.9 μ m	Using Gauge Block
13.	Bevel Protector ^{\$} L.C.: 5'	0 to 360°	5.5 min of arc	Using Profile Projector
14.	Angle Protector ^{\$} L.C.: 1'	0 to 180°	35 min of arc	Using Profile Projector

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
15.	Combination Set [§] L.C.:1'	0 to 180°	35 min of arc	Using Profile Projector
16.	Radius Gauge [§]	1 mm to 25 mm	10.4 μ m	Using Profile Projector
17.	Thread Pitch Gauge [§]	1 mm to 6 mm Angle	10 μ m 5 min of arc	Using Profile Projector
18.	Comparator Stand [§]	200mm X 300 mm	2.6 μ m	Using Digital Indicator
19.	Test Sieve [§]	0.05 mm to 1 mm 1 mm to 50 mm	5 μ m 20 μ m	Using Profile Projector
II.	PRESSURE INDICATING DEVICES			
1.	Digital Hydraulic Pressure Gauge [#]	0 to 700 bar	4.1 bar	Using Precision Pressure Gauge

* 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.

Ram Ashray
Convenor

Avijit Das
Program Director