

Laboratory Sai-Meena Calibration Laboratory Pvt. Ltd., Shop No. 52, Sector-8A, Yash Paradise, Airoli, Navi Mumbai, Maharashtra
Location - 1:- Shop No. 52, Sector-8A, Yash Paradise, Airoli, Navi Mumbai, Maharashtra
Location - 2:- Unit No. 113, Ashok Service Industrial Estate, Gokul Nagar, Thane (W), Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Mechanical Calibration **Issue Date** 06.08.2014

Certificate Number C- 0649 **Valid Until** 05.08.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
Location - 1			
I. DIMENSION			
1. VERNIER CALIPER[§] (DIAL/DIGITAL)			
L. C.: 0.01mm[Ⓟ]	0 to 300 mm	22 µm	Using Gauge Block/ Long Gauge Block
	0 to 600 mm	15.40 µm	
L. C.: 0.02mm	0 to 1000 mm	24.80 µm	
	0 to 1500 mm	35.20 µm	
2. VERNIER DEPTH GAUGE[§]			
L.C. 0.02 mm	0 to 300 mm	16.82 µm	Using Gauge Blocks & Long Gauge Blocks
3. VERNIER HEIGHT GAUGE[§]			
L.C. 0.02 mm	0 to 300 mm	15.40 µm	Using Gauge Blocks & Long Gauge Blocks
	0 to 600 mm	17.80 µm	
	0 to 1000 mm	24.82 µm	
4. HEIGHT GAUGE[§] (Dial / Digital/Digit)			
L.C. 0.01 mm	0 to 300 mm	9.82 µm	Using Gauge Blocks & Long Gauge Blocks
	0 to 600 mm	15.60 µm	

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Location - 1			
5. EXTERNAL MICROMETER[§] L.C. 0.01 mm	0 to 100 mm	6.30 µm	Using Micrometer Check Set, Gauge Blocks & Long Gauge Blocks
	100 mm to 200 mm	7.10 µm	
	200 mm to 400 mm	9.72 µm	
	400 mm to 600 mm	13.20 µm	
	600 mm to 800 mm	16.92 µm	
	800 mm to 1000 mm	20.80 µm	
6. EXTERNAL MICROMETER[§] L.C. 0.001 mm	0 to 25 mm	1.0 µm	Using Micrometer Check Set, Gauge Blocks & Long Gauge
	25 mm to 100 mm	2.20 µm	
	100 mm to 150 mm	8.40 µm	
7. MICROMETER SETTING ROD[§]	Upto 100 mm	2.20 µm	Using Micrometer Check Set, Gauge Blocks & Long Gauge
	100 mm to 200 mm	4.30 µm	
	200 mm to 400 mm	7.80 µm	
	400 mm to 600 mm	11.20 µm	
	600 mm to 800 mm	15.62 µm	
	800 mm to 1000 mm	20.0 µm	

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Location - 1			
8. INTERNAL MICROMETER[§]			
L.C. 0.01 mm (Head Only)	Upto 100 mm	6.10 µm	Using Gauge Blocks
EXTENSION ROD	Upto 500 mm	11.30 µm	Using Long Gauge Blocks
WITH INDIVIDUAL	Upto 1000 mm	20.85 µm	
EXTENSION AND	Upto 1500 mm	29.70 µm	
EXTENSION ROAD	Upto 2100 mm	40.50 µm	
ATTACHEMENT			
NOT MORE THAN			
1000 mm			
9. INSIDE MICROMETER[§]			
(Caliper Type)			
L.C. 0.01 mm	5mm to 50 mm	6.0 µm	Using Slip Gauge Block
10. DEPTH MICROMETER[§]			
L.C. 0.01 mm	0 to 150 mm	6.62 µm	Using Slip Gauge Block & Long Slip Gauge Block
	150mm to 300 mm	9.40 µm	
11. DIAL GAUGE[§]			
(Plunger/Mikrocator)			
L.C. 0.0002 mm^φ	Upto 1mm	1.0 µm	Using Comparator &
L.C. 0.001 mm	0 to 5 mm	1.32 µm	
	0 to 10 mm	1.24 µm	

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Location - 1			
L.C. 0.002 mm	0 to 1 mm	1.60 µm	Using Dial Calibration Tester
L.C. 0.01 mm	0 to 10 mm	6.27 µm	
	0 to 25 mm	6.28 µm	
	0 to 50 mm	6.31 µm	
12. LEVER DIAL INDICATOR[§]			
L.C. 0.001 mm	0 to 2 mm	1.23 µm	Using Dial Calibration Tester
13. DIAL THICKNESS GAUGE[§]			
L.C. 0.01 mm	0 to 10 mm	7.02 µm	Using Gauge Block
14. INSIDE DIAL CALIPER[§]			
L.C. 0.025 mm	10mm to 55 mm	17.60 µm	Using Gauge Blocks
L.C. 0.01 mm	10mm to 50 mm	7.64 µm	
15. PISTOL CALIPER[§]			
L.C. 0.1 mm	0 to 100 mm	95.0 µm	Using Gauge Blocks
16. BORE DIAL GAUGE[§] (For Transmission Only)	Upto 1 mm	7.7 µm	Using Dial Calibration Tester & Gauge Blocks
17. STEEL SCALE[§]			
L.C. 0.5 mm[Ⓟ]	0 to 1000 mm	125.30 µm	Using Tape & Scale Calibrator

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
18.	Location - 1 MEASURING TAPE [§] L.C. 1.0 mm	For Any Length	$0.153 \times \sqrt{\frac{L}{1000}}$ L in mm	Using Tape & Scale Calibrator
19.	BEVEL PROTRACTOR [§] L.C. 1 minutes [Ⓟ]	0 to 90°	2.90 min of arc	
20.	COMBINATION SET [§] DEGREE PROTRACTOR [§] L.C. 1°	0 to 180°	42.20 min of arc	Using Sine Bar
21.	FEELER GAUGE [§]	Upto 2 mm	2.0 μm	Using Digital Micrometer
22.	PLAIN PLUG GAUGE/ KEY WAY GAUGE/ WIDTH GAUGE/ PADDLE GAUGE/ PLAIN MANDREL/ FLUSH GAUGE [§]	Upto Ø 200 mm 200 mm to 300 mm	4.00 4.86	Using Gauge Blocks & Electronic Probe with DRO
23.	PIN GAUGE [§]	Upto 50 mm	4.00	Using Comparator Base & Gauge Blocks

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24. Location - 1 SNAP GAUGE ^{\$}	Upto 100 mm 150 mm to 300 mm	2.06 µm 5.74 µm	Using Gauge Gauges
25. DIAL SNAP GAUGE ^{\$}	Upto 100 mm	3.0 µm	Using Gauge Blocks
26. THREAD PLUG GAUGE ^{\$} (For effective Ø parameter)	Upto 100 mm	3.40 µm	Using FCDMM
27. TAPER THREAD PLUG GAUGE ^{\$} (For effective Ø parameter)	Upto 100 mm	3.40 µm	Using FCDMM
28. ' V ' BLOCK ^{\$} (Parallelism) (Squareness) (Symmetricity)	Upto 250 mm Upto 250 mm Upto 150 mm	3.58 µm 9.12 µm 3.06 µm	Using Electronic Probe , Plunger Dial ,Square Checking Device
29. ANGLE PLATE ^{\$} (Parallelism) (Squareness)	300 mm x 300 mm	4.40 µm 9.30 µm	Using Electronic Probe , Plunger Dial ,Square Checking Device
30. ENGINEER'S SQUARE ^{\$} (Parallelism) (Squareness)	Upto 300 mm Upto 600 mm	10.45 µm 14.36 µm	Using Comparator Stand & Squareness Checking Device

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31.	Location - 1 SPIRIT LEVEL/ PRECISION SPIRIT LEVEL^{\$} L.C: 0.02 µm/m L.C: 0.01 µm/m	Upto 200 mm Upto 100 mm	14.50 µm / mtr 12.0 µm / mtr	Using Sine Bar & Electronic Probe
32.	SQUARENESS^{\$}	Upto 200 mm	9.0 µm	Using Squareness Checking Device
33.	COATING THICKNESS FOIL^{\$}	Upto 2 mm	1.0 µm	Using Probe With DRO
34.	ELECTRONIC PROBE WITH DRO^{\$} L.C.: 0.0001 mm	Upto 25 mm	1.96 µm	Using Gauge Blocks
35.	THREAD MEASURING WIRES/ MEASURING PINS^{\$}	0.170mm to 20 mm	0.80 µm	Using Electronic Probe
36.	CYLINDRICAL MASTERS^{\$}	0 to 100 mm 100mm to 200 mm	2.05 µm 3.86 µm	Using Gauge Blocks & Comparator Stand
37.	TAPE & SCALE CALIBRATOR^{\$} L.C.: 0.005 mm	- Upto 1000 mm	20.0 µm	Using Gauge Blocks, Long Gauge Blocks

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38. Location - 1 COMPARATOR STAND[§] (For Base Flatness)	Upto Ø 100 mm	2.20 µm	Using Lever Dial Gauge
39. HEIGHT MASTER* L.C. 0.002mmΦ	Upto 300 mm	6.15 µm	Using Long Gauge Blocks
40. THREAD MEASURING PRISM[§]	A/B/C/D	1.20 µm	Using Electronic Probe with DRO
41. RISER BLOCK & HEIGHT MEASUREMENT[§]	300 mm	5.70 µm	Using Electronic Probe with DRO
42. FORD CUP MAJOR DIA[§]	Upto 100 mm	18.0 µm	Using Digital Vernier Caliper
43. STANDARD, WIRE GAUGE	0.19 mm to 7.62 mm	7.05 µm	Using Feeler Gauge & Slip Gauge
44. SURFACE PLATE*	2000 mm	$3.26 \times \sqrt{\frac{L+W}{100}} \mu\text{m}$ L & W in mm	Using Precision Spirit Level

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
45. Location - 1 HEIGHT MEASURING INSTRUMENT* L.C.: 0.0001 mm	Upto 1000 mm	19.60 µm	Using Gauge Blocks & Long Gauge Blocks
II. PRESSURE AND VACCUM			
1. PRESSURE GAUGE^s (Dial/ Digital Pressure Gauge/ Digital Indicator with Transmitter)	0 to 40 kg/cm ² 40 kg/cm ² to 400 kg/cm ² 400 kg/cm ² to 700 kg/cm ² 700 kg/cm ² to 1000 kg/cm ²	0.56 % rdg 0.28 % rdg 0.14 % rdg 0.48 % rdg	Using Transmitter With Digital Indicator & Hydraulic Pump
2. VACCUM GAUGE^s (Dial & Digital)	- 610 mmHg to 0 mmHg	0.18 % rdg	Using Pressure Transmitter with Digital Indicator & Pneumatic Pump
3. HYDRAULIC PRESSURE DIGITAL / ANALOGUE PRESSURE GAUGES , PRESSURE INDICATOR WITH TRANSDUCER / TRANSMITTER , PRESSURE SWITCH*	0 to 100 bar 100 bar to 400 bar 400 bar to 700 bar	0.76 bar 2.60 bar 4.57 bar	Digital Pressure Indicator with Transmitter & Hydraulic Comparator Pump

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
Location – 1			
4. PNEUMATIC PRESSURE DIGITAL / ANALOGUE PRESSURE GAUGES , PRESSURE INDICATOR WITH TRANSDUCER / TRANSMITTER , PRESSURE SWITCH*	0 to 300 bar	0.06 bar	Using Digital Pressure / Vacuum Calibrator & Handheld Pneumatic Pressure / Vacuum Pump
5. DIGITAL /ANALOGUE VACUUM GAUGES, VACUUM INDICATOR WITH TRANSDUCER/ TRANSMITTER, PRESSURE SWITCH*	0 to (-)0.8 bar	0.002 bar	Using Digital Pressure / Vacuum Calibrator & Handheld Pneumatic Pressure / Vacuum Pump
Location - 2			
I. MASS			
1. WEIGHTS\$ (Conventional Mass Accuracy Class F2 and Coarser)	1 mg	0.015 mg	Using Weights of Accuracy Class E2 and Precision Balances as per OIML R-111:2004 By Substitution Method, ABBA Weighing Cycle
	2 mg	0.015 mg	
	5 mg	0.015 mg	
	10 mg	0.015 mg	
	20 mg	0.015 mg	
	50 mg	0.015 mg	
	100 mg	0.015 mg	
	200 mg	0.015 mg	
	500 mg	0.040 mg	
	1 g	0.040 mg	
	2 g	0.040 mg	

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
Location - 2			
	5 g	0.040 mg	
	10 g	0.040 mg	
	20 g	0.050 mg	
	50 g	0.080 mg	
	100 g	0.10 mg	
	200 g	0.10 mg	
WEIGHTS[§] (Conventional Mass M1 and Coarser)	500 g	0.142 g	Using Weights of Accuracy Class F2 and Precision Balances as per OIML R - 111: 2004 By Substitution Method, ABBA Weighing Cycle
	1 kg	0.38 g	
	2 kg	0.38 g	
	5 kg	0.38 g	
	10 kg	0.5 g	
	20 kg	1.5 g	
2. WEIGHING MACHINE[‡] Readability : 0.01 mg Readability : 0.1 mg	0 to 200 g	0.05 mg 0.36 mg	Using Weights of accuracy Class E2 as per OIML R 76 : 2006
Readability : 1 mg	0 to 1 kg	0.5 g	Using Weights of accuracy Class (E2 & F2) as per OIML R 76 : 2006
Readability : 10 mg Readability : 100 mg	0 to 10 kg	0.5 g 2 g	Using Weights of accuracy Class (E2 & F2) as per OIML R 76 : 2006

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
Location - 2 Readability : 0.5 g Readability : 1 g Readability : 10 g	0 to 20 kg	1 g 5 g 20 g	Using Weights of accuracy Class (E2 & F2) as per OIML R 76 : 2006
II. VOLUME			
1. MICROPIPETTE[§]	1 µl 10 µl 20 µl 50 µl 100 µl 200 µl 500 µl 1000 µl 2000 µl 5000 µl	0.02 µl 0.02 µl 0.02 µl 0.02 µl 0.023 µl 0.05 µl 0.05 µl 0.13 µl 0.13 µl 0.5 µl	Using Standard Weights of Accuracy Class E ₂ , Precision Balance & Distilled water by Gravimetric Method based on ISO 8655 (Part 7): 2005
2. PIPETTE (GRADUATED & ONE MARK) / BURETTE[§]	0.1 ml 5 ml 10 ml 20 ml 50 ml 200 ml	0.001 ml 0.005 ml 0.005 ml 0.007 ml 0.01 ml 0.05 ml	Using Standard Weights of Accuracy Class (E ₂ & F ₁), Precision Balance & Distilled water by Gravimetric Method based on ISO 4787:2010

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Location - 2			
3. MEASURING CYLINDER / VOLUMETRIC FLASK/ GRADUATED JAR / CAN / DENSITY BOTTLE / BEAKER^s	1 ml	0.001ml	Using Standard Weights of Accuracy Class (E ₂ & F1), Precision Balance & Distilled water by Gravimetric Method based on ISO 4787:2010
	5 ml	0.015 ml	
	10 ml	0.005 ml	
	20 ml	0.005 ml	
	50 ml	0.005 ml	
	100 ml	0.12 ml	
	200 ml	0.12 ml	
	500 ml	0.30 ml	
	1000 ml	0.30 ml	
	2000 ml	0.50 ml	
III. DENSITY			
1. HYDROMETERS^s	(0.600 to 0.650) g/cm ³	0.001 g/cm ³	Using Standard Hydrometers & Known Density Liquids
	(0.650 to 0.700) g/cm ³	0.001 g/cm ³	
	(0.700 to 0.750) g/cm ³	0.001 g/cm ³	
	(0.750 to 0.800) g/cm ³	0.001 g/cm ³	
	(0.800 to 0.850) g/cm ³	0.001 g/cm ³	
	(0.850 to 0.900) g/cm ³	0.001 g/cm ³	
	(0.900 to 0.950) g/cm ³	0.001 g/cm ³	
	(0.950 to 1.000) g/cm ³	0.001 g/cm ³	
	(1.000 to 1.050) g/cm ³	0.001 g/cm ³	
	(1.050 to 1.100) g/cm ³	0.001 g/cm ³	
	(1.100 to 1.150) g/cm ³	0.001 g/cm ³	
	(1.150 to 1.200) g/cm ³	0.001 g/cm ³	
	(1.200 to 1.250) g/cm ³	0.001 g/cm ³	
	(1.250 to 1.300) g/cm ³	0.001 g/cm ³	
(1.300 to 1.350) g/cm ³	0.001 g/cm ³		

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Location - 2			
	(1.350 to 1.400) g/cm ³	0.001 g/cm ³	
	(1.400 to 1.450) g/cm ³	0.001 g/cm ³	
	(1.450 to 1.500) g/cm ³	0.001 g/cm ³	
	(1.550 to 1.600) g/cm ³	0.001 g/cm ³	
	(1.650 to 1.700) g/cm ³	0.001 g/cm ³	
	(1.700 to 1.750) g/cm ³	0.001 g/cm ³	
	(1.750 to 1.800) g/cm ³	0.001 g/cm ³	
	(1.800 to 1.850) g/cm ³	0.001 g/cm ³	
	1.850 to 1.900) g/cm ³	0.001 g/cm ³	
	(1.900 to 1.950) g/cm ³	0.001 g/cm ³	
	1.950 to 2.000) g/cm ³	0.001 g/cm ³	

IV. ACCOUSTICS

1	SOUND LEVEL METER[§]	94 dB	0.96 dB	Using Sound Level Calibrator By Direct Method
		114 dB	1.12 dB	

V. DIMENSION

1.	COATING THICKNESS GAUGE / DFT METER[§]	Upto 2 mm	4.8 µm	Using Foils By Comparison Method
2.	TEST SIEVE[§]	4 mm to 60 mm	27 µm	Digital Vernier CaliperL.C0.01mm By Comparison Method

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3.	Location - 2 ULTRASONIC THICKNESS GAUGE [§]	0 to 300 mm	63.5 µm	Std Block by Comparison By Comparison Method
4.	COATING THICKNESS FOILS [§] (Analog / Digital)	Upto 6 mm	1.87 µm	Digital Micrometer L.C 0.001mm By Comparison Method
5.	PROFILE PROJECTOR* LINEAR ANGLE MAGNIFICATION	0 to 300 mm 0 to 360 ° 5 X to 100 X	7.15 µm 3'18° 0.25 µm	Using Angle Gauges, Angular Graticules & Linear Glass Scale By Comparison Method
VI. PRESSURE & VACUUM				
1.	PNEUMATIC PRESSURE LOW PRESSURE DIGITAL / ANALOG PRESSURE GAUGES, PRESSURE INDICATOR WITH TRANSDUCERS / TRANSMITTER , MAGNEHELIC GAUGES [‡]	0 to 200 mmWC 200 mmWC to 2000 mmWC	2.3 mmWC 6.2 mmWC	Using Digital Pressure Calibrator & hand held Pneumatic Pump

Naveen Jangra
Convenor

Avijit Das
Program Manager

Laboratory Sai-Meena Calibration Laboratory Pvt. Ltd., Shop No. 52, Sector-8A, Yash Paradise, Airoli, Navi Mumbai, Maharashtra
Location - 1:- Shop No. 52, Sector-8A, Yash Paradise, Airoli, Navi Mumbai, Maharashtra
Location - 2:- Unit No. 113, Ashok Service Industrial Estate, Gokul Nagar, Thane (W), Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Discipline Mechanical Calibration **Issue Date** 06.08.2014

Certificate Number C- 0649 **Valid Until** 05.08.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
Location - 2			
VI. ACCELERATION & SPEED			
1. DIGITAL TACHOMETER^s (Non- Contact Type)	10 RPM to 999 RPM	0.55 RPM	Using Digital Tachometer (Non Contact Type) with Tachometer calibrator as source
	1000 RPM to 50000 RPM	8.4 RPM	
	50000 RPM 99900 RPM	57.9 RPM	
2. RPM OF CENRIFUGE*	10 RPM to 12000 RPM	8.5 RPM	Using Digital Tachometer (Non Contact Type)
3. RPM CALIBRATOR[#]	100 RPM to 30000 RPM 30000 RPM to 90000 RPM	0.05 % 0.05 % to 0.03 %	Using Rigol Frequency Counter

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

^s 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.

^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.

Naveen Jangra
Convenor

Avijit Das
Program Manager