



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

MSME TESTING CENTRE

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Shaheed Captain Gaur Marg, Okhla Industrial Estate, Phase III, New Delhi

in the field of

CALIBRATION

Certificate Number CC-2314

Issue Date 01/08/2017

Valid Until 31/07/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Avijit Das
Program Director



89076970200020000082

Anil Relia
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory MSME Testing Centre, Shaheed Captain Gaur Marg, Okhla Industrial Estate, Phase III, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

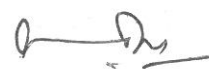
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Validity 01.08.2017 to 31.07.2019 **Last Amended on** --

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 ^s L.C.: 1 μ m ^Φ	Upto 100 mm	1.7 μ m	Using 00 Grade Block Set / Universal Length Machine
2.	Micrometer Setting Rod/ Length Bar ^s	Upto 175 mm Above 175 mm to 450 mm	2.6 μ m 6.3 μ m	Using ULM and 00 Slip Gauge Set & Accessories
3.	Dial Gauge ^s (Lever Type) L. C. 0.001 mm ^Φ	0 to 0.14 mm	1.5 μ m	Using Universal Length Machine
4.	Dial Gauge ^s (Plunger Type) L. C. : 0.01 mm ^Φ L.C. : 0.001mm	0 to 10 mm Above 10 mm to 50 mm	6.0 μ m 7.0 μ m	Using Universal Length Machine
5.	Caliper ^s (Vernier / Dial/ Digital) L. C.: 10 μ m ^Φ	Upto 450 mm	10 μ m	Using universal length Machine, 00 Gauge Block Set & Accessories, Caliper Checker
6.	Steel Scale ^s L.C.: 1.0 mm	0 to 1000 mm	$145 \times \sqrt{\frac{L}{200}} \mu$ m Where L is in mm	Using Universal Measuring Machine



Abhinav Thakur
Convenor



Avijit Das
Program Director



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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
7.	Plain Plug Gauge Measuring Pin Thread Measuring Wire ^{\$}	0.1mm to 50 mm > 50 mm to 200 mm	1 μ m 3.0 μ m	Using Universal Length Machine
8.	Thread Plug Gauge ^{\$}	2 mm to 100 mm	3.1 μ m	Using Universal Length Machine, Thread Measuring Wires
9.	Plain Ring Gauge ^{\$}	4.5 mm to 50 mm Above 50 mm to 200 mm	1.6 μ m 3.0 μ m	Using Universal Length Machine
10.	Thread Ring Gauge ^{\$}	4.5mm to 100 mm	3.1 μ m	Using Universal Length Machine
11.	Radius Gauge ^{\$}	Upto 30 mm 30 mm to 200 mm	200 μ m 300 μ m	Using Universal Measuring Machine
12.	Pitch Gauge ^{\$}	Upto 3 mm	3.0 μ m	Using Universal Measuring Machine
13.	Height Gauge ^{\$} (Vernier/Dial/ Digital) L.C. : 10 μ m ^Φ L.C. : 20 μ m ^Φ	Upto 450 mm	9.5 μ m 12.0 μ m	Using 00 Grade Block Set, Length Bar, Caliper Checker
14.	Surface Plate ^{\$}	1000 mm x 2000 mm	$2.3 \sqrt{\frac{(L+W)}{125}} \mu$ m L & W is in mm	Using Electronic Level
15.	Surface Roughness ^{\$} R _A R _y R _z	0 to 300 μ m	8 %	Using Surface Roughness Tester

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
16.	Straight Edge ^s Thickness $\leq$ 50 mm Straightness Parallelism Thickness $\geq$ 50 mm	Upto 1000 mm Upto 1000 mm	10 μ m 4 μ m 6 μ m	Using 00 Gauge Block Set and Surface Plate Using Electronic Level
17.	Slip Gauges ^s	Upto 10 mm 10 mm to 25 mm 25 mm to 100 mm	0.17 μ m 0.25 μ m 0.73 μ m	Using Slip Gauges Comparator, Slip gauges
18.	V Block ^s Parallelism Flatness Squareness V Angle Symmetricity	Upto 300 mm	5 μ m 5 μ m 5 μ m 3'	Using 00 grade Slip Gauges, Lever/Plunger Dial Gauge Mandrel, Universal Measuring Machine
19.	Test Sieves ^s	32 μ m to 4mm 4mm to 100mm	5 μ m 10.0 μ m	Using Universal Measuring Machine, Digital Caliper
20.	Glass Scale ^s L.C.: 0.001 mm L.C.: 0.1 mm L.C.: 0.5 mm ^o	0 to 1 mm 0 to 10mm 0 to 500mm	2.0 μ m 6.0 μ m 28.0 μ m	Using Universal Measuring Machine
21.	Angle Gauge ^s	$\leq$ 90° $\geq$ 90°	40 " 40 "	Using Universal Measuring Machine
22.	Measuring Tape ^s L.C.: 0.5 mm ^o	Upto 15 m	$270 \times \sqrt{\frac{L}{200}}$ μ m Where L is in mm	Using Universal Measuring Machine

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
23.	Caliper Checker ^{\$}	Upto 450 mm	5.0 μ m	Using 00Slip Gauges, Length Bar Lever Dial Gauge
24.	Bevel Protractor/ Combination Set/ Angle Plate ^{\$} L.C.: 5 min. L. C.: 1 deg. [°]	0 to 360 Degree 0 to 360 Degree	3' 3'	Using Universal Measuring Machine
25.	Mandrel Diameter ^{\$}	37 ϕ X 180 mm	1.7 μ m 1.0 μ m	Using Universal Measuring Machine

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

^{\$}Only in Permanent Laboratory

[°] 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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