



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name NTMT METROLOGY, # 4, SIPCOT SHOPPING COMPLEX, HOSUR, KRISHNAGIRI, TAMIL NADU , INDIA

Accreditation Standard ISO/IEC 17025:2005

Certificate Number CC-2970 Page No. : 1 / 5

Validity 14/03/2019 to 13/03/2021 Last Amended on -

'In view of the transition deadline for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020.'

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured / Instrument	Measurement range and additional parameters where applicable(Range and Frequency)	Calibration and Measurement Capability(CMC)(±)	Calibration or Measurement Method or procedure)
<b>Permanent Facility</b>					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel protector, Combination Set L.C.: 5 min	0deg to 90deg to 0deg	3.5 arc min	Using Sine bar, Slip gauge by Comparison Method
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge (transmission only) L.C.: 1 µm, Dial range :Ø6-600 mm Probing Range: Up to 1mm	0 to 1 mm	5.8 µm	Using Electronic Dial Calibration Tester by Comparison Method based on JIS B 7515
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier / Dial / Digital) L.C.: 0.01 mm	0 to 1000 mm	13.2 µm	Using Caliper Checker / Grade "0" Gauge Blocks by Comparison Method based on IS 3651 (Part 1 & 2)
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness foils	10µm to 694 µm	2.8 µm	Using Digital Micrometer by Comparison Method
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand Flatness	400 mm X 400 mm	5.1 µm	Using Slip gauge, Lever dial gauge by Comparison Method



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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier / Dial / Digital) L.C.: 0.01 mm	0 to 300 mm	8.9 µm	Using Grade "0" Gauge Blocks & Long Slip gauge by Comparison Method based on IS 4213
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer(analog/digital)L.C.: 0.01 mm	0 to 300 mm	8.5 µm	Using Grade "0" Gauge Blocks & Depth Checker by Comparison Method based on BS 6468
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness GaugeL.C.: 0.01 mm	0 to 25 mm	7.4 µm	Using Grade "0" Gauge Blocks by Comparison Method based on IS 2092
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Indicator/LVDT/ Electronic Probe L.C.: 0.0001 mmL.C.: 0.001 mm	0 to 25 mm	9.4 µm	Using Electronic Dial Calibration Tester by Comparison Method based on IS 2092
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square, Angle plate	0 to 300 mm	8.6 µm	Using Granite Square, Slip gauge by Comparison Method



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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer(analog/digital) Lc 0.01 mm	0 to 1000 mm	13.4 µm	Using Grade "0" Gauge Blocks by Comparison Method based on IS 2967
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	0.03 mm to 1 mm	5.9 µm	Using Digital Micrometer by Comparison Method based on IS 3179
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer/L.C.: 0.01 mm	0 to 200 mm	8.2 µm	Using Grade "0" Gauge Blocks by Comparison Method based on IS 2966
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial gauge L.C.: 0.002 mm	0 to 0.2mm	10.8 µm	Using Electronic Dial Calibration Tester by Comparison Method based on IS 11498
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 0.1mm	0 to 60 mm	59.3 µm	Using Grade "0" Gauge Blocks by Comparison Method IS 2092



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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger type Dial Gauge - Analog / Digital: (L.C.: 0.001 mm)	0 to 25 mm	6.4 µm	Using Electronic Dial Calibration Tester by Comparison Method based on IS 2092
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	0 to 300 mm	7 µm	Using Slip gauge Set Grade '0' by Comparison method as per IS:3455, IS:7859 & IS:3477
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sprit Level/Electronic Level (base)L.C. :5 µm / m	Up to 200 mm	8.2 µm/m	Using Electronic Level by Comparison Method
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	3000*3000 mm	0.76*sqrt(L+W)/100 µm L & W in mm	Using Electronic Level by indirect Method
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V BlockFlatness, Parallelism, Symmetry	0 mm to 300 mm	2.8 um	Using Mandrel, Slip gauge, Lever dial gauge by Comparison Method



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<b>Site Facility</b>					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	1D/2D Electronic Height GaugeL.C.: 0.0001 µm	0 to 1000 mm	12.4 µm	Using Grade "0" Gauge Blocks & Long Steel Gauge Blocks by Comparison Method based on IS 2921
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench CentreParallelismCo-axiality	Up to 300 mm	8 µm	Using , Lever dial, Test Mandrel by Comparison Method
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge (Vernier / Dial / Digital)L.C.: 0.01 mm	0 to 1000 mm	13 µm	Using Grade "0" Gauge Blocks & Long Steel Gauge Blocks by Comparison Method based on IS 2921
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge Flatness	Up to 3000 mm	5.8 µm	Using Electronic level, Lever dial, Test Mandrel by Comparison Method
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	3000*3000 mm	0.76*sqrt(L+W)/100 µm L & W in mm	Using Electronic Level by indirect Method