



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SANSERA ENGINEERING LTD, NO.261/C, BOMMASANDRA INDUSTRIAL AREA, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2399 **Page No** 1 of 4

Validity 06/01/2025 to 05/01/2029 **Last Amended on** -

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Digital / Dial (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 300 mm	13 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD Master Setting Gauge - Center Distance	Using CMM by Direct Method	10 mm to 200 mm	2.7 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD Master Setting Gauge - Diameter	Using CMM by Direct Method	3 mm to 100 mm	1.6 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CD Master Setting Gauge - Parallelism (Bend & Twist)	Using CMM by Direct Method	0 to 200 mm	1.4 µm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Comparator Stand - Base Flatness	Using Form Tester by Comparison Method	Up to 60 mm	0.6 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Height Gauge (L.C.: 0.01 mm)	Using Caliper Checker, Lever Dial & Surface Plate by Comparison Method	0 to 600 mm	13 µm



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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauges by Comparison Method	0 to 100 mm	2.5 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by direct method	0.03 mm to 1 mm	3.5 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin - Cylindrical / Standard	Using ULM by Direct Method	0.1 mm to 20 mm	0.8 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Master	Using Slip Gauges & Dial Comparator by Comparison Method	25 mm to 125 mm	2 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge - Diameter	Using Slip Gauges & Dial Comparator by Comparison Method	0.8 mm to 125 mm	2.2 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / Setting Ring Gauge	Using ULM by Comparison Method	3 mm to 100 mm	1.2 µm



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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Mechanical / Digital (L.C.: 0.01 mm)	Using ULM by Comparison Method	0 to 20 mm	6.5 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Mechanical / Digital (L.C.: 0.0005 mm)	Using ULM by Comparison Method	0 to 0.025 mm	0.6 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge - Mechanical / Digital (L.C.: 0.001 mm)	Using ULM by Comparison Method	0 to 1 mm	1.1 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Plug Gauge / Disk Gauge - Diameter	Using Slip Gauges & Dial Comparator by Comparison Method	2 mm to 125 mm	2.2 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring Gauge - Roundness	Using Form Tester by Comparison Method	2 mm to 100 mm	0.2 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring Gauge / Plain Ring Gauge - Diameter	Using CMM by Comparison Method	3 mm to 100 mm	1.6 µm



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19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges by Comparison Method	3 mm to 100 mm	2.5 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective Diameter	Using ULM by Comparison Method	3 mm to 50 mm	2.2 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Diameter	Using ULM by Comparison Method	5 mm to 50 mm	5.2 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge / Thickness Gauge	Using Slip Gauges & Dial Comparator by Comparison Method	0.8 mm to 125 mm	2.2 µm
23	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using CMM by Comparison Method	0 to 300 mm	3.3 µm

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.