National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

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

for its facilities at

83 & 84 AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4254

Issue Date: 31/01/2025 **Valid Until:** 30/01/2029

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 thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name :	SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4254
Validity	31/01/2025 to 30/01/2029

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)(±)
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.04 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	2.91 rpm
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Indicator with Sensor (Non Contact Type)	Using Tachometer and RPM Source by Comparison Method	60 rpm to 20000 rpm	1.87 rpm

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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination sets (L.C.: 5 min)	Using Profile Projector by comparison Method	0 to 360 °	6.81 min of arc
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission accuracy) (L.C.: 0.001 mm)	Using Universal Length Measuring Machine by Comparision method	0 to 1.5 mm	1.53 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm)	Using Thickness Foils by Comparison Method	10 µm to 1500 µm	1.9 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C. 0.01 mm)	Using Slip Gauge Blocks by comparison Method	0 to 300 mm	6.11 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C 0.01 mm)	Using Slip Gauges by Comparison Method	0 to 10 mm	6.7 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C : 0.001 mm)	Using Slip Gauges by comparison Method	0 to 300 mm	1.95 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C : 0.01 mm)	Using Long Gauges as per IS 2967 by comparison Method	300 mm to 500 mm	6.55 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Comparison Method	0.05 mm to 1 mm	1.1 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using Universal Length Measuring Machine by Comparison Method	0.01 mm to 2 mm	1.05 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge (L.C: 0.01 mm)	Using Universal Length Measuring Machine and Slip Gauges by Comparison Method	0 to 100 mm	6.22 µm

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137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Stick Micrometer (L.C: 0.01 mm)	Using Universal Length Measuring Machine by comparison Method	50 mm to 500 mm	6.5 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Universal Length Measuring Machine by comparison Method	0 to 0.14 mm	1.5 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Universal Length Measuring Machine/Long gauge blocks/Dial gauge by Comparison Method	25 mm to 600 mm	4.7 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C: 0.1 mm)	Using Slip Gauges by Comparison Method	0 to 100 mm	66 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal Length Measuring Machine by comparison Method	3 mm to 200 mm	1.55 µm

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142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C. 0.001 mm)	Using Universal Length Measuring Machine by comparison Method	0 to 25 mm	1.5 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex profile)	Using Profile Projector by comparison Method	Up to 25 mm	4.8 µm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring / Plain Ring Gauge	Using Universal Length Measuring Machine by comparison Method	3 mm to 200 mm	2.5 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Gap size)	Using Slip Gauges by comparison Method	3 mm to 200 mm	2.9 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Profile Projector by comparison Method	0.01 mm to 2 mm	3.04 µm

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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Universal Length Measuring Machine by comparison Method	0.17 mm to 6.35 mm	1.05 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.25 mm to 10 mm	2.9 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major & Effective Diameter)	Using Universal Length Measuring Machine by comparison Method	4 mm to 150 mm	1.6 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by comparison Method	5 mm to 150 mm	2.95 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	13.6 µm

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152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper(L.C: 0.02)	Using Long gauge Blocks by comparison Method	0 to 2000 mm	20.5 µm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (L.C: 0.01 mm)	Using Slip Gauges as Per (IS 16491 Part 2) by comparison Method	0 to 300 mm	7.6 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge (L.C. 0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	10.2 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge (L.C. 0.02 mm)	Using Long Gauge Blocks by comparison Method	0 to 1000 mm	14.0 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge / Bridge Cam Gauge	Using Profile Projector by Comparison Method	Up to 30 mm	7.91 µm

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157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Mrethod	Up to 10 mm	6.73 µm
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital Comparator Probe (L.C.: 0.0001 mm)	Using Universal Length Measuring Machine by Comparison Method	0 to 25 mm	1.2 µm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Gauge Blocks	Using Universal Length Measuring Machine/Long Gauge Blocks by comparison Method	125 to 400 mm	2.1 µm
160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) - Magnification	Using Gauge Blocks by Comparison Method	10 X to 100 X	0.8 %
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale (L.C: 0.01 second)	Using Angle Gauges by Comparison Method	0 ° to 360 °	3 min. of Arc.
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0 µm

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163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	0.5 mm to 25 mm	0.2 µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	25 mm to 50 mm	0.2 µm
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Gauge Blocks K'Grade by Comparison Method	50 mm to 100 mm	0.40 µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauges and Long Gauge Blocks by Comparison Method	0 to 200 mm	1.54 µm
167	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator, Hydraulic Comparator and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 700 bar	0.72 % rdg

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168	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator With hydraulic hand Pump and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 70 bar	1.75 % rdg
169	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump, 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 20 bar	1.4 % rdg
170	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Pressure Calibrator and 6½ Digit Multimeter by Comparison Method as per DKDR 6-1	(-) 0.8 bar to 0	2.23 % rdg
171	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 g /2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 60 kg	3 g
172	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (readability : 1 g / 2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 30 kg	2 g

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173	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability :100 g) Class IIII	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 20 kg	0.07 kg
174	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 20 g) Class IIII	Using F1 class standard weights By Direct Method	0 to 5 kg	25 g
175	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 200 g) Class IIII	Using F1 class standard weights By Direct Method	0 to 50 kg	0.14 kg
176	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 50 g) Class IIII	Using F1 class standard weights By Direct Method	0 to 10 kg	0.06 kg
177	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability: 500 g)	Using F1 class standard weights By Direct Method	0 to 100 kg	550 g
178	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Readability:1 kg) Class IIII	Using F1 class standard weights By Direct Method	0 to 300 kg	1.2 kg

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121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.04 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) - Magnification	Using Gauge Blocks by Comparison Method	10 X to 100 X	0.8 %
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale (L.C: 0.01 second)	Using Angle Gauges by Comparison Method	0 ° to 360 °	3 min. of Arc.

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127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 200 mm	2.0 µm
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine (L.C.: 0.1 µm)	Using Slip Gauges and Long Gauge Blocks by Comparison Method	0 to 200 mm	1.54 µm
129	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator, Hydraulic Comparator and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 700 bar	0.72 % rdg
130	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Industrial Pressure Gauge, Pressure Transmitter, Pressure transducer with digital pressure indicator & Pressure Switches	Using Digital Pressure Calibrator With hydraulic hand Pump and 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 70 bar	1.75 % rdg
131	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump, 6½ Digit Multimeter by Comparison Method as Per DKD R-6-1	0 to 20 bar	1.4 % rdg

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132	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Pressure Calibrator and 6½ Digit Multimeter by Comparison Method as per DKDR 6-1	(-) 0.8 bar to 0	2.23 % rdg
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability: 1 g /2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 60 kg	3 g
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & coarser) Readability : 0.01 mg	Using E1 Class Standard Weights as per OMIL R 76-1 By Direct Method	0 to 220 g	1.16 mg
135	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability : 0.2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 5 kg	0.25 g
136	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (readability : 1 g / 2 g) class III and coarser	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 30 kg	2 g
137	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Readability : 5 g)	Using F1 class standard weights as per OIML R-76 By Direct Method	0 to 300 kg	29 g