



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-3176

Issue Date: 10/11/2022

Valid Until:

09/11/2024

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)

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

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84
AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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Validity 10/11/2022 to 09/11/2024 **Last Amended on** 26/04/2023

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)(±)
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
106	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
107	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source, Measur e)	Frequency	Using Three Phase Test System by Direct method	45 Hz to 65 Hz	0.6%
108	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source, Measur e)	Time	Using Universal Time and Frequency counter by Comparison Method	10 s to 90 min	0.6s
109	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	0.46% rdg



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110	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Indicator with Sensor (Non Contact Type)	Using Digital Non Contact type Tachometer and RPM Source by Comparison Method	60 rpm to 20000 rpm	0.8% rdg
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination sets Least Count 5 min.	Using Profile Projector by comparison Method	0 to 360 Deg	5.7 min of arc
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission accuracy) L.C-0.001 mm	Using Universal Length Measuring Machine by Comparison method	0 to 1.5 mm	1.53µm
113	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	6.5 µm
114	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	6.7µm



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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C - 0.001mm)	Using Slip Gauges as per IS 2967 by comparison Method	0 to 300 mm	2.20µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C - 0.01mm)	Using Long Gauges as per IS 2967 by comparison Method	300 mm to 500 mm	6.55µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Universal Length Measuring Machine by Comparison Method	0.05 mm to 1 mm	1.1µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foils	Using ULM by Comparison Method	0.01 mm to 2 mm	1.05µm
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge L.C 0.01 mm	Using ULM and Slip Gauges by Comparison Method	0 to 100 mm	6.22µm



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120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Stick Micrometer	Using ULM by comparison Method	50 mm to 500 mm	6.5µm
121	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	1.5µm
122	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	4.7µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C 0.1 mm)	Using Slip Gauges by Comparison Method	0 to 100 mm	66µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Universal Length Measuring Machine by comparison Method	3 mm to 200 mm	1.62µm



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125	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	1.7µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex profile)	Using Profile Projector by comparison Method	Up to 25 mm	4.8µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Ring / Plain Ring Gauge	Using ULM by comparison Method	3 mm to 200 mm	2.83µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Gap size)	Using Slip Gauges by comparison Method	3 mm to 200 mm	2.9µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture size)	Using Profile Projector by comparison Method	0.01 mm to 2 mm	2.9µm



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130	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	1.1µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector by Comparison Method	0.25 mm to 10 mm	2.9µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major & Effective Diameter)	Using ULM by comparison Method	4 to 150 mm	1.6µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using ULM by comparison Method	5 mm to 150 mm	2.95µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.0.01 mm)	Using Caliper Checker by comparison Method	0 to 600 mm	10.2µm



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135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper(L.C-0.02)	Using Long gauge Blocks by comparison Method	0 to 2000 mm	20.5µm
136	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	7.6µm
137	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	10.2µm
138	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	14.0µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge / Bridge Cam Gauge	Using Profile Projector by Comparison Method	Up to 30 mm	6.0µm



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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison Method	Up to 10 mm	6.51µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Coating Thickness Gauge (L.C. 0.001 mm)	Using Thickness Foils by Comparison Method	0 to 1500 µm	1.9µm
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital Comparator Probe (L.C.0.0001 mm)	Using ULM by Comparison Method	0 to 25 mm	1.2µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Long Gauge Blocks	Using ULM/Long Gauge Blocks by comparison Method	125 to 400 mm	2.60µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular L.C. 0.01 second	Using Angle Gauges JIS B 7184 by Comparison Method	0 ° to 360 °	3min. of Arc
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear (L.C-0.001 mm)	Using Gauge Blocks JIS B 7184 by Comparison Method	0 mm to 200 mm	2.0µm
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification (L.C-0.001 mm)	Using Gauge Blocks JIS B 7184 by Comparison Method	10X to 100X	0.8%



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147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	0.5 to 25 mm	0.17µm
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Slip Gauge Blocks (K'Grade) by Comparison Method	25 to 50 mm	0.2µm
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Blocks	Using Gauge Block Calibrator and Reference Gauge Blocks K'Grade by Comparison Method	50 to 100 mm	0.25µm
150	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	1.54µm
151	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 as Per DKD R-6-1	0 bar to 70 bar	1.75% rdg



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152	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 6.5 digit Multimeter as Per DKD R-6-1	0 bar to 700 bar	0.72% rdg
153	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump as Per DKD R-6-1	0 bar to 20 bar	1.4% rdg
154	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Vacuum Gauge Calibrator with Hand Pump as Per ISO 3567	-0.8 to 0 bar	6.2% rdg
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 0.2 g) class III and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class II and coarser, based on OIML R 76-1	0 to 5 kg	0.25 g



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156	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 1 g to 2 g) class III and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class III, based on OIML R 76-1	0 to 30 kg	2g
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d = 200g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 50 kg	0.14kg
158	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=1 kg)	Using Standard Weights as per EURAMET cg -18, OIML-R-76-1. Calibration of Balance of class IV,	0 to 300 kg	1.2kg
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=100g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 20 kg	0.12kg
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=20g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 5 kg	25 g



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161	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=500g)	Using Standard Weights as per EURAMET cg -18 , OIML-R-76-1. Calibration of Balance of class IV,	0 to 100 kg	550 g
162	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (d=50g)	Using Standard Weights as per EURAMET cg -18, OIML-R-76-1. Calibration of Balance of class IV,	0 to 10 kg	0.06kg



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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.6 % to %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C-0.001 mm) - Magnification	Using Gauge Blocks JIS B 7184 by Comparison Method	10X to 100X	0.8%
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale Least Count 0.01 second	Using Angle Gauges JIS B 7184 by Comparison Method	0 ° to 360 °	3min. of Arc.
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Linear Scale (L.C-0.001 mm)	Using Gauge Blocks JIS B 7184 by Comparison Method	0 mm to 200 mm	2.0µm



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88	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	1.54µm
89	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 6.5 digit Multimeter as Per DKD R-6-1	0 bar to 700 bar	0.72% rdg
90	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 as Per DKD R-6-1	0 bar to 70 bar	1.75% rdg
91	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge	Using Digital Pressure Calibrator with Hand Pump as Per DKD R-6-1	0 bar to 20 bar	1.4% rdg
92	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge & Vacuum Transmitter	Using Digital Vacuum Gauge Calibrator with Hand Pump as Per ISO 3567	-0.8 to 0 bar	6.2% rdg



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93	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & coarser) Readability : 0.1 mg	Using E2 Class Standard Weights, calibration of Electronic Weighing Balance of class I, based on OIML R 76-1	0 to 220 g	1.5mg
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 0.1 g) class II and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class II and coarser, based on OIML R 76-1	0 to 5 kg	0.25 g
95	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 1 g to 2 g)	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class III, based on OIML R 76-1	0 to 30 kg	2 g
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d = 1 g to 2 g) class III and coarser	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class III and coarser, based on OIML R 76-1	0 to 60 kg	3g



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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)(±)
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (d > 5 g)	Using F1 Class Standard Weights, calibration of Electronic Weighing Balance of class IV, based on OIML R 76-1	0 to 300 kg	31 g
98	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Freezer, Deep freezer, Refrigerator, Chamber, Temperature Indicator with sensor of Industrial Incubator, Temperature indicator with sensor of Autoclave (non medical use only) (Single Position)	Using PRT with Indicator by Comparison Method	-40 °C to 300 °C	0.61°C
99	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace, Temperature indicator with sensor of Hot Air oven (Single position)	Using PRT with Indicator by Comparison Method	300 °C to 600 °C	1.48°C