



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PRECISE TESTING AND CALIBRATION CENTRE, DOOR NO:2 ,1ST FLOOR, ESI OUTER RING ROAD, NTR NAGAR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 24/07/2023 to 23/07/2025 **Last Amended on** 10/11/2023

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)(±)
Permanent Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Annemometer(Velocity Of air)	Using Annemometer by Comparison Method	5 m/s to 20 m/s	1.16 m/s
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge(Digital /Dial)(Only Transmission) L.C :0.001 mm	Dial Calibration Tester(Digital) By Direct method JIS 7515	0 mm to 2 mm	4.2 μm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial/Digital/Vernier) L.C.:0.01mm	Using Caliper Checker '0' Grade Slip Gauges,Gauge Block Accessories By Comparison Method	0 to 300 mm	8.1μm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial/Digital/Vernier) L.C.:0.01mm	Using Caliper Checker '0' Grade Slip Gauges,Gauge Block Accessories By Comparison Method	0 to 600 mm	18.7 μm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Mechanical/Dial/Digital) L.C.:0.01mm	Using Caliper Checker '0' Grade Slip Gauges,Gauge Block Accessories By Comparison Method,BS:6468	0 to 150 mm	6.0 μm



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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog/Digital) L.C.:0.01mm	Using Slip Gauges Grade '0' ,Gauge Block Accessories & Caliper Checker By Comparison Method	0 to 300 mm	9.1 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog/Digital) L.C.:0.02 mm	Using Slip Gauges Grade '0' ,Gauge Block Accessories & Caliper Checker By Comparison Method	0 to 300 mm	13.1µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial / Inside Caliper Gauge L.C.:0.01mm	Using '0' Grade Slip Gauges & Gauge Block Accessories '0' Grade Slip By Comparison Method	10 mm to 150 mm	6.0 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Depth Gauge L.C.:0.01mm	Using Slip Gauges Grade '0' By Comparison Method	0 to 10 mm	5.8 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External / Flange / Ball / Blade / Point Micrometer (Analog/Digital) L.C.:0.001mm	Using '0' Grade Slip Gauges,Gauge Block Accessories By Comparison Method	0 to 150 mm	1.8µm



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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Micrometer by Direct Method	0.03 mm to 1.0 mm	2.3 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Gauge Block,Dial Gauge,Micrometer by Comparison Method	4 mm to 100 mm	3.4 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges (Digital / Dial) L.C.:0.01mm	Using Caliper Checker By Comparison Method	0 to 600 mm	12.5 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer L.C.:0.01mm	Using '0' Grade Slip Gauge Block Accessories Caliper Checker By Comparison Method	5 mm to 600 mm	9.1µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type (Dial / Digital) Indicator L.C.:0.001mm	Using Dial Calibration Tester By Direct Method	0 to 2 mm	2.3 µm



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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Gauge Block,Dial Gauge by Comparison Method	0.1 mm to 20 mm	3.3µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.:0.1mm	Using Grade '0' Slip Gauges By Comparison Method	0 to 100 mm	60.0µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block,Dial Gauge By Comparison Method	2 mm to 100 mm	6.6µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type (Dial / Digital) Indicator L.C.:0.001mm	Using Dial Calibration Tester By Direct Method	0 to 25 mm	3.3 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	Using Gauges & Gauge Block Accessories By Comparison Method	25 mm to 150 mm	4.5 µm



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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge /Dial Snap Gauge(Fixed/ Adjustable)	Using Slip Gauges Grade '0' By Comparison Method	100 mm to 200 mm	2.8µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge /Dial Snap Gauge(Fixed/ Adjustable)	Using Slip Gauges Grade '0' By Comparison Method	2 mm to 100 mm	2.3µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug gauge (Effective diameter)	Standard FCDM by comparison method	2 mm to 100 mm	3.3 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial / Digital) L.C.:0.001mm	Using Slip Gauges Grade '0' By Comparison Method	0 to 50 mm	5.81 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge (Major Diameter & Pitch Diameter)	Using FCDM by comparison method	2 mm to 100 mm	3.9 µm



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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Flatness)	Using Plunger Dial, '0' Grade Slip Gauge, Bevel Protractor By Comparison Method	upto 250 mm x 200mm x 180mm	4.2 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Plunger Dial, '0' Grade Slip Gauge, Bevel Protractor By Comparison Method	upto 250mm x 200 mm x 180mm	3.6 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetry)	Using Plunger Dial, '0' Grade Slip Gauge, Bevel Protractor By Comparison Method	Upto 250mm x 200mm x 180mm	4.2 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Gauge Block,Dial Gauge By Comparison Method	3 mm to 100 mm	3.20µm
30	MECHANICAL-DUROMETER	Spring Force Calibration of Rubber Hardness Tester /Durometer	Using Digital Load Cell with Indicator Setup By Comparison Method	0 to 100 shore D	0.6Shore D



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31	MECHANICAL-DUROMETER	Spring Force Calibration of Rubber Hardness Tester /Durometer	Using Digital Load with Indicator Setup By Comparison method	0 to 100 Shore A	0.6 Shore A
32	OPTICAL-OPTICAL	Lux meter /illumiance meter	Using Standard Lux Meter with Source Setup By Comparison Method	50 lx to 25000 lx	2.9 %
33	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity meter ,Thermo hygrometer ,Humidity Meter ,Humidity Transmitter with indicator , Indicator of Humidity Graph	Using Temperature & Humidity meter, Temperature and Humidity Chamber by Comparison Method	10 °C to 50 °C @ 50%rh	0.41°C
34	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity meter ,Thermo hygrometer, Humidity Meter ,Humidity Transmitter with indicator, indicator ,Humidity Graph (@25°C)	Using Temperature & Humidity Meter With Sensor, Temperature and Humidity Chamber by Comparison Method	15 %rh to 95 %rh	1.46%rh



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35	THERMAL-TEMPERATURE	RTD, Thermocouple ,Indicator with Sensors, Digital Thermometer, indicator of temperature Switches, Transmitters with Indicator	Using RTD With Indicator, ultra cool dry block, Digital indicator by comparison method.	(-)95 °C to 140 °C	0.13°C
36	THERMAL-TEMPERATURE	RTD, Thermocouple, Indicator with Sensors, Digital Thermometer, Indicator of temperature Switches, Transmitters with Indicator	Using RTD With Indicator, dry block calibrator, Digital indicator by comparison method	140 °C to 400 °C	0.75°C
37	THERMAL-TEMPERATURE	Temperature gauge	Using RTD With Indicator, Ultra cool dry block bath, dry temperature bath by comparison method	0 °C to 300 °C	2.89°C
38	THERMAL-TEMPERATURE	Temperature indicator with sensor of High Temperature dry Bath (Single position)	Using S Type thermocouple with Indicator by comparison method.	1200 °C to 1500 °C	4.05°C



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39	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single Position)	Using RTD With Indicator By Comparison Method	(-)95 °C to 140 °C	0.68°C
40	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single Position)	Using RTD With Indicator by comparsion method.	140 °C to 400 °C	0.49°C
41	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single position)	Using S Type Thermocouple with Indicator by comparison method.	400 °C to 1200 °C	1.94°C
42	THERMAL-TEMPERATURE	Thermocouple, Indicator with Sensors, Digital Thermometer, indicator of temperature Switches, Transmitters with Indicator	Using S-Type Thermocouple With Indicator, temperature dry block bath, Digital indicator by comparison method.	400 °C to 1200 °C	2.03°C
43	THERMAL-TEMPERATURE	Thermocouple, Indicator with Sensors, Digital Thermometer, Switches, Transmitters with Indicator	Using S Type thermocouple With Indicator, high temperature dry block bath, Digital Indicator by comparison method	1200 °C to 1500 °C	4.09°C



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Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Flowmeter	Using Ultrasonic Flow meter By Comparison method	1.2 m3/hr to 15 m3/hr	1.6%
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Measuring System (Electronic) L.C.:0.001mm	Using Caliper Checker By Comparison Method	0 to 600 mm	10.6 µm
3	MECHANICAL-HARDNESS TESTING MACHINES	Brinwell Hardness Testing Machine	Using Standard Hardness Block by indirect Method as per IS 1500: 2021	HBW 2.5 / 187.5	2.0 %
4	MECHANICAL-HARDNESS TESTING MACHINES	Brinwell Hardness Testing Machine	Using Standard Hardness Block by indirect Method as per IS 1500: 2021	HBW 5 / 750	1.68 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinwell Hardness Testing Machines	Using Standard Hardness Block by indirect Method as per IS 1500: 2021	HBW 10 / 3000	1.60 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Micro vickers Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 0.5	3.13 %



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7	MECHANICAL-HARDNESS TESTING MACHINES	Micro vickers Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 1	1.7%
8	MECHANICAL-HARDNESS TESTING MACHINES	Micro vickers Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV0.3	3.08 %
9	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks by Indirect method as per IS 1586:2018	HRA	1 HRA
10	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks by Indirect method as per IS 1586:2018	HRB	1 HRB
11	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks by Indirect method as per IS 1586:2018	HRC	1 HRC
12	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 10	1.45 %
13	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 20	1.35%



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14	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 30	1.28 %
15	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 50	1.28 %
16	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 5	2.04 %
17	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Hydraulic) Pressure Gauges, Indicator of Pressure Switches & Pressure Transducers with indicators	Using Digital Pressure Calibrator as per DKD-R 6-1	0 to 700 bar	0.49bar
18	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Pneumatic) Pressure Gauges, Indicator of Pressure Switches & Pressure Transducers with indicators.	Using Digital Pressure Calibrator as per DKD-R 6-1	0 to 30 bar	0.021bar
19	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Vacuum Gauges, Indicator of Vacuum Switches & Vacuum Transducers with indicators	Using Digital Pressure Calibrator as per DKD-R 6-1	(-) 0.85 bar to 0 bar	0.007bar



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20	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity sensor with indicator of Temperature & Humidity Chamber, Climatic Chamber, Environmental Chamber (Single Position)	Using Temperature Humidity Meter With Sensor by comparison method	15 %rh to 95 %rh	1.35%rh
21	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber, Climatic Chamber	Using RTD With Indicator by comparison method	10 °C to 50 °C @ 50 %rh	0.4°C
22	THERMAL-TEMPERATURE	Furnace, Oven (Mutli Position)	Using N-type Thermocouple (minimum 9 sensors) with Recorder by comparison method	300 °C to 1200 °C	3.02°C
23	THERMAL-TEMPERATURE	Furnace, Incubator, Autoclave (Mutli Position)	Using RTD (minimum 9 sensors) with Recorder by Comparison Method	40 °C to 300 °C	1.35°C
24	THERMAL-TEMPERATURE	Oven ,Freezer ,Temperature Chamber, Climatic Chamber, Environmental Chamber (Mutli Position)	Using RTD sensor (minimum 9 sensors) with Recorder by Comparison Method	(-)-80 °C to 40 °C	0.67°C



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25	THERMAL-TEMPERATURE	RTD, Thermocouple ,Indicator with Sensors, Digital Thermometer, indicator of temperature Switches, Transmitters with Indicator	Using RTD With Indicator, ultra cool dry block, Digital indicator by comparison method.	(-)95 °C to 140 °C	0.13°C
26	THERMAL-TEMPERATURE	RTD, Thermocouple, Indicator with Sensors, Digital Thermometer, Indicator of temperature Switches, Transmitters with Indicator	Using RTD With Indicator, dry block calibrator, Digital indicator by comparison method	140 °C to 400 °C	0.75°C
27	THERMAL-TEMPERATURE	Temperature gauge	Using RTD With Indicator, Ultra cool dry block bath, dry temperature bath by comparison method	0 °C to 300 °C	2.89°C



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28	THERMAL-TEMPERATURE	Temperature indicator with sensor of Freezer, Temperature Chamber, Climatic Chamber, Environmental Chamber (Single Position)	Using RTD With Indicator by comparison method.	(-)80 °C to 40 °C	0.24°C
29	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace, Muffle furnace, Oven, Incubator, Autoclave - for industrial applications only(Single Position)	Using RTD with Indicator by comparison method.	40 °C to 300 °C	0.3°C
30	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace, Oven (Single position)	Using S type thermocouple with Indicator By comparison method.	300 °C to 1200 °C	1.63°C
31	THERMAL-TEMPERATURE	Temperature indicator with sensor of High Temperature dry Bath (Single position)	Using S Type thermocouple with Indicator by comparison method.	1200 °C to 1500 °C	4.05°C
32	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single Position)	Using RTD With Indicator By Comparison Method	(-)95 °C to 140 °C	0.68°C



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SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3649	Page No	16 of 16
Validity	24/07/2023 to 23/07/2025	Last Amended on	10/11/2023

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)(±)
33	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single Position)	Using RTD With Indicator by comparison method.	140 °C to 400 °C	0.49°C
34	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single position)	Using S Type Thermocouple with Indicator by comparison method.	400 °C to 1200 °C	1.94°C
35	THERMAL-TEMPERATURE	Thermocouple, Indicator with Sensors, Digital Thermometer, indicator of temperature Switches, Transmitters with Indicator	Using S-Type Thermocouple With Indicator, temperature dry block bath, Digital indicator by comparison method.	400 °C to 1200 °C	2.03°C
36	THERMAL-TEMPERATURE	Thermocouple, Indicator with Sensors, Digital Thermometer, Switches, Transmitters with Indicator	Using S Type thermocouple With Indicator, high temperature dry block bath, Digital Indicator by comparison method	1200 °C to 1500 °C	4.09°C

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