



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

PRECISE TESTING AND CALIBRATION CENTRE PRIVATE LIMITED, DOOR NO. 2, 1ST FLOOR, 1259/C9, ESI OUTER RING ROAD, NTR NAGAR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 1 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter (Air)	Using Mass Flow meter By Comparison method	0.1 lpm to 0.5 lpm	0.64 %
3	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter (Air)	Using Mass Flow meter By Comparison method	0.5 lpm to 50 lpm	0.66 %
4	MECHANICAL-DENSITY AND VISCOSITY	zahn cups, shell cup,Ford cup,	Using kinematic viscosity liquids by comparison method	20 Cst to 200 Cst	0.30 %
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge(Digital /Dial)(Only Transmission) L.C :0.001 mm	Using Dial Calibration Tester(Digital) by Direct Method	0 to 2 mm	4.2 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial/Digital/Vernier) L.C.:0.01 mm	Using Caliper Checker, Slip Gauge Set and Gauge Block Accessories by Direct Method	0 to 300 mm	8.4 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial/Digital/Vernier) L.C.:0.01 mm	Using Caliper Checker, Slip Gauge set and Gauge Block Accessories by Direct Method	0 to 600 mm	18.7 µm



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 2 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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)(±)
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould/Cylindrical Mould	Using Digital Caliper by direct method	up to 150 mm x 150 mm	10.1 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Vernier/Dial/Digital) L.C.:0.01 mm	Using Caliper Checker, Slip Gauges Set and Surface Plate by Comparison Method	0 to 150 mm	6.0 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog) L.C.:0.02 mm	Using Slip Gauges Set, Caliper Checker and Surface Plate by Comparison Method	0 to 300 mm	13.1 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog/Digital) L.C.:0.01 mm	Using Slip Gauge Set, Caliper Checker and Surface Plate by Comparison Method	0 to 300 mm	9.1 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper Gauge / Groove Dial / Inside Caliper Gauge L.C.:0.01 mm	Using Slip Gauge Set and Gauge Block Accessories by Comparison Method	10 mm to 150 mm	6.0 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Depth Gauge L.C.:0.01 mm	Using Slip Gauge Set by Comparison Method	0 to 10 mm	5.8 µm



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HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 3 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Flange / Ball / Blade / Point) (Analog/Digital) L.C.:0.001 mm	Using Slip Gauge Set by Comparison Method	0 to 150 mm	1.8 µm
15	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
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Gauge Block Set, Dial Gauge and Comparator Stand by Comparison Method	4 mm to 100 mm	3.4 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges (Digital / Dial) L.C.:0.01 mm	Using Caliper Checker and Surface Plate by Direct Method	0 to 600 mm	12.5 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Groove Caliper (Analog) L.C: 0.005 mm	Using Gauge Block Accessories Set and Slip gauge Set by comparison method	5 mm to 15 mm	5.9 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal micrometer (Digital) L.C: 0.001 mm	Using Gauge Block Accessories Set and Slip gauge Set By Comparison method	5 mm to 30 mm	2.8 µm



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HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 4 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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)(±)
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer/Stick Micrometer L.C.:0.01 mm	Using Slip Gauge Block, Gauge Block Accessories and Caliper Checker By Comparison Method	5 mm to 600 mm	9.1 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Indicator (Dial / Digital) L.C.:0.001 mm	Using Dial Calibration Tester By Direct Method	0 to 2 mm	2.3 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Gauge Block, Dial Gauge and Comparator Stand by Comparison Method	0.1 mm to 20 mm	3.3 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.:0.1 mm	Using Slip Gauges by Direct Method	0 to 100 mm	60.0 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Gauge Block, Dial Gauge and Comparator Stand By Comparison Method	2 mm to 100 mm	6.6 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Indicator (Dial / Digital) L.C.:0.001 mm	Using Dial Calibration Tester By Direct Method	0 to 25 mm	3.3 µm



National Accreditation Board for Testing and Calibration Laboratories

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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3649

Page No

5 of 15

Validity

24/07/2025 to 23/07/2029

Last Amended on

17/08/2025

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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod	Using Gauge Block Set & Gauge Block Accessories By Comparison Method	25 mm to 150 mm	4.5 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge /Dial Snap Gauge(Fixed/ Adjustable) - Parallelism	Using Slip Gauge Set by Direct Method	100 mm to 200 mm	2.8 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge /Dial Snap Gauge(Fixed/ Adjustable) - Parallelism	Using Slip Gauges by direct Method	2 mm to 100 mm	2.3 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug gauge (Effective diameter)	Using FCDM, Cylindrical Setting Masters, Thread Measuring Wires and Slip Gauge Set by Comparison Method	7 mm to 100 mm	3.3 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Gauge (Dial / Digital) L.C.:0.001 mm	Using Slip Gauges Set By Comparison Method	0 to 50 mm	5.81 µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge (Major Diameter & Pitch Diameter)	Using FCDM, Cylindrical Setting Masters and Thread Measuring Wires by Comparison Method	2 mm to 100 mm	3.9 µm



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3649

Page No

6 of 15

Validity

24/07/2025 to 23/07/2029

Last Amended on

17/08/2025

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)(±)
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Flatness)	Using Plunger Dial Gauge, Slip Gauge Set and Surface Plate by Direct Method	upto 250 mm x 200 mm x 180 mm	4.2 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Plunger Dial Gauge, Straight Mandrel and Surface Plate by Direct Method	upto 250 mm x 200 mm x 180 mm	3.6 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetry)	Using Plunger Dial Gauge, Straight Mandrel and Surface Plate by Direct Method	Upto 250 mm x 200 mm x 180 mm	4.2 µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Gauge Block Set, Dial Gauge and Comparator Stand By Comparison Method	3 mm to 100 mm	3.2 µm
36	MECHANICAL-DUROMETER	Spring Force Calibration of Rubber Hardness Tester /Durometer Shore A,B,E,O	Using Digital Loadcell with Indicator Setup by Comparison method as per ASTM D 2240	0 to 100 Shore A	0.62 Shore A
37	MECHANICAL-DUROMETER	Spring Force Calibration of Rubber Hardness Tester /Durometer C, D, DO	Using Digital Load Cell with Indicator Setup by Comparison Method as per ASTM D 2240	0 to 100 shore D	0.63 Shore D



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HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3649

Page No

7 of 15

Validity

24/07/2025 to 23/07/2029

Last Amended on

17/08/2025

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)(±)
38	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure (Pneumatic): Barometer	Using Master barometer with Desiccator setup and Pump by comparison method	50 mbar (abs) to 910 mbar (abs)	1.1 %
39	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity meter ,Thermo hygrometer , Indicator of Temperature & Humidity Recorder	Using Temperature & Humidity meter, Temperature and Humidity Chamber by Comparison Method	10 °C to 50 °C @ 50 %rh	0.7 °C
40	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity meter ,Thermo hygrometer, Humidity Meter ,Humidity Transmitter with indicator, Temperature/Humidity Recorder	Using Temperature & Humidity Meter With Sensor, Temperature and Humidity Chamber by Comparison Method	15 %rh to 95 %rh @25°C	1.46 %rh
41	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer, Temperature Switches with indicator, Transmitters with indicator	Using RTD With Indicator, dry block calibrator, Digital indicator, 6½ Multimeter by comparison method	140 °C to 400 °C	0.75 °C



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Validity 24/07/2025 to 23/07/2029

Page No 8 of 15

Last Amended on 17/08/2025

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42	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer, Temperature Switches with indicator, Transmitters with indicator	Using RTD with Indicator, ultra cool dry block, Digital indicator, 6½ Multimeter by comparison method.	(-) 95 °C to 140 °C	0.35 °C
43	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
44	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
45	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
46	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single Position)	Using RTD With Indicator by comparsion method.	140 °C to 400 °C	0.5 °C
47	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



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Validity 24/07/2025 to 23/07/2029

Page No 9 of 15

Last Amended on 17/08/2025

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48	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer	Using S Type thermocouple With Indicator, high temperature dry block bath by comparison method	1200 °C to 1500 °C	4.09 °C
49	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer, Temperature Switches with indicator, Transmitters with Indicator	Using S-Type Thermocouple With Indicator, 6½ Multimeter, Temperature dry block bath, Digital indicator by comparison method.	400 °C to 1200 °C	2.03 °C



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3649

Page No

10 of 15

Validity

24/07/2025 to 23/07/2029

Last Amended on

17/08/2025

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Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Flowmeter	Using Ultrasonic Flow meter By Comparison method	1.2 m ³ /hr to 100 m ³ /hr	1.6 %
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Measuring System (Electronic) L.C.:0.001 mm	Using Caliper Checker by Direct Method	0 to 600 mm	10.6 μm
3	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Block by indirect Method as per IS 1500: 2021	HBW 10 / 3000	1.60 %
4	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Block by indirect Method as per IS 1500: 2021	HBW 2.5 / 187.5	2.0 %
5	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Block by indirect Method as per IS 1500: 2021	HBW 5 / 750	1.71 %
6	MECHANICAL-HARDNESS TESTING MACHINES	Micro vickers Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 0.3	3.23 %
7	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 %
8	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%



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 11 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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9	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks by Indirect method as per IS 1586:2018	HRA	1.17 HRA
10	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks by Indirect method as per IS 1586:2018	HRBW	1.1 HRBW
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	1.76 %
13	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 20	1.62 %
14	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 30	1.80 %
15	MECHANICAL-HARDNESS TESTING MACHINES	Vicker Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 50	1.67 %
16	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Block by indirect method as per IS 1501 : 2020	HV 5	2.23 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 12 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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17	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure: Vacuum Gauges, Vacuum Switches with indicators & Vacuum Transducers with indicators	Using Digital Pressure Calibrator and Pneumatic Pump by Comparison Method as per DKD-R 6-1	(-) 0.85 bar to 0 bar	0.007 bar
18	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Hydraulic): Pressure Gauges, Pressure Switches with indicators & Pressure Transducers with indicators.	Using Digital Pressure Calibrator and Hydraulic Screw Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.49 bar
19	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure (Pneumatic): Pressure Gauges, Pressure Switches with indicators & Pressure Transducers with indicators.	Using Digital Pressure Calibrator and Pneumatic Pump by Comparison Method as per DKD-R 6-1	0 to 30 bar	0.021 bar
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 @25°C	1.35 %rh
21	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature indicator with sensor of Temperature & Humidity Chamber, Climatic Chamber (Single Position)	Using Temperature Humidity Meter With Sensor by comparison method	10 °C to 50 °C @ 50 %rh	0.7 °C



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Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3649

Page No

13 of 15

Validity

24/07/2025 to 23/07/2029

Last Amended on

17/08/2025

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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	3.22 °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
25	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer, Temperature Switches with indicator, Transmitters with indicator	Using RTD With Indicator, dry block calibrator, Digital indicator, 6½ Multimeter by comparison method	140 °C to 400 °C	0.75 °C
26	THERMAL-TEMPERATURE	RTD/ Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer, Temperature Switches with indicator, Transmitters with indicator	Using RTD with Indicator, ultra cool dry block, Digital indicator, 6½ Multimeter by comparison method.	(-) 95 °C to 140 °C	0.35 °C



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649

Page No 14 of 15

Validity 24/07/2025 to 23/07/2029

Last Amended on 17/08/2025

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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
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	0.38 °C
29	THERMAL-TEMPERATURE	Temperature indicator with sensor of Furnace, Muffle furnace, Oven, Incubator, Auto clave - for industrial applications only(Single Position)	Using RTD with Indicator by comparison method.	40 °C to 300 °C	0.5°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 Muffle furnace ,Furnace	Using S type thermocouple with indicator by comparison method	1000 °C to 1500 °C	3.9 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PRECISE TESTING AND CALIBRATION CENTRE PRIVATE LIMITED, DOOR NO. 2, 1ST FLOOR, 1259/C9, ESI OUTER RING ROAD, NTR NAGAR, HOSUR, KRISHNAGIRI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3649 **Page No** 15 of 15

Validity 24/07/2025 to 23/07/2029 **Last Amended on** 17/08/2025

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	(-)95 °C to 140 °C	0.68 °C
34	THERMAL-TEMPERATURE	Temperature indicator with sensor of Temperature Bath (Single Position)	Using RTD With Indicator by comparsion method.	140 °C to 400 °C	0.5 °C
35	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
36	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer	Using S Type thermocouple With Indicator, high temperature dry block bath by comparison method	1200 °C to 1500 °C	4.09 °C
37	THERMAL-TEMPERATURE	Thermocouple with or without indicator, Indicator with Sensors, Digital Thermometer, Temperature Switches with indicator, Transmitters with Indicator	Using S-Type Thermocouple With Indicator, 6½ Multimeter, Temperature dry block bath, Digital indicator by comparison method.	400 °C to 1200 °C	2.03 °C

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