



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ACCURATE METROLOGY PRIVATE LIMITED, BLOCK NO 02, FLAT NO. 2, GROUND FLOOR, LILY BLOCK-2 ,PHASE-4, BADDI, SOLAN, HIMACHAL PRADESH, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3846

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Validity

28/02/2024 to 27/02/2026

Last Amended on

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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)(\pm)
Permanent Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 140 °C to 1300 °C	1.6 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt-100)	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 800 °C	1.0 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 180 °C to 1200 °C	1.5 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.0 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.0 °C



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100)	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 800 °C	1.0 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 100 °C to 700 °C	1.6 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 100 °C to 900 °C	1.8 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.02 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.0 °C
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	10 s to 1800 s	0.4 s to 1.2 s



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12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1800 s to 86400 s	1.2 s to 26 s
13	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Indicator, Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge with Hydraulic Comparator by Comparison Method as per DKD-R-6-1	>100 bar to 700 bar	0.4 bar
14	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Indicator, Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge with Hydraulic Comparator by Comparison Method as per DKD-R-6-1	0 to 100 bar	0.1 bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial / Digital), Differential Pressure Gauge, Manometer & Magnehalic Gauge	Using Digital Manometer & Low Pressure Comparator by Comparison Method as per DKD-R-6-1	0 to 100 mbar	0.2 mbar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Indicator, Pressure Gauge (Digital / Analog)	Using Digital Manometer & Low Pressure Comparator by Comparison Method as per DKD-R-6-1	>100 Pa to 1000 Pa	10 Pa



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17	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum Gauge (Dial / Digital), Manometer	Using Digital Vacuum Gauge, Pneumatic Comparator by Comparison Method as per DKD-R-6-2	(-) 0.95 bar to 0	0.008 bar
18	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental / Climatic / Humidity Chamber (Multi-Position)	Using Minimum Nine Wireless Humidity Data Loggers by Multi Position Calibration Method	40 % rh to 75 % rh @ 25 °C	2.8 % rh
19	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator (Dial / Digital), Thermo-hygrometer, Data Logger with Humidity Sensor	Using Temperature / Humidity Indicator with Sensor, Humidity / Temperature Chamber by Comparison Method	15 % rh to 95 % rh @ 25 °C	1.5 % rh
20	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity Indicator with Sensor of Environmental / Climatic / Humidity Chamber (Single Position)	Using Temperature / Humidity Indicator with Sensor by Comparison Method	15 % rh to 95 % rh @ 25 °C	1.5 % rh



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21	THERMAL-TEMPERATURE	Incubator / BOD Incubator (For Non-Medical Application), Bath, Dry Block Calibrator, Vacuum Oven, Deep Freezer, Refrigerator, Oven, Chamber, Autoclave, Environmental Chamber (Multi Position)	Using Minimum Nine RTD Sensors with Multi Channel Data Logger by Multi Position Calibration Method	(-) 30 °C to 125 °C	1.2 °C
22	THERMAL-TEMPERATURE	Incubator / BOD Incubator (For Non-Medical Application), Liquid Bath, Oven, Chamber (Multi Position)	Using Minimum Nine RTD Sensor with Multi Channel Data Logger by Multi Position Calibration Method	125 °C to 250 °C	1.8 °C
23	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 Wire RTD (PT -100) with Digital Thermometer and Liquid Bath by Comparison Method	(-) 40.0 °C to 50.0 °C	0.7 °C
24	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 Wire RTD (PT -100) with Digital Thermometer and Liquid Bath by Comparison Method	50 °C to 250 °C	0.8 °C



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25	THERMAL-TEMPERATURE	RTD, Thermocouple Sensor with or without Temperature Indicator / Data Logger / Controller, Temperature Gauge	Using 4 Wire RTD (PT -100) with Digital Thermometer and Liquid Block by Comparison Method	50 °C to 250 °C	0.2 °C
26	THERMAL-TEMPERATURE	RTD, Thermocouple Sensor with or without Temperature Indicator / Data Logger, Temperature Gauge	Using 4 Wire RTD (PT -100) with Digital Thermometer and Methanol Bath by Comparison Method	(-) 40 °C to 25 °C	0.13 °C
27	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer, Freezer, Refrigerator, Incubator (For Non-Medical Application), Liquid Bath, Centrifuge Chamber, Cold Room, Environmental Chamber (Single Position)	Using RTD with Temperature Indicator by Comparison Method	(-) 40 °C to 0 °C	0.5 °C



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28	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace, Dry Block Calibrator, Oven (Single Position).	Using S Type Thermocouple with Temperature Indicator by Comparison Method	250 °C to 1200 °C	2.5 °C
29	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Incubator (For Non-Medical Application), Dry Block Calibrator, Oven, Vacuum Oven, Furnace, Centrifuge Chamber (Single Position)	Using 4 wire RTD with Temperature Indicator by Comparison Method	0 °C to 250 °C	0.7 °C
30	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator / Data Logger / Controller, Temperature Gauge	Using S Type Thermocouple with Digital Thermometer and Dry Block Calibrator by Comparison Method	500 °C to 1200 °C	2.0 °C
31	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator / Data Logger / Controller, Temperature Gauge	Using S Type Thermocouple with Digital Thermometer and Dry Block Calibrator by Comparison Method	250 °C to 500 °C	1.8 °C



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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 140 °C to 1300 °C	1.6 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt-100)	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 800 °C	1.0 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 180 °C to 1200 °C	1.5 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.0 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.0 °C



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7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 100 °C to 700 °C	1.6 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Digital Multifunction Process Calibrator by Direct Method	(-) 100 °C to 900 °C	1.8 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.02 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Digital Multifunction Process Calibrator by Direct Method	0 °C to 1700 °C	3.0 °C
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	10 s to 1800 s	0.4 s to 1.2 s



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12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1800 s to 86400 s	1.2 s to 26 s
13	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Indicator, Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge with Hydraulic Comparator by Comparison Method as per DKD-R-6-1	>100 bar to 700 bar	0.4 bar
14	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Indicator, Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge with Hydraulic Comparator by Comparison Method as per DKD-R-6-1	0 to 100 bar	0.1 bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial / Digital), Differential Pressure Gauge, Manometer & Magnehelic Gauge	Using Digital Manometer & Low Pressure Comparator by Comparison Method as per DKD-R-6-1	0 to 100 mbar	0.2 mbar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Indicator, Pressure Gauge (Digital / Analog)	Using Digital Manometer & Low Pressure Comparator by Comparison Method as per DKD-R-6-1	>100 Pa to 1000 Pa	10 Pa



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17	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Vacuum Gauge (Dial / Digital), Manometer	Using Digital Vacuum Gauge, Pneumatic Comparator by Comparison Method as per DKD-R-6-2	(-) 0.95 bar to 0	0.008 bar
18	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental / Climatic / Humidity Chamber (Multi-Position)	Using Minimum Nine Wireless Humidity Data Loggers by Multi Position Calibration Method	40 % rh to 75 % rh @ 25 °C	2.8 % rh
19	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator (Dial / Digital), Thermo-hygrometer, Data Logger with Humidity Sensor	Using Temperature / Humidity Indicator with Sensor, Humidity / Temperature Chamber by Comparison Method	15 % rh to 95 % rh @ 25 °C	1.5 % rh
20	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity Indicator with Sensor of Environmental / Climatic / Humidity Chamber (Single Position)	Using Temperature / Humidity Indicator with Sensor by Comparison Method	15 % rh to 95 % rh @ 25 °C	1.5 % rh



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22	THERMAL-TEMPERATURE	Incubator / BOD Incubator (For Non-Medical Application), Liquid Bath, Oven, Chamber (Multi Position)	Using Minimum Nine RTD Sensor with Multi Channel Data Logger by Multi Position Calibration Method	125 °C to 250 °C	1.8 °C
23	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 Wire RTD (PT -100) with Digital Thermometer and Liquid Bath by Comparison Method	(-) 40.0 °C to 50.0 °C	0.7 °C
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26	THERMAL-TEMPERATURE	RTD, Thermocouple Sensor with or without Temperature Indicator / Data Logger, Temperature Gauge	Using 4 Wire RTD (PT -100) with Digital Thermometer and Methanol Bath by Comparison Method	(-) 40 °C to 25 °C	0.13 °C
27	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer, Freezer, Refrigerator, Incubator (For Non-Medical Application), Liquid Bath, Centrifuge Chamber, Cold Room, Environmental Chamber (Single Position)	Using RTD with Temperature Indicator by Comparison Method	(-) 40 °C to 0 °C	0.5 °C



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29	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Incubator (For Non-Medical Application), Dry Block Calibrator, Oven, Vacuum Oven, Furnace, Centrifuge Chamber (Single Position)	Using 4 wire RTD with Temperature Indicator by Comparison Method	0 °C to 250 °C	0.7 °C
30	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator / Data Logger / Controller, Temperature Gauge	Using S Type Thermocouple with Digital Thermometer and Dry Block Calibrator by Comparison Method	500 °C to 1200 °C	2.0 °C
31	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator / Data Logger / Controller, Temperature Gauge	Using S Type Thermocouple with Digital Thermometer and Dry Block Calibrator by Comparison Method	250 °C to 500 °C	1.8 °C

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