



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NATIONAL CENTRE FOR QUALITY CALIBRATION, 4, ABHISHREE CORPORATE PARK,
ISKCON-AMBLI ROAD, AMBLI, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 11/04/2023 to 10/04/2025 **Last Amended on** 12/05/2023

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)(±)
334	MECHANICAL-WEIGHTS	Weight / Mass (F1 & coarser)	Using E2 Class Standard Weight & Mass Comparator (readability: 5 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	5 kg	5.8mg
335	MECHANICAL-WEIGHTS	Weight / Mass (F1 & coarser)	Using E2 Class Standard Weight & Mass Comparator (readability: 5 mg) by Substitution Method of ABBA Weighing Cycle as per OIML R 111-1	50 kg	27mg
336	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Humidity Chamber / Environmental Chamber (Single Position)	Using Temperature & Humidity Indicator with Sensor by Comparison method	5 °C to 50 °C @ 50%rh	0.60°C
337	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Temperature & Humidity Chamber / Environmental Chamber	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh @ 25°C	1.85%rh



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338	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Data Logger, Humidity Transmitter, Dry & Wet Bulb Thermometer, Humidity Meter with Sensor, Humidity Transmitter / Transducer	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh @ 25°C	1.85%rh
339	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Data Logger, Humidity Transmitter, Dry & Wet Bulb Thermometer, Humidity Meter with Sensor, Humidity Transmitter / Transducer	Using Temperature & Humidity Indicator with Sensor by Comparison method	5 °C to 50 °C @ 50%rh	0.60°C
340	THERMAL-TEMPERATURE	Black Body Furnace (Emissivity: 0.95)	Using Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	50 °C to 500 °C	4.82°C
341	THERMAL-TEMPERATURE	Black Body Furnace (Emissivity: 0.99)	Using Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	300 °C to 1200 °C	7.4°C



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342	THERMAL-TEMPERATURE	Data Logger with in-built Temperature Sensor (Wireless Type)	Using SSPRT with Super DAQ Precision Temperature Scanner & Temperature / Humidity Calibrator by Comparison method	(-)25 °C to 50 °C	0.44°C
343	THERMAL-TEMPERATURE	Freezer, Incubator, Environmental Chamber (Oven, Furnace) (Multi Position)	Using RTD Sensors (Minimum 9) with Super DAQ Precision Temperature Scanner and Data Logger by Comparison method	(-)80 °C to 100 °C	4°C
344	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Super DAQ Precision Temperature Scanner & Liquid Temperature Bath by Comparison method	(-)80 °C to 50 °C	0.37°C
345	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Super DAQ Precision Temperature Scanner & Liquid Temperature Bath by Comparison method	110 °C to 250 °C	0.55°C



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346	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Super DAQ Precision Temperature Scanner & Liquid Temperature Bath by Comparison method	50 °C to 110 °C	0.47°C
347	THERMAL-TEMPERATURE	Non-contact Type Infrared Thermometer / Thermal Imaging Camera / Pyrometer - Temperature	Using High Stability Black Body Furnace & Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	100 °C to 500 °C	3.48°C
348	THERMAL-TEMPERATURE	Non-contact Type Infrared Thermometer / Thermal Imaging Camera / Pyrometer - Temperature	Using High Stability Black Body Furnace & Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	50 °C to 100 °C	2.05°C
349	THERMAL-TEMPERATURE	Non-contact Type Infrared Thermometer / Thermal Imaging Camera / Pyrometer - Temperature	Using High Stability Black Body Furnace & Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	500 °C to 1200 °C	4.11°C



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350	THERMAL-TEMPERATURE	Oven, Incubator Furnace, Autoclave(Non Medical Purposes), Environmental Chamber, Room (Multi Position)	Using RTD Sensors (Minimum 9) with Super DAQ Precision Temperature Scanner and Data Logger by Comparison method	100 °C to 250 °C	4°C
351	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using SSPRT with Super DAQ Precision Temperature Scanner, Liquid Temperature Bath, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	(-)80 °C to 50 °C	0.42°C
352	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using SSPRT with Super DAQ Precision Temperature Scanner, Dry Block Calibrator, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	50 °C to 650 °C	0.25°C



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353	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using S-Type Thermocouple with Temperature Calibrator, Dry Block Furnace, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	650 °C to 1200 °C	2.0°C
354	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter	Using SSPRT with Super DAQ Precision Temperature Scanner, Liquid Nitrogen, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	(-)196 °C	0.16°C
355	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder/ Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using SSPRT with Super DAQ Precision Temperature Scanner, Dry block Calibrator, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	(-)35 °C to 140 °C	0.08°C



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356	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Calibrator, Furnace (Single Position)	Using S-Type Thermocouple with Temperature Calibrator by Comparison method	650 °C to 1200 °C	2.04°C
357	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Cold room, Environmental chamber, Freezer, Incubator (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	(-)80 °C to (-)35 °C	0.26°C
358	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Cold room, Environmental chamber, Freezer, Oven, COD., Hot Plate, Heating Mental, Incubator, Furnace (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	(-)35 °C to 140 °C	0.08°C



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359	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Environmental chamber, COD, Hot Plate, Heating Mantle, Oven, Furnace (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	140 °C to 650 °C	0.25°C



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148	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Chamber, Generator, Climate Chamber, Humidity Chamber (Single Position)	Using Temperature & Humidity Meter with Sensor by Comparison method	20 %rh to 95 %rh @ 25°C	1.85%rh
149	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber / Environmental Chamber, Humidity Chamber (Multi Position)	Using Temperature & Humidity Data Loggers (Minimum 9 sensor) by Comparison method	20 %rh to 95 %rh @ 25°C	10.4%rh
150	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with Sensor of Chamber, Generator, Climate Chamber, Humidity Chamber (Single Position)	Using Temperature & Humidity Meter with Sensor by Comparison method	5 °C to 50 °C @ 50%rh	0.60°C
151	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Humidity Chamber / Environmental Chamber (Single Position)	Using Temperature & Humidity Indicator with Sensor by Comparison method	5 °C to 50 °C @ 50%rh	0.60°C



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152	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Temperature & Humidity Chamber / Environmental Chamber	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh @ 25°C	1.85%rh
153	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Data Logger, Humidity Transmitter, Dry & Wet Bulb Thermometer, Humidity Meter with Sensor, Humidity Transmitter / Transducer	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %rh to 95 %rh @ 25°C	1.85%rh
154	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Data Logger, Humidity Transmitter, Dry & Wet Bulb Thermometer, Humidity Meter with Sensor, Humidity Transmitter / Transducer	Using Temperature & Humidity Indicator with Sensor by Comparison method	5 °C to 50 °C @ 50%rh	0.60°C



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155	THERMAL-TEMPERATURE	Black Body Furnace (Emissivity: 0.95)	Using Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	50 °C to 500 °C	4.82°C
156	THERMAL-TEMPERATURE	Black Body Furnace (Emissivity: 0.99)	Using Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	300 °C to 1200 °C	7.4°C
157	THERMAL-TEMPERATURE	Data Logger with in-built Temperature Sensor (Wireless Type)	Using SSPRT with Super DAQ Precision Temperature Scanner & Temperature / Humidity Calibrator by Comparison method	(-)25 °C to 50 °C	0.44°C
158	THERMAL-TEMPERATURE	Freezer, Incubator, Environmental Chamber (Oven, Furnace) (Multi Position)	Using RTD Sensors (Minimum 9) with Super DAQ Precision Temperature Scanner and Data Logger by Comparison method	(-)80 °C to 100 °C	4°C



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159	THERMAL-TEMPERATURE	Oven, Furnace (Multi Position)	Using N-Type Thermocouples (Minimum 9) with Super DAQ Precision Temperature Scanner by Comparison method	250 °C to 1200 °C	6.4°C
160	THERMAL-TEMPERATURE	Oven, Incubator Furnace, Autoclave(Non Medical Purposes), Environmental Chamber, Room (Multi Position)	Using RTD Sensors (Minimum 9) with Super DAQ Precision Temperature Scanner and Data Logger by Comparison method	100 °C to 250 °C	4°C
161	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using SSPRT with Super DAQ Precision Temperature Scanner, Dry Block Calibrator, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	50 °C to 650 °C	0.25°C



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162	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using S-Type Thermocouple with Temperature Calibrator, Dry Block Furnace, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	650 °C to 1200 °C	2.0°C
163	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder/ Controller, Digital Thermometer, Temperature Gauge, Switch, Transducer, Transmitter	Using SSPRT with Super DAQ Precision Temperature Scanner, Dry block Calibrator, 6½ Digit Multimeter and Multifunction calibrator by Comparison method	(-)35 °C to 140 °C	0.08°C
164	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Dry Block Calibrator, Furnace (Single Position)	Using S-Type Thermocouple with Temperature Calibrator by Comparison method	650 °C to 1200 °C	2.04°C



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165	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Cold room, Environmental chamber, Freezer, Incubator (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	(-)80 °C to (-)35 °C	0.26°C
166	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Cold room, Environmental chamber, Freezer, Oven, COD., Hot Plate, Heating Mental, Incubator, Furnace (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	(-)35 °C to 140 °C	0.08°C



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