SCOPE OF ACCREDITATION

Laboratory Name : NCQC LABORATORY LLP, 4, ABHISHREE CORPORATE PARK, ISCKON-AMBLI ROAD, AMBLI, AHMEDABAD, GUJARAT, INDIA

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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)(±)
342	MECHANICAL-WEIGHTS	Accuracy class 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	20 kg	15.3 mg
343	MECHANICAL-WEIGHTS	Accuracy class 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	5.8 mg
344	MECHANICAL-WEIGHTS	Accuracy class 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	27 mg
345	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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346	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Temperature & Humidity Chamber / Environmental Chamber (Single Position)	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %RH to 95 %RH @ 25°C	1.85 %RH
347	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 and Portable Hybrid Temperature & Humidity Calibrator by Comparison method	20 %RH to 95 %RH @ 25°C	1.85 %RH
348	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 and Portable Hybrid Temperature & Humidity Calibrator by Comparison method	5 °C to 50 °C @ 50 %RH	0.60 °C
349	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
350	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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351	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
352	THERMAL-TEMPERATURE	Freezer, Incubator, Environmental Chamber (Multi Position)	Using Data Logger (Minimum 9) by Comparison Method	(-) 25 °C to 50 °C	4 °C
353	THERMAL-TEMPERATURE	Freezer, Incubator, Environmental Chamber (Oven, Furnace) - Multi Position	Using RTD Sensors (Minimum 9) with Super DAQ Precision Temperature Scanner by Comparison method	(-) 80 °C to 100 °C	4 °C
354	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
355	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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356	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
357	THERMAL-TEMPERATURE	Non-contact Type Infrared Thermometer / Thermal Imaging Camera / Pyrometer - Temperature (Emissivity = 0.95)	Using High Stability Black Body Furnace & Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	100 °C to 500 °C	3.48 °C
358	THERMAL-TEMPERATURE	Non-contact Type Infrared Thermometer / Thermal Imaging Camera / Pyrometer - Temperature (Emissivity = 0.95)	Using High Stability Black Body Furnace & Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	50 °C to 100 °C	2.05 °C
359	THERMAL-TEMPERATURE	Non-contact Type Infrared Thermometer / Thermal Imaging Camera / Pyrometer - Temperature (Emissivity = 0.99)	Using High Stability Black Body Furnace & Non-contact on-line Pyrometer / Infrared Thermometer by Comparison method	500 °C to 1200 °C	4.61 °C
360	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 by Comparison method	100 °C to 250 °C	4 °C

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361	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
362	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
363	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
364	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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365	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Heating Mental	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	30 °C to 300 °C	0.25 °C
366	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Cold room, Environmental chamber, Freezer, Oven, COD., Incubator, Furnace (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	(-) 35 °C to 140 °C	0.08 °C
367	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Environmental chamber, COD, Oven, Furnace (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	140 °C to 650 °C	0.25 °C
368	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Hot Plate	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	30 °C to 100 °C	0.08 °C
369	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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370	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
371	THERMAL-TEMPERATURE	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

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154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Accuracy Class IV & coarser (readability: 10 g)	Using Standard Weights (F1 & M1 Class) as per OIML R-76-1	50 kg to 300 kg	10 g
155	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
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Chamber / Environmental Chamber, Humidity Chamber (Multi Position)	Using Temperature & Humidity Data Loggers (Minimum 9) by Comparison method	20 %RH to 95 %RH @ 25°C	10.4 %RH
157	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
158	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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159	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature/Humidity Indicator with sensor of Temperature & Humidity Chamber / Environmental Chamber (Single Position)	Using Temperature & Humidity Indicator with Sensor by Comparison method	20 %RH to 95 %RH @ 25°C	1.85 %RH
160	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 and Portable Hybrid Temperature & Humidity Calibrator by Comparison method	20 %RH to 95 %RH @ 25°C	1.85 %RH
161	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 and Portable Hybrid Temperature & Humidity Calibrator by Comparison method	5 °C to 50 °C @ 50 %RH	0.60 °C
162	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
163	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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164	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
165	THERMAL-TEMPERATURE	Freezer, Incubator, Environmental Chamber (Multi Position)	Using Data Logger (Minimum 9) by Comparison Method	(-) 25 °C to 50 °C	4 °C
166	THERMAL-TEMPERATURE	Freezer, Incubator, Environmental Chamber (Oven, Furnace) - Multi Position	Using RTD Sensors (Minimum 9) with Super DAQ Precision Temperature Scanner by Comparison method	(-) 80 °C to 100 °C	4 °C
167	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 by Comparison method	100 °C to 250 °C	4 °C
168	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

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169	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
170	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
171	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Heating Mental	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	30 °C to 300 °C	0.25 °C
172	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Cold room, Environmental chamber, Freezer, Oven, COD., 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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173	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath, Dry Block Calibrator, Environmental chamber, COD, Oven, Furnace (Single Position)	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	140 °C to 650 °C	0.25 °C
174	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Hot Plate	Using SSPRT with Super DAQ Precision Temperature Scanner by Comparison method	30 °C to 100 °C	0.08 °C
175	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
176	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
177	THERMAL-TEMPERATURE	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