National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRUE CALIBRATION SERVICES, 8TH FLOOR, PREMCHAND HOUSE ANNEXE, ASHRAM ROAD, AHMEDABAD, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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)(±)
Permanent Facility					
1	MECHANICAL-PRESSURE INDICATING DEVICES	Digital & Analog Pressure Gauge/Transmitter/Indicator (Hydraulic)	Comparison Method / Digital Pressure Calibrator & DKD R6-1	0 to 700 bar	0.75 bar
2	MECHANICAL-PRESSURE INDICATING DEVICES	Digital & Analog Pressure Gauge/Transmitter/Indicator (Pneumatic)	Comparison Method / Digital Pressure Calibrator & DKD R6-1	0 to 20 bar	0.04 bar
3	MECHANICAL-PRESSURE INDICATING DEVICES	Digital & Analog Pressure Gauge/Transmitter/Indicator (Vacuum)	Using Digital Pressure Calibrator by Comparison Method as per DKD-R-6-1	-0.85 bar to 0	0.08 bar
4	MECHANICAL-VOLUME	Glassware like pipettes, burette, measuring cylinder, volumetric flask	Gravimetric Method / Weighing balance of 220 g capacity with d= 0.01 mg & IS/ISO 4787	1 ml to 10 ml	0.12ml
5	MECHANICAL-VOLUME	Glassware like pipettes, burette, measuring cylinder, volumetric flask	Gravimetric Method / Weighing balance of 220 g capacity, d= 0.01 mg & IS/ISO 4787	10 ml to 100 ml	0.6ml
6	MECHANICAL-VOLUME	Micro Pipette	Gravimetric Method / Weighing balance of 80 g capacity, d= 0.01 mg & ISO 8655 (part 6)	10 µl to 100 µl	0.13µl

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7	MECHANICAL-VOLUME	Micro Pipette	Gravimetric Method / Weighing balance of 80 g capacity, d= 0.01 mg & ISO 8655 (part 6)	100 µl to 1000 µl	0.6µl
8	MECHANICAL-VOLUME	Micro Pipette	Gravimetric Method / Weighing balance of 80 g capacity, d= 0.01 mg & ISO 8655 (part 6)	1000 µl to 5000 µl	3µl
9	MECHANICAL-VOLUME	Micro Pipette	Gravimetric Method / Weighing balance of 80 g capacity, d= 0.01 mg & ISO 8655 (part 6)	5000 µl to 10000 µl	5.8µl
10	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	1 g	0.03mg
11	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R 111-1, Mass comparator (L.C. 0.01 mg)	1 mg	0.02mg
12	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	10 g	0.04mg

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13	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R 111-1, Mass comparator (L.C. 0.01 mg)	10 mg	0.02mg
14	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	100 g	0.2mg
15	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1	100 mg	0.02mg
16	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	2 g	0.03mg
17	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R 111-1,Mass comparator (L.C. 0.01 mg)	2 mg	0.02mg
18	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	20 g	0.04mg

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19	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	20 mg	0.02mg
20	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	200 g	0.2mg
21	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1,Mass comparator (L.C. 0.01 mg)	200 mg	0.02mg
22	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1,Mass comparator (L.C. 0.01 mg)	5 g	0.03mg
23	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R 111-1,Mass comparator (L.C. 0.01 mg)	5 mg	0.02mg
24	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	50 g	0.05mg

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25	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	50 mg	0.02mg
26	MECHANICAL-WEIGHTS	Standard Weights (F1 and Coarser)	ABBA Method / E2 Class Weights & OIML R-111-1, Mass comparator (L.C. 0.01 mg)	500 mg	0.02mg
27	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, Humidity Data Logger/Transmitter/ Indicator @25+/-3°°C	Using Temperature & Humidity Indicator & Humidity chamber and Saturated salt solution by comparison method.	10 %RH to 95 %RH	2.9 %RH
28	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, Humidity Data Logger/Transmitter/ Indicator @50% rh	Using Temperature & Humidity Indicator & chamber by comparison method.	10 °C to 50 °C	0.64°C
29	THERMAL-TEMPERATURE	Glass Thermometer	Using Precision Temperature Scanner & SSPRT (Fluke 1586 &5609) & Oil bath by Comparison Method)	-20 °C to 150 °C	0.59°C

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30	THERMAL-TEMPERATURE	RTD, Thermocouple, Thermistor, Temperature Controller/Indicator with sensor, Temperature Transmitter, Temperature Gauge	Using Precision Temperature Scanner & SSPRT (Fluke 1586 & 5609) with Liquid Bath, Oil Bath and Dry Block by Comparison Method	-20 °C to 50 °C	0.30°C
31	THERMAL-TEMPERATURE	RTD, Thermocouple, Thermistor, Temperature Controller/Indicator with sensor, Temperature Transmitter, Temperature Gauge	Using Precision Temperature Scanner & SSPRT (Fluke 1586 & 5609) with Liquid Bath, Oil Bath and Dry Block by Comparison Method	50 °C to 500 °C	0.53°C
32	THERMAL-TEMPERATURE	RTD, Thermocouple, Thermistor, Temperature Controller/Indicator with sensor, Temperature Transmitter, Temperature Gauge	Using Precision Temperature Scanner & SSPRT (Fluke 1586 & 5609) with Liquid Bath, Oil Bath and Dry Block by Comparison Method	-80 °C to -20 °C	0.42°C

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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, Shaker, Rotor	Comparison Method / Digital Tachometer & TCS-TP-05 01 Jan 2020	100 RPM to 15000 RPM	5.80 RPM to 12.62 RPM
2	MECHANICAL-PRESSURE INDICATING DEVICES	Digital & Analog Pressure Gauge/Transmitter/Indicator (Hydraulic)	Comparison Method / Digital Pressure Calibrator & DKD R6-1	0 to 700 bar	0.75 bar
3	MECHANICAL-PRESSURE INDICATING DEVICES	Digital & Analog Pressure Gauge/Transmitter/Indicator (Pneumatic)	Comparison Method / Digital Pressure Calibrator & DKD R6-1	0 to 20 bar	0.04 bar
4	MECHANICAL-PRESSURE INDICATING DEVICES	Digital & Analog Pressure Gauge/Transmitter/Indicator (Vacuum)	Using Digital Pressure Calibrator by Comparison Method as per DKD-R-6-1	-0.85 bar to 0	0.08 bar
5	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balances with readability d=0.01 mg	E2 class weights & OIML R-76-1	Upto 80 g	0.06mg
6	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balances with readability d=0.1 mg	E2 class weights & OIML R-76-1	Upto 200 g	0.09mg

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7	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic weighing balances with readability d=1 g	E2,F1 class weights & OIML R-76-1	Upto 6000 g	0.6g
8	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Stability Chamber, Environmental Chamber @25 °C	Using Temperature & Humidity Datalogger minimum 9 nos by spatial mapping method as per DKD R -5-7	30 %RH to 95 %RH	3.2 %RH
9	THERMAL-TEMPERATURE	Deep Freezer,Freezer Incubator(for Non-Medical Applications),Oven, Autoclave (For Non-Medical Applications),Cold Room, Environmental Chamber(Multi Position)	Using 16 Channel Data Logger(Masibus 85XX)by Multi Position Method	-80 °C to 250 °C	2.73°C
10	THERMAL-TEMPERATURE	Digital Temperature Indicator With Sensor, Data Logger, ultra low deep freezer,	Using Precision Temperature Scanner & SSPRT (Fluke 1586 & 5609) with Liquid Nitrogen Canister by Comparison Method	-196 °C	0.56°C

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11	THERMAL-TEMPERATURE	Indicator of deep Freezer, Freezer Incubator(for Non-Medical Applications),Oven,Autoclave(Single Position)	Using Precision Thermometer, MultiFuction Calibrator,Process Data Logger,RTD Sensor by Single Position Calibration comparison Method	10 °C to 100 °C	0.65°C
12	THERMAL-TEMPERATURE	Indicator of deep Freezer, Freezer Incubator(for Non-Medical Applications),Oven,Autoclave(Single Position)	Using Precision Thermometer, MultiFuction Calibrator,Process Data Logger,RTD Sensor by Single Position Calibration comparison Method	100 °C to 300 °C	0.85°C
13	THERMAL-TEMPERATURE	Indicator of Deep Freezer, Freezer Incubator(for Non-Medical Applications),Oven,Autoclave(Single Position)	Using Precision Thermometer, MultiFuction Calibrator,Process Data Logger,RTD Sensor by Single Position Calibration comparison Method	-80 °C to 10 °C	1.29°C
14	THERMAL-TEMPERATURE	Indicator of Oven, Muffle Furnace	Using MultiFuction Calibrator,S Type Thermocouple by Single Position Calibration comparison Method	500 °C to 1200 °C	3.05°C

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15	THERMAL-TEMPERATURE	RTD,Thermocouple,Thermistor,Digital Thermometer,Temperature Controller/Indicator with Sensor,Temperature Transmitter,Temperature Gauge	Using Precision Thermometer, MultiFuction Calibrator,Thermocouple with Dry Block by Comparison Method	-25 °C to 50 °C	0.55°C
16	THERMAL-TEMPERATURE	RTD,Thermocouple,Thermistor,Digital Thermometer,Temperature Controller/Indicator with Sensor,Temperature Transmitter,Temperature Gauge	Using Precision Thermometer, Multifuction Calibrator, Thermocouple with DryBlock by Comparison Method	50 °C to 500 °C	0.73°C

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