



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MECHATRON CALIBRATION & INSTRUMENT, FLAT NO. G1, ANUSHA GARDEN PHASE 23, SANTHOSH NAGAR EXTN, MADHANANTHAPURAM, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-4214 **Page No** 1 of 25

**Validity** 02/01/2025 to 11/09/2026 **Last Amended on** -

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-ACCELERATION AND SPEED	Centrifuge, RPM Source	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	1.02 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source	Using Digital Tachometer by Comparison Method	1000 rpm to 20000 rpm	13.21 rpm
3	MECHANICAL-ACCELERATION AND SPEED	RPM Source	Using Digital Tachometer by Comparison Method	20000 rpm to 99900 rpm	17.58 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	1.21 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	10 rpm to 100 rpm	0.81 rpm
6	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	10000 rpm to 99900 rpm	22.3 rpm
7	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact type )	Using Digital Tachometer, RPM Source by Comparison Method	10 rpm to 100 rpm	0.52 rpm



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8	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact type )	Using Digital Tachometer and RPM Source by Comparison Method	1000 rpm to 8000 rpm	7.47 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	100 rpm to 1000 rpm	1.8 rpm
10	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Non Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	1000 rpm to 10000 rpm	15.23 rpm
11	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Balance (Readability : 0.01 mg) with Distilled Water as per ISO 8655 (Part 6):2022 by Gravimetric Method	>1 ml to 10 ml	0.2 µl
12	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Balance (Readability : 0.01 mg) with Distilled Water as per ISO 8655 (Part 6):2022 by Gravimetric Method	>100 µl to 1000 µl	0.21 µl



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13	MECHANICAL-VOLUME	Micro Pipette	Using Electronic Balance (Readability : 0.01 mg) with Distilled Water as per ISO 8655 (Part 6):2022 by Gravimetric Method	20 µl to 100 µl	0.19 µl
14	MECHANICAL-VOLUME	Pipette, Burette, Standard Flask, Conical Flask, Beaker, Measuring Jar, Measuring Cylinder, Pycnometer	Using Electronic Balance (Readability : 0.01/0.1 mg) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	>10 ml to 100 ml	6.08 µl
15	MECHANICAL-VOLUME	Pipette, Burette, Standard Flask, Conical Flask, Beaker, Measuring Jar, Measuring Cylinder, Pycnometer	Using Electronic Balance (Readability : 0.01 mg) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	1 ml to 10 ml	2 µl
16	MECHANICAL-VOLUME	Standard Flask, Conical Flask, Beaker, Measuring Jar, Measuring Cylinder, Pycnometer	Using Electronic Balance (Readability : 0.1 mg, 0.001 g) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	>100 ml to 500 ml	0.42 ml



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17	MECHANICAL-VOLUME	Standard Flask, Conical Flask, Beaker, Measuring Jar, Measuring Cylinder, Pycnometer	Using Electronic Balance(Readability : 0.01 g) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	>1000 ml to 8000 ml	1.9 ml
18	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	1 g	0.01 mg
19	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	10 g	0.01 mg
20	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	20 g	0.02 mg



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21	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	5 g	0.01 mg
22	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Standard Weight & Electronic Balance (Readability 0.01 g) by ABBA Method as per OIML R 111	5 kg	13.3 mg
23	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Standard Weight & Electronic Balance (Readability 0.1 g) by ABBA Method as per OIML R 111	20 kg	110 mg
24	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.1 mg) by ABBA Method as per OIML R 111	100 g	0.1 mg



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25	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	100 mg	0.013 mg
26	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	2 g	0.01 mg
27	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	20 mg	0.01 mg
28	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.1 mg) by ABBA Method as per OIML R 111	200 g	0.1 mg



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29	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	200 mg	0.01 mg
30	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	50 g	0.02 mg
31	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	50 mg	0.01 mg
32	MECHANICAL-WEIGHTS	Weight F1 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	500 mg	0.01 mg



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33	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using F1 Class Standard Weight & Electronic Balance (Readability 0.001 g) by ABBA Method as per OIML R 111	1 kg	1.84 mg
34	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	1 mg	0.011 mg
35	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using F1 Class Standard Weight & Electronic Balance (Readability 0.01 g) by ABBA Method as per OIML R 111	10 kg	17.5 mg
36	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	10 mg	0.017 mg



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37	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using F1 Class Standard Weight & Electronic Balance (Readability 0.01 g) by ABBA Method as per OIML R 111	2 kg	7.68 mg
38	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	2 mg	0.014 mg
39	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using E1 Class Standard Weight & Electronic Balance (Readability 0.01 mg) by ABBA Method as per OIML R 111	5 mg	0.01 mg
40	MECHANICAL-WEIGHTS	Weight F2 Class and Coarser	Using F1 Class Standard Weight & Electronic Balance (Readability 0.001 g) by ABBA Method as per OIML R 111	500 g	1 mg



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41	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/Analog Thermo Hygrometer, Hygrograph, Humidity Sensor with Data Logger/ Temperature	Using Humidity Chamber & Digital Temperature Humidity Indicator with Sensor Hygrometer by Comparison Method	5 °C to 60 °C @ 50 % RH	0.35 °C
42	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/Analog Thermo Hygrometer, Hygrograph, Humidity Sensor with Indicator, Data Logger, Hygrometer, Temperature & Humidity Transmitter with indicator	Using Humidity Chamber & Digital Temperature Humidity Indicator with Sensor Hygrometer by Comparison Method	10 % rh to 95 % rh @ 25 °C	1.62 % rh
43	THERMAL-TEMPERATURE	Black Body Source	Using Pyrometer with Indicator by Comparison Method	0 °C to 500 °C	2.73 °C
44	THERMAL-TEMPERATURE	Black Body Source	Using Pyrometer with Indicator by comparison method	500 °C to 1200 °C	5.1 °C



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45	THERMAL-TEMPERATURE	Contact Type RTD, Thermometer, Temperature Gauge, Temperature Switch, Temperature Indicator/Controller with Sensor, Transmitter, Thermocouple with or without Indicator	Using Standard RTD with Digital Thermometer, Digital Thermometer, Loop Calibrator & Temperature Bath by Comparison Method	-80 °C to 250 °C	0.14 °C
46	THERMAL-TEMPERATURE	Contact Type Thermometer, Temperature Gauge, Temperature Switch, Temperature Indicator / Controller with Sensor, Transmitter, Thermocouple with or without Indicator	Using S-Type Thermocouple with Digital Thermometer, Loop Calibrator & Temperature Bath by Comparison Method	600 °C to 1200 °C	1.41 °C
47	THERMAL-TEMPERATURE	Contact Type Thermometer, Temperature Gauge, Temperature Switch, Temperature Indicator/Controller with Sensor, Transmitter, Thermocouple with or without Indicator	Using S-Type Thermocouple with Dry Block Temperature Calibrator, High Temperature Calibrator & High Precision Digital Thermometer by Comparison Method	250 °C to 600 °C	0.39 °C



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48	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer with & without Indicator, Thermometer, Thermal Imager (Non-contact type)	Using Standard IR Thermometer, Pyrometer with Indicator & Black Body Source of 0.95 Emissivity by Comparison Method	0 °C to 300 °C	2.74 °C
49	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer with & without Indicator, Thermometer, Thermal Imager (Non-contact type)	Using Standard IR Thermometer, Pyrometer with Indicator & Black Body Source of 0.99 emissivity by Comparison Method	300 °C to 1200 °C	5.2 °C
50	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Wet and Dry Bulb, Analog Thermometer, Digital Thermometer	Using Standard RTD with Digital Thermometer & Temperature Bath by Comparison Method	- 80 °C to 250 °C	0.32 °C
51	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Calibrator, Temperature Bath	Using Standard RTD with Handheld High Precision Digital Thermometer by Comparison Method	- 80 °C to 250 °C	0.13 °C
52	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Calibrator, Temperature Bath	Using S-Type Thermocouple & High Precision Digital Thermometer by Comparison Method	250 °C to 600 °C	0.32 °C



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53	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Calibrator, Temperature Bath	Using S-type Thermocouple & High Precision Digital Thermometer by Comparison Method	600 °C to 1200 °C	1.4 °C
54	THERMAL-TEMPERATURE	Temperature Indicator/Controller with Sensor of Bath, Hot Air Oven, Furnace, Muffle Furnace for Industrial Application (Single Point Calibration)	Using Standard S-Type Thermocouple with Handheld High Precision Digital Thermometer by Comparison Method	250 °C to 600 °C	0.69 °C



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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B type Thermocouple	Using Temperature Calibrator by Direct Method	600 °C to 1800 °C	2.32 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.75 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Thermocouple	Using Temperature calibrator by Direct Method	(-) 200 °C to 1200 °C	0.89 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1370 °C	1.17 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1250 °C	1.35 °C



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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Thermocouple	Using Temperature Calibrator by Direct Method	300 °C to 1700 °C	2.98 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100) Type	Using Temperature Calibrator by Direct Method	(-) 200 °C to 0 °C	0.67 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100) type	Using Temperature Calibrator by Direct Method	400 °C to 800 °C	0.99 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100) Type	Using Temperature Calibrator by Direct Method	0 °C to 400 °C	0.69 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Thermocouple	Using Temperature Calibrator by Direct Method	50 °C to 1750 °C	2.27 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 100 °C to 400 °C	0.79 °C



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12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	1 s to 3600 s	0.065 s to 0.93 s
13	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	3600 s to 36000 s	0.93 s to 1.70 s
14	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totaliser by Comparison Method	36000 to 86400	1.70 to 3.57 s
15	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	1.02 rpm
16	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source	Using Digital Tachometer by Comparison Method	1000 rpm to 20000 rpm	13.21 rpm
17	MECHANICAL-ACCELERATION AND SPEED	RPM Source	Using Digital Tachometer by Comparison Method	20000 rpm to 99900 rpm	17.58 rpm
18	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	1.21 rpm



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PHASE 23, SANTHOSH NAGAR EXTN, MADHANANTHAPURAM, CHENNAI, TAMIL  
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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)(±)
19	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	10 rpm to 100 rpm	0.81 rpm
20	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	10000 rpm to 99900 rpm	22.3 rpm
21	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact type )	Using Digital Tachometer, RPM Source by Comparison Method	10 rpm to 100 rpm	0.52 rpm
22	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact type )	Using Digital Tachometer and RPM Source by Comparison Method	1000 rpm to 8000 rpm	7.47 rpm
23	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	100 rpm to 1000 rpm	1.8 rpm
24	MECHANICAL-ACCELERATION AND SPEED	Tachometer(Non Contact type)	Using Digital Tachometer, RPM Source by Comparison Method	1000 rpm to 10000 rpm	15.23 rpm



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25	MECHANICAL-PRESSURE INDICATING DEVICES	Manometer, Magnehelic Gauge, Differential Pressure Gauge , Differential Pressure Transmitter with Indicator (Low Pressure)	Using Digital Manometer with Screw Pump by Comparison Method as per DKD R 6-1	-137 mbar to 137 mbar	1.23 mbar
26	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Calibrator, Pressure Switch, Pressure Transmitter Differential Pressure Gauge , Differential Pressure Transmitter & Pressure Transducer with Indicator (Pneumatic)	Using Digital Pressure Gauge and Loop Calibrator with Pneumatic Pump by Comparison Method as per DKD R 6-1	0 to 35 bar	0.016 bar
27	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Switch, Pressure Transducer, Pressure Calibrator & Pressure Transmitter with Indicator (Hydraulic)	Using Digital Pressure Gauge and Loop Calibrator with Hydraulic Pump by Comparison Method as per DKD R 6-1	0 to 700 bar	0.23 bar



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28	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Switch, Vacuum Calibrator, Vacuum Transducer, Differential Vacuum Gauge , Differential Vacuum Transmitter & Vacuum Transmitter with Indicator	Using Digital Pressure Gauge and Loop Calibrator with Pneumatic Pump by Comparison Method as per DKD R 6-1	- 0.95 bar to 0 bar	0.011 bar
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class II & Coarser) (Readability : 0.1mg)	Using E1 Class Standard Weights as per OIML R 76, ASTM E 898	0 to 220 g	0.28 mg
30	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III & Coarser) (Readability : 0.01 g)	Using E1 & F1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 1 kg	67 mg
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III & Coarser) (Readability : 0.1 g)	Using E1 & F1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 10 kg	1.2 g
32	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III & Coarser) (Readability : 0.2 g)	Using E1 & F1 Class Standard Weights as per OIML R76 & ASTM E 898	0 to 20 kg	1.225 g
33	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III ) (Readability : 100 g)	Using F1 & M1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 1000 kg	67.21 g



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34	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III) (Readability : 10 g)	Using E1, F1 & M1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 100 kg	10 g
35	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III) (Readability : 20 g)	Using E1, F1 & M1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 200 kg	15.10 g
36	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale (Class III) (Readability : 50 g)	Using E1, F1 & M1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 300 kg	31.2 g
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale Class III) (Readability : 200 g)	Using F1 & M1 Class Standard Weights as per OIML R 76 & ASTM E 898	0 to 2000 kg	350 g
38	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance & Scale- Class II & Coarser (Readability : 0.01mg)	Using E1 Class Standard Weights as per OIML R 76, ASTM E 898	0 to 80 g	0.063 mg
39	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber, Climatic Chamber	Using Digital Temperature and Humidity Sensor with Indicator by comparison method	10 %rh to 95 %rh	3.0 %rh
40	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber, Climatic Chamber	Using Digital Temperature and Humidity Sensor with Indicator by Comparison Method	5 °C to 60 °C	0.4 °C



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41	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber, Climatic Chamber (Multi position calibration)	Using Temperature & Humidity Data Logger with minimum 9 sensors by Comparison Method	10 % rh to 95 % rh @ 25 °C	4.22 % RH
42	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber, Climatic Chamber (Multi position calibration)	Using Temperature & Humidity Data logger with minimum 9 sensors by comparison method	5 °C to 60 °C	0.6 °C
43	THERMAL-TEMPERATURE	Bath, Deep Freezer, Freezer, Refrigerator, Thermal/ Environmental Chamber, Water Bath, Hot Air Oven, Incubator, Autoclave only for Industrial Application (Multi position calibration)	Using Standard RTD with Data Logger with minimum 9 sensors by Comparison Method	(-) 80 °C to 250 °C	3.67 °C
44	THERMAL-TEMPERATURE	Bath, Thermal Chamber, Hot Air Oven, Furnace, Muffle Furnace for Industrial Application (Multi position calibration)	Using Standard N-Type Thermocouple with Data Logger with minimum 9 sensors by Comparison Method	250 °C to 1200 °C	3.88 °C



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45	THERMAL-TEMPERATURE	Black Body Source	Using Pyrometer with Indicator by Comparison Method	0 °C to 500 °C	2.73 °C
46	THERMAL-TEMPERATURE	Black Body Source	Using Pyrometer with Indicator by comparison method	500 °C to 1200 °C	5.1 °C
47	THERMAL-TEMPERATURE	Contact Type RTD, Thermometer, Temperature Gauge, Temperature Switch, Temperature Indicator/Controller with Sensor, Transmitter, Thermocouple with or without Indicator	Using Standard RTD with Digital Thermometer, Digital Thermometer, Loop Calibrator & Temperature Bath by Comparison Method	-80 °C to 250 °C	0.14 °C
48	THERMAL-TEMPERATURE	Contact Type Thermometer, Temperature Gauge, Temperature Switch, Temperature Indicator / Controller with Sensor, Transmitter, Thermocouple with or without Indicator	Using S-Type Thermocouple with Digital Thermometer, Loop Calibrator & Temperature Bath by Comparison Method	600 °C to 1200 °C	1.41 °C



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49	THERMAL-TEMPERATURE	Contact Type Thermometer, Temperature Gauge, Temperature Switch, Temperature Indicator/Controller with Sensor, Transmitter, Thermocouple with or without Indicator	Using S-Type Thermocouple with Dry Block Temperature Calibrator, High Temperature Calibrator & High Precision Digital Thermometer by Comparison Method	250 °C to 600 °C	0.39 °C
50	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer with & without Indicator, Thermometer, Thermal Imager (Non-contact type)	Using Standard IR Thermometer, Pyrometer with Indicator & Black Body Source of 0.95 Emissivity by Comparison Method	0 °C to 300 °C	2.74 °C
51	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer with & without Indicator, Thermometer, Thermal Imager (Non-contact type)	Using Standard IR Thermometer, Pyrometer with Indicator & Black Body Source of 0.99 emissivity by Comparison Method	300 °C to 1200 °C	5.2 °C
52	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Wet and Dry Bulb, Analog Thermometer, Digital Thermometer	Using Standard RTD with Digital Thermometer & Temperature Bath by Comparison Method	- 80 °C to 250 °C	0.32 °C



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53	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Calibrator, Temperature Bath	Using Standard RTD with Handheld High Precision Digital Thermometer by Comparison Method	- 80 °C to 250 °C	0.13 °C
54	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Calibrator, Temperature Bath	Using S-Type Thermocouple & High Precision Digital Thermometer by Comparison Method	250 °C to 600 °C	0.32 °C
55	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Dry Block Calibrator, Temperature Bath	Using S-type Thermocouple & High Precision Digital Thermometer by Comparison Method	600 °C to 1200 °C	1.4 °C
56	THERMAL-TEMPERATURE	Temperature Indicator/Controller with Sensor of Bath, Deep Freezer, Freezer, Refrigerator, Water Bath, Hot Air Oven, Furnace,(Incubator, Autoclave for Industrial Application)-(Single Point Calibration)	Using Standard RTD Sensor with Handheld High Precision Digital Thermometer by Comparison Method	- 80 °C to 250 °C	0.25 °C



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57	THERMAL-TEMPERATURE	Temperature Indicator/Controller with Sensor of Bath, Furnace, Muffle Furnace for Industrial Application (Single Point Calibration)	Using Standard S-Type Thermocouple with Handheld High Precision Digital Thermometer by Comparison Method	600 °C to 1200 °C	1.53 °C
58	THERMAL-TEMPERATURE	Temperature Indicator/Controller with Sensor of Bath, Hot Air Oven, Furnace, Muffle Furnace for Industrial Application (Single Point Calibration)	Using Standard S-Type Thermocouple with Handheld High Precision Digital Thermometer by Comparison Method	250 °C to 600 °C	0.69 °C

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