



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VIGNAN CAL LAB PRIVATE LIMITED, 5-5-35/51/B/1, PLOT NO. 138 PART,
PRASANTHI NAGAR, IDPL KUKATPALLY, HYDERABAD, MEDCHAL
MALKAJGIRI, TELANGANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3845

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Validity

22/02/2026 to 21/02/2030

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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Pt 100 type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 800 °C	0.19 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.28 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.38 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.70 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 400 °C	0.22 °C



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8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Pt 100 type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 800 °C	0.19 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.28 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.38 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.38 °C
12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 400 °C	0.28 °C



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15	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison method	1 s to 1800 s	0.28 s
16	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Direct Method	1800 s to 3600 s	0.28 s to 0.6 s
17	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Direct Method	3600 s to 86400 s	0.6 s to 13.3 s
18	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tacho Calibrator and Tachometer by Comparison Method	>1000 rpm to 8000 rpm	9.56 rpm
19	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tacho Calibrator and Tachometer by Comparison Method	10 rpm to 1000 rpm	1.1 rpm
20	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tacho Calibrator and Tachometer by comparison Method	10 rpm to 1000 rpm	1.1 rpm
21	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using Digital Tacho Calibrator and Tachometer by Comparison Method	> 1000 rpm to 99000 rpm	15.5 rpm
22	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Precision Sound Level Calibrator by Direct method	114 dB @ 1 kHz	1.17 dB



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23	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Precision Sound Level Calibrator by Direct method	94 dB @ 1 kHz	1.17 dB
24	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Analog / Digital) : Pressure Gauge / Indicator, Pressure Transmitter / Pressure Switch with Indicator	Using Digital Pressure Gauge, Multimeter & Comparator Test Pump by Comparison Method based on DKD-R-6-1	0 to 700 bar	0.5 bar
25	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Analog/Digital): Barometer Pressure, Absolute Pressure Gauge/Indicator	Using Digital Absolute Pressure Indicator (Barometer)&Desiccator with Vacuum pump as source by Comparison Method as per OIML R-97	30 mbar to 1000 mbar	3.5 mbar
26	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Analog / Digital) :Manometers, Magnehelic Gauge, Differential Pressure Gauge / Indicator, Differential Pressure Transmitter / Pressure Switch with Indicator	Using Digital Manometer, Multimeter & Low Pressure Pump by Comparison Method based on DKD-R-6-1	0 to 500 mbar	0.60 mbar
27	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Analog / Digital): Pressure Gauge / Indicator, Pressure Transmitter / Pressure Switch with Indicator	Using Digital Pressure Gauge, Multimeter & Comparator Test Pump by Comparison Method based on DKD-R-6-1	0 to 40 bar	0.05 bar



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28	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pressure / Negative Pressure (Analog / Digital): Vacuum Gauge / Indicator, Transmitter / Switch with Indicator	Using Digital Vacuum Gauge, Multimeter & Vacuum/Hand Pump by Comparison Method based on DKD-R-6-1	(-) 0.95 bar to 0	0.003 bar
29	MECHANICAL-VOLUME	Burette, Pipette, Measuring Cylinders, Volumetric Flask	Using Standard Weighing Balance (Readability 0.01 mg) & distilled water by gravimetric method as per ISO 4787:2021 & ISO/TR 20461:2023	>1 ml to 10 ml	10 µl
30	MECHANICAL-VOLUME	Burette, Pipette, Measuring Cylinders, Volumetric Flask	Using Standard Weighing Balance (Readability 0.01 mg) & distilled water by gravimetric method as per ISO 4787:2021 & ISO/TR 20461:2023	>10 ml to 100 ml	40 µl
31	MECHANICAL-VOLUME	Burette, Pipette, Measuring Cylinders, Volumetric Flask	Using Standard Weighing Balance (Readability 0.01 mg) & distilled water by gravimetric method as per ISO 4787:2021 & ISO/TR 20461:2023	0.1 ml to 1 ml	7 µl



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32	MECHANICAL-VOLUME	Measuring Cylinders, Volumetric Flask	Using Standard Weighing Balance (Readability 10 mg) & distilled water by gravimetric method as per ISO 4787:2021 & ISO/TR 20461:2023	> 2000 ml to 5000 ml	4 ml
33	MECHANICAL-VOLUME	Measuring Cylinders, Volumetric Flask	Using Standard Weighing Balance (Readability 1 mg) & distilled water by gravimetric method as per ISO 4787:2021 & ISO/TR 20461:2023	>100 ml to 500 ml	0.3 ml
34	MECHANICAL-VOLUME	Measuring Cylinders, Volumetric Flask	Using Standard Weighing Balance (Readability 10 mg) & distilled water by gravimetric method as per ISO 4787:2021 & ISO/TR 20461:2023	>1000 ml to 2000 ml	2 ml
35	MECHANICAL-VOLUME	Piston Operated Pipettes & Micropipettes	Using Standard Weighing Balances (Readability 0.01 mg & 0.001 mg) & distilled water by gravimetric method as per ISO 8655-6:2022 & ISO/TR 20461:2023 & ISO/TR 20461:2023	> 10 µl to 100 µl	0.4 µl



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36	MECHANICAL-VOLUME	Piston Operated Pipettes & Micropipettes	Using Standard Weighing Balance (Readability 0.01 mg) & distilled water by gravimetric method as per ISO 8655-6:2022 & ISO/TR 20461:2023 & ISO/TR 20461:2023	> 100 µl to 1000 µl	1 µl
37	MECHANICAL-VOLUME	Piston Operated Pipettes & Micropipettes	Using Standard Weighing Balance (Readability 0.01 mg) & distilled water by gravimetric method as per ISO 8655-6:2022 & ISO/TR 20461:2023	>1 ml to 10 ml	0.02 ml
38	MECHANICAL-VOLUME	Piston Operated Pipettes & Micropipettes	Using Standard Weighing Balance (Readability 0.001 mg) & distilled water by gravimetric method as per ISO 8655-6:2022 & ISO/TR 20461:2023	1 µl to 10 µl	0.3 µl
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & Coarser) Readability: 0.001 mg	Using E1 Accuracy Class Standard Weights as per OIMLR 76	1 mg to 21 g	0.008 mg
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & Coarser) Readability:0.01mg	Using E1 Accuracy Class Standard Weights as per OIMLR 76	1 mg to 210 g	0.04 mg
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class II & Coarser) Readability:1 mg	Using E1& E2 Accuracy Class Standard Weights as per OIMLR 76	10 mg to 1000 g	1.2 mg

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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42	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class II & Coarser) Readability:10mg	Using E1, E2 Accuracy Class Standard Weights as per OIMLR 76	100 mg to 10 kg	11 mg
43	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III & Coarser) Readability:100mg	Using E2 & F1 Accuracy Class Standard Weights as per OIMLR 76	5 g to 30 kg	0.20 g
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class IIII) Readability:10 g	Using F1 Accuracy Class Standard Weights as per OIMLR 76	500 g to 300 kg	13.9 g
45	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001) mg by ABBA method as per OIML R111-1	1 g	0.005 mg
46	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	1 mg	0.002 mg
47	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	10 g	0.008 mg



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48	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	10 mg	0.002 mg
49	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.01 mg) by ABBA method as per OIML R111-1	100 g	0.03 mg
50	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	100 mg	0.002 mg
51	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	2 g	0.005 mg



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52	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	2 mg	0.002 mg
53	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	20 g	0.009 mg
54	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	20 mg	0.002 mg
55	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.01 mg) by ABBA method as per OIML R111-1	200 g	0.05 mg



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56	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	200 mg	0.002 mg
57	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	5 g	0.006 mg
58	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	5 mg	0.002 mg
59	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.01 mg) by ABBA method as per OIML R111-1	50 g	0.02 mg



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60	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	50 mg	0.002 mg
61	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Accuracy Class Standard Weight and Weighing Balance (readability:0.001 mg) by ABBA method as per OIML R111-1	500 mg	0.003 mg
62	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Accuracy Class Standard Weight and Weighing Balance (readability:0.001g) by ABBA method as per OIML R111-1	1 kg	1.01 mg
63	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Accuracy Class Standard Weight and Weighing Balance (readability:0.01g) by ABBA method as per OIML R111-1	10 kg	10.1 mg
64	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Accuracy Class Standard Weight and Weighing Balance (readability 0.01g) by ABBA method as per OIML R111-1	2 kg	8.8 mg



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65	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Accuracy Class Standard Weight and Weighing Balance (readability:0.01g) by ABBA method as per OIML R111-1	5 kg	8.3 mg
66	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Accuracy Class Standard Weight and Weighing Balance (readability:0.001g) by ABBA method as per OIML R111-1	500 g	0.83 mg
67	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Accuracy Class Standard Weight and Weighing Balance (readability:0.1g) by ABBA method as per OIML R111-1	20 kg	88.5 mg
68	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo hygrometers, Temperature & RH sensors with Indicator, Temperature & Humidity Transmitters with Indicator, Temperature & Humidity - Data loggers	Using Digital Temperature & Humidity Indicator with sensor by comparison method	10 °C to 50 °C @ 50 % rh	0.32 °C



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69	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo hygrometers, Temperature & RH sensors with Indicator, Temperature & Humidity Transmitters with Indicator, Temperature & Humidity - Data loggers Internal / external sensor	Using Digital Temperature & Humidity Indicator with sensor by comparison method	10 % rh to 95 % rh @ 25 °C	0.95 % rh
70	THERMAL-TEMPERATURE	IR Thermometer / Pyrometer	Using IR thermometer & Black Body Source (Emissivity 0.95) By Comparison Method	(-) 20 °C to 100 °C	2.95 °C
71	THERMAL-TEMPERATURE	Liquid -in Glass Thermometer	Using SSPRT Sensor with Indicator and Ultra Low temperature Oil bath by comparison method	(-) 80 °C to 50 °C	0.6 °C
72	THERMAL-TEMPERATURE	Liquid -in Glass Thermometer	SPRT Sensor with Indicator and Oil Temperature bath by comparison method	250 °C to 350 °C	0.6 °C
73	THERMAL-TEMPERATURE	Liquid -in Glass Thermometer	Using SSPRT Sensor with Indicator and Oil Temperature bath by comparison method	50 °C to 250 °C	0.6 °C



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74	THERMAL-TEMPERATURE	RTD with/without indicator, Thermocouple with indicator, Temperature Gauges, Digital Thermometers with probe, Data Logger with sensor, Temperature Transmitters, Temperature Switch with Indicator	Using SSPRT Sensor with Indicator, Advanced Calibrator and Dry Temp bath by comparison method	250 °C to 350 °C	0.27 °C
75	THERMAL-TEMPERATURE	RTD with/without indicator, Thermocouple with indicator, Temperature Gauges, Digital Thermometers with probe, Data Logger with sensor, Temperature Transmitters, Temperature Switch with Indicator	Using SSPRT Sensor with Indicator, Advanced Calibrator and Oil Temperature bath by comparison method	50 °C to 250 °C	0.27 °C
76	THERMAL-TEMPERATURE	RTD with/without indicator, Thermocouple with indicator, Temperature Gauges, Digital Thermometers with probe, Data Logger with Sensor, Temperature Transmitters, Temperature Switches	Using SSPRT Sensor with Indicator, Advanced Calibrator and Dry bath by comparison method	350 °C to 450 °C	0.59 °C



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77	THERMAL-TEMPERATURE	Thermocouple with indicator, Temperature Gauges, Digital Thermometers with probe, Data Loggers with probes, Temperature Transmitters, Temperature Switches	Using S Type Thermocouple with Indicator, Advanced Calibrator and Dry Temperature bath by comparison method	450 °C to 1200 °C	1.8 °C



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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD Pt 100 type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 800 °C	0.19 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.28 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.38 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.70 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 400 °C	0.22 °C



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8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD Pt 100 type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 800 °C	0.19 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.28 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.38 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.38 °C
12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S Type	Using Advanced Calibrator by Direct Method	0 °C to 1750 °C	0.83 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T Type	Using Advanced Calibrator by Direct Method	(-) 200 °C to 400 °C	0.28 °C



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15	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Comparison method	1 s to 1800 s	0.28 s
16	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Direct Method	1800 s to 3600 s	0.28 s to 0.6 s
17	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Totalizer by Direct Method	3600 s to 86400 s	0.6 s to 13.3 s
18	MECHANICAL-ACCELERATION AND SPEED	RPM Meter/ RPM Indicator of Centrifuges, Stirrers, Shakers, Tachometer Calibrator	Using Digital Tachometer by Comparison Method	>1000 rpm to 90000 rpm	16.1 rpm
19	MECHANICAL-ACCELERATION AND SPEED	RPM Meters, RPM Indicator of Centrifuges, Stirrers, Shakers, Tachometer Calibrator	Using Digital Tachometer by Comparison Method	10 rpm to 1000 rpm	1.1 rpm
20	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Analog / Digital) : Pressure Gauge / Indicator, Pressure Transmitter / Pressure Switch with Indicator	Using Digital Pressure Gauge, Multimeter & Comparator Test Pump by Comparison Method based on DKD-R-6-1	0 to 700 bar	0.5 bar



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21	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Analog / Digital) :Manometers, Magnehelic Gauge, Differential Pressure Gauge / Indicator, Differential Pressure Transmitter / Pressure Switch with Indicator	Using Digital Manometer, Multimeter & Low Pressure Pump by Comparison Method based on DKD-R-6-1	0 to 500 mbar	0.60 mbar
22	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Analog / Digital): Pressure Gauge / Indicator, Pressure Transmitter / Pressure Switch with Indicator	Using Digital Pressure Gauge, Multimeter & Comparator Test Pump by Comparison Method based on DKD-R-6-1	0 to 40 bar	0.05 bar
23	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pressure / Negative Pressure (Analog / Digital): Vacuum Gauge / Indicator, Transmitter / Switch with Indicator	Using Digital Vacuum Gauge, Multimeter & Vacuum/Hand Pump by Comparison Method based on DKD-R-6-1	(-) 0.95 bar to 0	0.003 bar
24	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & Coarser) Readability: 0.001 mg	Using E1 Accuracy Class Standard Weights as per OIMLR 76	1 mg to 21 g	0.008 mg
25	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I & Coarser) Readability:0.01mg	Using E1 Accuracy Class Standard Weights as per OIMLR 76	1 mg to 210 g	0.04 mg
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class II & Coarser) Readability:1 mg	Using E1& E2 Accuracy Class Standard Weights as per OIMLR 76	10 mg to 1000 g	1.2 mg



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27	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class II & Coarser) Readability:10mg	Using E1, E2 Accuracy Class Standard Weights as per OIMLR 76	100 mg to 10 kg	11 mg
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III & Coarser) Readability:100mg	Using E2 & F1 Accuracy Class Standard Weights as per OIMLR 76	5 g to 30 kg	0.20 g
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class IIII) Readability:10 g	Using F1 Accuracy Class Standard Weights as per OIMLR 76	500 g to 300 kg	13.9 g
30	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Humidity Generator / Environmental Chamber (Multiposition)	Using Temperature & Humidity Data Loggers (minimum 9 sensor) by comparison method	30 % rh to 95 % rh @ 25 °C	2.47 % rh
31	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Humidity Generator / Environmental Chamber (Multiposition)	Using Temperature & Humidity Data Loggers (minimum 9 sensor) by comparison method	10 °C to 50 °C @ 50 % rh	1.65 °C
32	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity indicator with sensor of Humidity Chamber / Humidity Generator / Environmental Chamber (Single Position)	Temperature & Humidity Indicator with Sensor by Comparison Method	10 % rh to 95 % rh @ 25 °C	1.15 % rh
33	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature indicator with sensor of Humidity Chamber / Humidity Generator / Environmental Chamber (Single Position)	Temperature & Humidity Indicator with Sensor by Comparison Method	10 °C to 50 °C @ 50 % rh	0.27 °C



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34	THERMAL-TEMPERATURE	RTD with/without Indicator, Thermocouple with Indicator Temperature Gauges, Digital Thermometers with probe, Data Logger with Sensor, Temperature Transmitters, Temperature Switches	Using RTD Sensor, High Precision Thermometer, Oil bath (Source) and Advanced Calibrator by Comparison Method	50 °C to 250 °C	0.27 °C
35	THERMAL-TEMPERATURE	RTD with/without indicator, Thermocouple with indicator, Temperature Gauges, Digital Thermometers with probe, Data Logger with Sensor	Using RTD Sensor, High Precision Thermometer, dry Temperature bath and Advanced Calibrator by comparison method	250 °C to 400 °C	0.32 °C
36	THERMAL-TEMPERATURE	Temperature chambers (BOD / incubator, oven, water bath, autoclave, cold/hot chamber, freezers, dry / liquid temperature bath, centrifuge chamber/ autoclave (industrial purpose only) (Multiposition)	Using RTD (Pt-100) with Multi Channel Temperature Data logger (minimum 9 sensors) by Comparison Method	(-) 80 °C to 60 °C	0.6 °C



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37	THERMAL-TEMPERATURE	Temperature chambers (BOD / incubator, oven, water bath, autoclave, cold/hot chamber, freezers, dry / liquid temperature bath, centrifuge chamber/autoclave (Industrial purpose only) (Multiposition)	Using RTD (Pt-100) with Multi Channel Temperature Data logger (minimum 9 sensors) by comparison method	50 °C to 300°C	1.8 °C
38	THERMAL-TEMPERATURE	Temperature Chambers, Furnace, Muffle Furnace (Multiposition)	Using N-Type Thermocouple with Multichannel Temperature Data logger(minimum 9 sensor) by Comparison method	50 °C to 1200 °C	3.92 °C
39	THERMAL-TEMPERATURE	Temperature indicator with sensor of Cold chamber, dry /liquid temperature bath (Single Position)	Using RTD Sensor & High Precision Thermometer by Comparison method	(-) 80 °C to 25 °C	0.27 °C
40	THERMAL-TEMPERATURE	Temperature indicator with sensor of Hot chambers, dry /liquid temperature bath (Single Position)	Using RTD Sensor & High Precision Thermometer by Comparison method	25 °C to 300 °C	0.27 °C
41	THERMAL-TEMPERATURE	Temperature indicator with sensor of muffle furnace, dry block furnace, dry /liquid temperature bath (Single Position)	Using R-Type Thermocouple & High Precision Thermometer by Comparison method	200 °C to 1200 °C	1.55 °C



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42	THERMAL-TEMPERATURE	Thermocouple with Indicator Temperature Gauges, Digital Thermometers with probe, Data Logger with Sensor, Temperature Transmitters, Temperature Switches	Using R-Type Thermocouple & High Precision Thermometer, Dry Temperature bath (source) and Advanced field Calibrator by comparison method	400 °C to 1200 °C	1.7 °C

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