National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SLES CALIBRATION PRIVATE LIMITED, 508, VEERABOYAR COLONY, COIMBATORE, TAMIL NADU, 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	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 750 °C	1.06 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 750 °C	1.37 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 1270 °C	1.42 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 1300 °C	1.79 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Temperature calibrator by simulation Method	150 °C to 1750 °C	2.45 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature calibrator by simulation Method	-200 °C to 800 °C	0.80 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Temperature calibrator by simulation Method	-20 °C to 1750 °C	3.16 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 400 °C	1.19 °C
9	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	>100 sec to 1000 sec	0.64 sec
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	>1000 sec to 10000 sec	13.12 sec
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	>10000 sec to 86400 sec	56.07 sec

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12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	10 sec to 100 sec	0.39 sec
13	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANASTR-45-03	10 rpm to 100 rpm	1.42 rpm
14	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	10 rpm to 100 rpm	3.05 rpm
15	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>100 rpm to 1000 rpm	4.36 rpm
16	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>1000 rpm to 20000 rpm	5.25 rpm

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17	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>20000 rpm to 50000 rpm	9.73 rpm
18	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>50000 rpm to 90000 rpm	13.75 rpm
19	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>90000 rpm to 99950 rpm	13.79 rpm
20	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM /Speed indicator with Sensor - Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANASTR-45-03	>100 rpm to 1000 rpm	2.03 rpm
21	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM /Speed indicator with Sensor - Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANASTR-45-03	>1000 rpm to 10000 rpm	2.91 rpm

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22	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) Pressure Gauges, Pressure Transmitter with indicator	Using Digital Pressure Indicator, Hydraulic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	0 to 1000 bar	0.70 bar
23	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure gauges/ DP Gauge/ DP Transmitter/Indicators/ Modules/ Recorders	Using Low Pressure Calibrator, Pneumatic pump, Multifunction Calibrator and Portable calibrator procedure based on DKD-R6-1	(-)9.8 mbar to 0	0.12 mbar
24	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure Gauges, Pressure Transmitter with indicator	Using Digital Pressure Indicator, Pneumatic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	0 to 2 bar	0.001 bar

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25	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure Gauges, Pressure Transmitter with indicator	Using Digital Pressure Indicator, Pneumatic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	0 to 40 bar	0.014 bar
26	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure gauges/ DP Transmitter/ DP Gauge/ Indicators	Using Low Pressure Calibrator, Pneumatic pump, Multifunction Calibrator and Portable Calibrator procedure based on DKD-R6-1	0 to 9.8 mbar	0.12 mbar
27	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM Vacuum Gauges, Vacuum Transmitters, Recorders, Loggers, Manometers & Vacuum Controllers	Using Digital Pressure Indicator, Pneumatic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	-0.90 bar to 0	0.01 bar
28	MECHANICAL-VOLUME	Piston Operated Dispensers	Electronic Weighing balance with resolution 0.01 mg & Procedure based on Gravimetric Method ISO 8655-6:2022 standard	>10 ml to 100 ml	102.61 µl

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29	MECHANICAL-VOLUME	Piston Operated Dispensers	Electronic Weighing balance with resolution 0.01 mg & Procedure based on Gravimetric Method ISO 8655-6:2022 standard	1 ml to 10 ml	10.87 µl
30	MECHANICAL-VOLUME	Piston Operated Micropipettes	Electronic Weighing balance with resolution 0.001 mg & Procedure based on Gravimetric Method ISO 8655-6:2022 standard.	>1 µl to 10 µl	0.05 µl
31	MECHANICAL-VOLUME	Piston Operated Micropipettes	Electronic Weighing balance with resolution 0.01 mg & Procedure based on Gravimetric Method ISO 8655-6:2022 standard	>100 µl to 1000 µl	1.65 µl
32	MECHANICAL-VOLUME	Piston Operated Micropipettes	Electronic Weighing balance with resolution 0.01 mg & Procedure based on Gravimetric Method ISO 8655-6:2022 standard.	>1000 µl to 10000 µl	13.95 µl

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33	MECHANICAL-VOLUME	Piston Operated Micropipettes	Electronic Weighing balance with resolution 0.001 mg & Procedure based on Gravimetric Method ISO 8655-6:2022 standard.	>10 µl to 100 µl	0.18 µl
34	MECHANICAL-VOLUME	Piston Operated Micropipettes	Using Electronic Weighing Balance of Readability: 0.001 mg based on Gravimetric Method as per ISO 8655-6:2022 Standard	0.5 µl to 1 µl	0.04 µl
35	MECHANICAL-VOLUME	Volumetric Glassware - Pipette, Burette, Volumetric Flask, Measuring Cylinder, Beaker & Conical Flask	Using Electronic Weighing balance of Readability: 0.01 mg as per ISO ISO 4787:2021 Standard	>1 ml to 10 ml	9.2 µl
36	MECHANICAL-VOLUME	Volumetric Glassware - Beaker, Volumetric Flask, Conical Flask	Using Electronic Weighing balance of Readability: 10 mg as per ISO 4787:2021 Standard	>2000 ml to 5000 ml	9.2 ml

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37	MECHANICAL-VOLUME	Volumetric Glassware - Measuring Cylinder, Beaker, Volumetric Flask, Conical Flask	Using Electronic Weighing balance of Readability: 10 mg as per ISO ISO 4787:2021 Standard	>1000 ml to 2000 ml	794.9 µl
38	MECHANICAL-VOLUME	Volumetric Glassware - Graduated Pipettes	Using Electronic Weighing balance of Readability: 0.01 mg as per ISO ISO 4787:2021 Standard	0.1 ml to 1 ml	3.2 µl
39	MECHANICAL-VOLUME	Volumetric Glassware - Measuring Cylinder, Beaker, Volumetric Flask, Conical Flask	Using Electronic Weighing balance of Readability: 1 mg as per ISO ISO 4787:2021 Standard	>100 ml to 500 ml	480 µl
40	MECHANICAL-VOLUME	Volumetric Glassware -Pipette, Burette, Measuring Cylinder, Beaker, Volumetric Flask, Conical Flask	Using Electronic Weighing balance of Readability: 0.01 mg as per ISO ISO 4787:2021 Standard	>10 ml to 100 ml	136 µl
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.001 g)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	220 g to 5100 g	0.003 g
42	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 11 g	0.006 mg

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43	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	11 g to 22 g	0.015 mg
44	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	22 g to 220 g	0.04 mg
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.01 g)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	5100 g to 6200 g	0.009 g
46	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance & Mass Comparator (Accuracy Class II & Coarser) Readability: 0.01 g & Coarser	Using E1 Class Weights by Comparison Method as per OIML R-76-1	6200 g to 25500 g	0.019 g
47	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Accuracy Class IIII & Coarser) Readability: 0.02 kg & Coarser	Using F1 Class Weights by Comparison Method as per OIML R-76-1	25.5 kg to 300 kg	0.022 kg

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48	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	1 g	0.003 mg
49	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	1 mg	0.002 mg
50	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	10 g	0.008 mg

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51	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	10 mg	0.002 mg
52	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.01 mg by Substitution Method (ABBA Cycle) as per OIML R-111	100 g	0.043 mg
53	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	100 mg	0.003 mg

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54	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	2 g	0.004 mg
55	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	2 mg	0.002 mg
56	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.01 mg by Substitution Method (ABBA Cycle) as per OIML R-111	20 g	0.014 mg

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57	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	20 mg	0.002 mg
58	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.01 mg by Substitution Method (ABBA Cycle) as per OIML R-111	200 g	0.06 mg
59	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	200 mg	0.003 mg

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60	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	5 g	0.017 mg
61	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	5 mg	0.002 mg
62	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.01 mg by Substitution Method (ABBA Cycle) as per OIML R-111	50 g	0.022 mg

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63	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	50 mg	0.002 mg
64	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 0.001 mg by Substitution Method (ABBA Cycle) as per OIML R-111	500 mg	0.003 mg
65	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 1 mg by Substitution Method (ABBA Cycle) as per OIML R-111	2 kg	3.16 mg

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66	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 10 mg by Substitution Method (ABBA Cycle) as per OIML R-111	20 kg	24.89 mg
67	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 1 mg by Substitution Method (ABBA Cycle) as per OIML R-111	5 kg	2.76 mg
68	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 1 mg by Substitution Method (ABBA Cycle) as per OIML R-111	1 kg	3.90 mg

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69	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 10 mg by Substitution Method (ABBA Cycle) as per OIML R-111	10 kg	23.45 mg
70	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Class Weights and Electronic Weighing Balance with Readability: 1 mg by Substitution Method (ABBA Cycle) as per OIML R-111	500 g	1.22 mg
71	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity of Analog / Digital Hygrometers / Humidity Indicators, Humidity Meters, Thermo Hygrographs, Temperature Humidity Sensors/ Data Loggers / Transmitters with sensor	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method as per DKD R-5-7	20 % RH to 90 %RH @25°C	2.16 %RH

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72	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of Analog / Digital Hygrometers/ Thermo Hygrographs, Temperature Humidity Sensors /Data Loggers / Transmitters with sensor	Using Temperature & Humidity Indicator with Sensor, Temperature & Humidity Chamber by Comparison Method as per DKD R-5-7	10 °C to 50 °C @ 50%RH	0.79 °C
73	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator & Temperature Chamber - Single Position	Using SSPRT with Readout, by Comparison Method as per Euramet cg-13/v-01	50 °C to 350 °C	1.18 °C
74	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator & Temperature Chamber - Single Position	Using S-Type Thermocouple with Readout, by Comparison Method as per Euramet cg-13/v-01	300 °C to 1200 °C	2.50 °C
75	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Temperature Bath & Dry Bath Calibrator - Single Position	Using SSPRT with Readout, by Comparison Method as per Euramet cg-13/v-01	(-) 80 °C to 50 °C	1.14 °C

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76	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Readout, Liquid Bath by Comparison Method as per IS 6274: 1971, OIML R 133	(-) 50 °C to 50 °C	0.54 °C
77	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Readout, Liquid Bath by Comparison Method as per IS 6274: 1971, OIML R 133	50 °C to 250 °C	0.57 °C
78	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Thermometer, Black body source (Emissivity : 0.95) by Comparison Method	>0 °C to 50 °C	2.31 °C
79	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Thermometer, Black body source (Emissivity : 0.95) by Comparison Method	>50 °C to 500 °C	3.86 °C
80	THERMAL-TEMPERATURE	Non Contact - Pyrometer, IR Thermometer	Using Standard Non contact IR Thermometer, Black body source (Emissivity : 0.95) by Comparison Method	(-)15 °C to 0 °C	3.25 °C

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81	THERMAL-TEMPERATURE	RTD / Thermocouple with indicator, Temperature Transmitter with Sensor, Temperature Controller with Sensor, Data Logger with Sensor, Probe Thermometer, Bimetal Thermometer, Temperature Gauge	Using SSPRT Sensor with Digital Thermometer,Thermometer & Liquid Bath by Comparison Method.	(-) 80 °C to 50 °C	1.14 °C
82	THERMAL-TEMPERATURE	RTD / Thermocouple with indicator, Temperature Transmitter with Sensor, Temperature Controller with Sensor, Data Logger with Sensor, Probe Thermometer, Bimetal Thermometer, Temperature Gauge	Using SSPRT Sensor with Digital Thermometer,Thermometer & Dry Bath by Comparison Method.	50 °C to 350 °C	0.59 °C

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83	THERMAL-TEMPERATURE	Thermocouple with indicator, Temperature Transmitter with Sensor, Temperature Controller with Sensor, Data Logger with Sensor, Probe Thermometer, Bimetal Thermometer, Temperature Gauge	Using S-Type Thermocouple with Digital Thermometer,Thermometer & Dry bath by Comparison Method	300 °C to 1200 °C	2.9 °C

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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 750 °C	1.06 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 750 °C	1.37 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 1270 °C	1.42 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 1300 °C	1.79 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Temperature calibrator by simulation Method	150 °C to 1750 °C	2.45 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Temperature calibrator by simulation Method	-200 °C to 800 °C	0.80 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Temperature calibrator by simulation Method	-20 °C to 1750 °C	3.16 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Temperature calibrator by simulation Method	-200 °C to 400 °C	1.19 °C
9	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	>100 sec to 1000 sec	0.64 sec
10	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	>1000 sec to 10000 sec	13.12 sec
11	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	>10000 sec to 86400 sec	56.07 sec

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12	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Timer Totalizer by Comparison Method	10 sec to 100 sec	0.39 sec
13	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANASTR-45-03	10 rpm to 100 rpm	1.42 rpm
14	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	10 rpm to 100 rpm	3.05 rpm
15	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>100 rpm to 1000 rpm	4.36 rpm
16	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>1000 rpm to 20000 rpm	5.25 rpm

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17	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>20000 rpm to 50000 rpm	9.73 rpm
18	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>50000 rpm to 90000 rpm	13.75 rpm
19	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM / Speed indicator with Sensor - Non Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANAS TR-45-03	>90000 rpm to 99950 rpm	13.79 rpm
20	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM /Speed indicator with Sensor - Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANASTR-45-03	>100 rpm to 1000 rpm	2.03 rpm
21	MECHANICAL-ACCELERATION AND SPEED	Tachometer, RPM /Speed indicator with Sensor - Contact	Using Digital Tachometer, RPM Source by Comparison Method as per SANASTR-45-03	>1000 rpm to 10000 rpm	2.91 rpm

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22	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) Pressure Gauges, Pressure Transmitter with indicator	Using Digital Pressure Indicator, Hydraulic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	0 to 1000 bar	0.70 bar
23	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure gauges/ DP Gauge/ DP Transmitter/Indicators/ Modules/ Recorders	Using Low Pressure Calibrator, Pneumatic pump, Multifunction Calibrator and Portable calibrator procedure based on DKD-R6-1	(-)9.8 mbar to 0	0.12 mbar
24	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure Gauges, Pressure Transmitter with indicator	Using Digital Pressure Indicator, Pneumatic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	0 to 2 bar	0.001 bar

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25	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure Gauges, Pressure Transmitter with indicator	Using Digital Pressure Indicator, Pneumatic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	0 to 40 bar	0.014 bar
26	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) Pressure gauges/ DP Transmitter/ DP Gauge/ Indicators	Using Low Pressure Calibrator, Pneumatic pump, Multifunction Calibrator and Portable Calibrator procedure based on DKD-R6-1	0 to 9.8 mbar	0.12 mbar
27	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM Vacuum Gauges, Vacuum Transmitters, Recorders, Loggers, Manometers & Vacuum Controllers	Using Digital Pressure Indicator, Pneumatic Pump, And Multifunction Calibrator by Comparison method procedure as per DKD-R6-1	-0.90 bar to 0	0.01 bar
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.001 g)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	220 g to 5100 g	0.003 g

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29	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 11 g	0.006 mg
30	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	11 g to 22 g	0.015 mg
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	22 g to 220 g	0.04 mg
32	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 0.01 g)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	5100 g to 6200 g	0.009 g
33	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance & Mass Comparator (Accuracy Class II & Coarser) Readability: 0.01 g & Coarser	Using E1 Class Weights by Comparison Method as per OIML R-76-1	6200 g to 25500 g	0.019 g
34	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Accuracy Class IIII & Coarser) Readability: 0.02 kg & Coarser	Using F1 Class Weights by Comparison Method as per OIML R-76-1	25.5 kg to 300 kg	0.022 kg

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35	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber & Climatic Chamber - Multi-position	Using Temperature/Humidity Data Logger (Multi position with Minimum 9 sensors) by Comparison Method	10 °C to 50 °C @ 50%RH	1.47 °C
36	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber, Environmental Chamber & Climatic Chamber - Multi-position	Using Temperature/Humidity Data Logger (Multi position with Minimum 9 sensors) by Comparison Method	20 %RH to 95 %RH @25°C	6.86 %RH
37	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator /Recorder / Controller with Sensor of Humidity Chamber, Environmental Chamber, Climatic Chamber	Using Temperature & Humidity Indicator with Sensor (Single Position Calibration)	20 %RH to 90 %RH @25°C	1.65 %RH
38	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator /Recorder / Controller with Sensor of Humidity Chamber, Environmental Chamber, Climatic Chamber	Using Temperature & Humidity Indicator with Sensor (Single Position Calibration)	5 °C to 50 °C @ 50%RH	0.83 °C

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39	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Refrigerator (Multi position with minimum 9 Data Loggers)	Using RTD Sensor & Data Logger by Comparison Method	(-) 80 °C to 50 °C	1.06 °C
40	THERMAL-TEMPERATURE	Hot Air Oven, Industrial Incubator (for non medical devices), Water Bath, Autoclave (for non medical devices),Chamber - Multi position	Using Data Logger with RTD Sensors (Multi position with Minimum 9 sensors) by Comparison Method	50 °C to 250 °C	4.48 °C
41	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator & Temperature Chamber - Single Position	Using SSPRT with Readout, by Comparison Method as per Euramet cg-13/v-01	50 °C to 350 °C	1.18 °C
42	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace & Temperature Chamber - Single Position	Using S Type Thermocouple with Precision Thermometer by Comparison Method	> 350 °C to 1200 °C	2.12 °C
43	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block Calibrator & Temperature Chamber - Single Position	Using S-Type Thermocouple with Readout, by Comparison Method as per Euramet cg-13/v-01	300 °C to 1200 °C	2.50 °C

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44	THERMAL-TEMPERATURE	Indicator With Sensor of Freezer, Deep Freezer, liquid bath (Single position Calibration)	Using RTD with Precision Thermometer by Comparison Method	(-) 80 °C to 50 °C	1.14 °C
45	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath, Temperature Bath & Dry Bath Calibrator - Single Position	Using SSPRT with Readout, by Comparison Method as per Euramet cg-13/v-01	(-) 80 °C to 50 °C	1.14 °C
46	THERMAL-TEMPERATURE	RTD / Thermocouple with indicator, Temperature Transmitter with Sensor, Temperature Controller with Sensor, Data Logger with Sensor, Probe Thermometer, Bimetal Thermometer, Temperature Gauge	Using SSPRT Sensor with Digital Thermometer,Thermometer & Dry Bath by Comparison Method.	50 °C to 350 °C	0.59 °C
47	THERMAL-TEMPERATURE	Temperature sensor with indicator of Chamber , Oven ,Hot Air Oven, Furnace , Liquid bath , Muffle Furnace (Single Position)	Using RTD with Precision Thermometer by Comparison Method	50 °C to 350 °C	1.20 °C

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48	THERMAL-TEMPERATURE	Thermocouple with indicator, Temperature Transmitter with Sensor, Temperature Controller with Sensor, Data Logger with Sensor, Probe Thermometer, Bimetal Thermometer, Temperature Gauge	Using S-Type Thermocouple with Digital Thermometer,Thermometer & Dry bath by Comparison Method	300 °C to 1200 °C	2.9 °C

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