SCOPE OF ACCREDITATION

Laboratory Name :	SCHALTEK TECHNICAL SERVICES PRIVATE LIMITED, 1ST FLOOR, II/621, 622, HIM BUILDING, KARIMUGAL, ERNAKULAM, KERALA, 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 (Measure)	B Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	600 °C to 1800 °C	1.16 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1000 °C	0.36 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1200 °C	0.36 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1350 °C	0.48 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1300 °C	0.48 °C

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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)(±)
6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 850 °C	0.35 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 400 °C	0.36 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	600 °C to 1800 °C	1.16 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1000 °C	0.32 °C

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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)(±)
12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1200 °C	0.36 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1350 °C	0.48 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1300 °C	0.48 °C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 385)	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 850 °C	0.41 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C

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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)(±)
18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 400 °C	0.38 °C
19	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 1800 s	0.59 s to 0.72 s
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Comparison Method By Using Digital Timer	1800 s to 7200 s	0.72 s to 1.88 s
21	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	7200 s to 36000 s	1.88 s to 7.53 s
22	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	10 rpm to 100 rpm	0.77 rpm
23	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	100 rpm to 1000 rpm	3.6 rpm
24	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	1000 rpm to 10000 rpm	8.5 rpm

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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)(±)
25	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	10000 rpm to 20000 rpm	13.78 rpm
26	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	20000 rpm to 90000 rpm	53.4 rpm
27	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	10 rpm to 100 rpm	0.72 rpm
28	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	100 rpm to 1000 rpm	3.4 rpm
29	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	1000 rpm to 5000 rpm	7.6 rpm
30	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	5000 rpm to 9000 rpm	13.6 rpm

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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)(±)
31	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope - Non Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	10 rpm to 1000 rpm	3.6 rpm
32	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope - Non Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	1000 rpm to 10000 rpm	8.3 rpm
33	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope - Non Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	10000 rpm to 50000 rpm	10 rpm
34	MECHANICAL-ACCELERATION AND SPEED	Tachometer, Stroboscope - Non Contact type	Using Digital Tachometer and Tachometer Calibrator By Comparison Method	50000 rpm to 99950 rpm	17.9 rpm
35	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	1.2 dB
36	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	1.1 dB

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37	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge, Indicator, Transmitter (Hydraulic)	Using Digital Pressure Gauge, Digital Multimeter and Hydraulic Pressure Comparator as per the DKD R 6-1 by Comparison Method	0 to 700 bar	0.34 bar
38	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge, Transmitter (Pneumatic)	Using Digital Pressure Gauge, Digital Multimeter and Pneumatic Pressure Comparator as per DKD R 6-1 by Comparison Method	0 to 35 bar	0.011 bar
39	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge,Transmitter (Pneumatic)	Using Digital Pressure Gauge, Digital Multimeter and Pneumatic Pressure Comparator as per DKD R 6-1 by Comparison Method	0 to 2 bar	0.002 bar

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40	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Vacuum Gauge, Compound Gauge, Pressure Transducer / Transmitter	Using Digital Pressure Gauge, Digital Multimeter and Pneumatic Pressure Comparator as per the DKD R 6-1 by Comparison Method	(-)0.85 bar to 0	0.0032 bar
41	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Differential Pressure Gauge, Manometer (Pneumatic)	Using Digital Manometer, Digital Multimeter and Pneumatic Pump as per DKD R 6-1 by Comparison Method	(-)2000 Pa to 0	1.46 Pa
42	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Differential Pressure Gauge, Manometer (Pneumatic)	Using Digital Manometer, Digital Multimeter and Pneumatic Pump as per DKD R 6-1 by Comparison Method	0 to 100 mbar	0.90 mbar
43	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Differential Pressure Gauge, Manometer (Pneumatic)	Using Digital Manometer, Digital Multimeter and Pneumatic Pump as per DKD R 6-1 by Comparison Method	0 to 2000 Pa	2.5 Pa

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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)(±)
44	MECHANICAL-VOLUME	Piston Pipette (Micro Pipette)	Using Digital Balance (readability : 0.01 mg / 0.1 mg) Precision balance by Gravimetric method as per ISO 8655-6 & ISO / TR 20461	5000 µl to 10000 µl	2.11 µl
45	MECHANICAL-VOLUME	Glass Pipette (Graduated / Non Graduated) and Glass Burette Measuring Cylinder / Beaker / Flask / Measuring Jar	Using Digital Balance (readability : 0.01 / 0.1 mg) with Distilled Water of Known Density by Gravimetric method as per ISO 4787	10 ml to 50 ml	0.06 ml
46	MECHANICAL-VOLUME	Glass Pipette (Graduated / Non Graduated) and Glass Burette / Measuring Cylinder / Beaker / Flask / Measuring Jar	Using Digital Balance (readability : 0.01 mg / 0.1 mg) with Distilled Water of Known Density by Gravimetric method as per ISO 4787	1 ml to 10 ml	0.01 ml
47	MECHANICAL-VOLUME	Glass Pipette (Graduated / Non Graduated) and Glass Burette / Measuring Cylinder / Beaker / Flask / Measuring Jar	Using Digital Balance (readability : 0.01 mg / 0.1 mg) with Distilled Water of Known Density by Gravimetric method as per ISO 4787	50 ml to 100 ml	0.13 ml

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48	MECHANICAL-VOLUME	Measuring Cylinder / Beaker / Flask / Measuring Jar	Using Digital Balance (readability : 1 mg / 10 mg) with Distilled Water of Known Density by Gravimetric method as per ISO 4787	100 ml to 1000 ml	0.58 ml
49	MECHANICAL-VOLUME	Measuring Cylinder / Beaker / Flask / Measuring Jar	Using Precision Balance (readability : 10 mg) with Distilled Water of Known Density by Gravimetric method as per ISO 4787	1000 ml to 2000 ml	0.9 ml
50	MECHANICAL-VOLUME	Measuring Cylinder / Beaker / Flask / Measuring Jar	Using Precision Balance (readability : 10 mg / 100 mg) with Distilled Water of Known Density by Gravimetric method as per ISO 4787	2000 ml to 5000 ml	2.90 ml
51	MECHANICAL-VOLUME	Piston Pipette (Micro Pipette)	Using Digital Balance (readability 0.01 mg / 0.1 mg) Precision Balance by Gravimetric method as per ISO 8655 - 6 & ISO / TR 20461	100 µl to 1000 µl	0.73 µl

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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)(±)
52	MECHANICAL-VOLUME	Piston Pipette (Micro Pipette)	Using Digital Balance (readability : 0.01 / 0.1 mg) Precision Balance by Gravimetric Method Procedure based on ISO 8655 - 6 & ISO / TR 20461	1000 µl to 5000 µl	1.00 µl
53	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Thermo Hygrometer, Temperature Humidity Meter, Humidity Indicator / Recorder / Data Logger, Humidity Transmitter with Sensor @ 25 °C	Using Temperature / Humidity Probe with Indicator, Digital Multimeter & Temperature / Humidity Generator By Comparison Method	20 % rh to 95 % rh	1.59 % rh
54	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog / Digital Thermo Hygrometer, Temperature Humidity Meter, Humidity Indicator / Recorder / Data logger, Humidity Transmitter with Sensor @ 50 %rh	Using Temperature / Humidity Probe with Indicator, Digital Multimeter & Temperature / Humidity Generator, Reference Thermometer with PRT By Comparison Method	5 °C to 50 °C	0.49 °C
55	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD With 6½ Digital Multimeter Liquid bath By Comparison Method	(-)40 °C to 250 °C	1.2 °C

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56	THERMAL-TEMPERATURE	RTD, Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data Logger, Temperature Indicator with Sensor / Temperature Gauge / Transmitter	Using RTD With 6½ Digit Digital Multimeter, Dry Block Calibrator & Liquid Bath By Comparison Method.	(-)40 °C to 400 °C	0.36 °C
57	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Fluid Bath, Furnace, Oven (for non medical purpose only)	Using S Type Thermocouple With Precision Temperature Indicator and Digital Multimeter By Comparison Method	400 °C to 600 °C	1.12 °C
58	THERMAL-TEMPERATURE	Temperature Indicator With Sensor of Bath, Dry Block Calibrator, Furnace / Oven (for non-medical purpose only)	Using S Type Thermocouple With Precision Temperature Indicator By Comparison Method	600 °C to 1000 °C	2.82 °C

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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)(±)
59	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Furnace / Oven / Incubator / Auto Clave (for non medical purpose only)	Using S Type Thermocouple With Precision Temperature Indicator By Comparison Method	1000 °C to 1200 °C	2.82 °C
60	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Liquid Bath, Fluid Bath / Freezer / Refrigerator / Furnace / Oven / Incubator / Auto Clave (for non medical purpose only)	Using RTD With 6½ Digit Digital Multimeter By Comparison Method	(-)80 °C to 400 °C	0.36 °C
61	THERMAL-TEMPERATURE	Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data Logger, Temperature Indicator with Sensor / Temperature Gauge / Transmitter	Using S Type Thermocouple With Precision Temperature Indicator and Digital Multimeter, Dry Block bath By Comparison Method	600 °C to 1000 °C	2.54 °C

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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)(±)
62	THERMAL-TEMPERATURE	Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data logger, Temperature Indicator with Sensor / Temperature Gauge /Transmitter	Using S Type Thermocouple With Precision Temperature Indicator, Digital Multimeter and Dry Block Bath By Comparison Method	400 °C to 600 °C	1.38 °C
63	THERMAL-TEMPERATURE	Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data Logger, Temperature Indicator with Sensor / Transmitter (for non medical purpose only)	Using S Type Thermocouple With Precision Temperature Indicator and Digital Multimeter, Dry block bath By Comparison Method	1000 °C to 1200 °C	2.54 °C

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Site Facility					
1	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	600 °C to 1800 °C	1.16 °C
2	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1000 °C	0.36 °C
3	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1200 °C	0.36 °C
4	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1350 °C	0.48 °C
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1300 °C	0.48 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 850 °C	0.35 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 400 °C	0.36 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	600 °C to 1800 °C	1.16 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1000 °C	0.32 °C

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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1200 °C	0.36 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1350 °C	0.48 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 1300 °C	0.48 °C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 385)	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 850 °C	0.41 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	10 °C to 1750 °C	0.94 °C

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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Direct Method By Using Multifunction Process Calibrator	(-)200 °C to 400 °C	0.38 °C
19	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 1800 s	0.59 s to 0.72 s
20	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Comparison Method By Using Digital Timer	1800 s to 7200 s	0.72 s to 1.88 s
21	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	7200 s to 36000 s	1.88 s to 7.53 s
22	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	10 rpm to 100 rpm	0.77 rpm
23	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	100 rpm to 1000 rpm	3.6 rpm
24	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	1000 rpm to 10000 rpm	8.5 rpm

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25	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	10000 rpm to 20000 rpm	13.78 rpm
26	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source - Non Contact type	Using Digital Tachometer By Comparison Method	20000 rpm to 90000 rpm	53.4 rpm
27	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge, Indicator, Transmitter (Hydraulic)	Using Digital Pressure Gauge, Digital Multimeter and Hydraulic Pressure Comparator as per the DKD R 6-1 by Comparison Method	0 to 700 bar	0.34 bar
28	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge, Transmitter (Pneumatic)	Using Digital Pressure Gauge, Digital Multimeter and Pneumatic Pressure Comparator as per DKD R 6-1 by Comparison Method	0 to 35 bar	0.011 bar
29	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge,Transmitter (Pneumatic)	Using Digital Pressure Gauge, Digital Multimeter and Pneumatic Pressure Comparator as per DKD R 6-1 by Comparison Method	0 to 2 bar	0.002 bar

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30	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Vacuum Gauge, Compound Gauge, Pressure Transducer / Transmitter	Using Digital Pressure Gauge, Digital Multimeter and Pneumatic Pressure Comparator as per the DKD R 6-1 by Comparison Method	(-)0.85 bar to 0	0.0032 bar
31	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Differential Pressure Gauge, Manometer (Pneumatic)	Using Digital Manometer, Digital Multimeter and Pneumatic Pump as per DKD R 6-1 by Comparison Method	(-)2000 Pa to 0	1.46 Pa
32	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Differential Pressure Gauge, Manometer (Pneumatic)	Using Digital Manometer, Digital Multimeter and Pneumatic Pump as per DKD R 6-1 by Comparison Method	0 to 100 mbar	0.90 mbar
33	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge / Differential Pressure Gauge, Manometer (Pneumatic)	Using Digital Manometer, Digital Multimeter and Pneumatic Pump as per DKD R 6-1 by Comparison Method	0 to 2000 Pa	2.5 Pa
34	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class III (readability : 100 mg)	Using E2 & F1 Class Weights as per OIML R 76	0.02 kg to 20 kg	0.086 g

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35	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I (readability : 0.1 mg)	Using E2 Class Weights as per OIML R 76	0.001 g to 220 g	0.14 mg
36	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class II (readability : 10 mg)	Using E2 Class Weights as per OIML R 76	0.005 kg to 5 kg	18 mg
37	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class III (readability : 1 g)	Using E2 & F1 Class Weights as per OIML R 76	0.1 kg to 35 kg	1.32 g
38	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class IIII (readability : 10 g)	Using F1 & M1 Class Weights as per OIML R 76	0.2 kg to 100 kg	8.257 g
39	THERMAL-TEMPERATURE	Freezer, Oven, Incubator, Furnace, Chamber, Deep Freezer, Auto Clave (for non-medical use only)	Using RTD (Pt 100) sensors (Minimum 9) with Multi Channel Data Logger By Comparison Method	(-)80 °C to 200 °C	6.28 °C

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40	THERMAL-TEMPERATURE	Humidity / Temperature Chamber, Environmental Chamber, Climatic Chamber, Temperature & Humidity Indicator with Sensor of Humidity Chamber - Single Point Calibration @ 50 %rh	Using Temperature Humidity Sensor with Indicator & RTD (Pt 100) Sensor with Portable Calibrator By Comparison Method	5 °C to 50 °C	0.52 °C
41	THERMAL-TEMPERATURE	Humidity / Temperature Chamber, Environmental Chamber, Climatic Chamber, Temperature & Humidity Indicators with sensor of Humidity Chamber - Single Point Calibration @ 25 °C	Using Temperature Humidity Sensor with Indicator By Comparison Method	10 %rh to 95 %rh	1.6 % rh
42	THERMAL-TEMPERATURE	Oven, Incubator, Furnace, Chamber, Auto Clave (for non-medical use only)	Using RTD (Pt 100) sensors (Minimum 9) with Multi Channel Data Logger By Comparison Method	200 °C to 400 °C	3.1 °C

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43	THERMAL-TEMPERATURE	RTD, Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data logger, Temperature Indicator with Sensor / Temperature Gauge /Transmitter	Using RTD (Pt 100) With Portable Calibrator and Digital Multimeter Dry Block Calibrator & Liquid bath By Comparison method	(-)40 °C to 400 °C	0.36 °C
44	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Furnace / Oven (for non medical purpose only)	Using S Type Thermocouple With Portable Calibrator By Comparison Method	400 °C to 600 °C	1.12 °C
45	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Furnace, Oven (for non medical purpose only)	Using S Type Thermocouple With Portable Calibrator By Comparison Method	600 °C to 1200 °C	2.82 °C

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46	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Bath, Dry Block Calibrator, Liquid Bath, Fluid Bath, Freezer, Refrigerator, Furnace, Oven, Incubator, Auto Clave (for non medical purpose only)	Using RTD (Pt 100) With Portable Calibrator By Comparison Method	(-)40 °C to 400 °C	0.36 °C
47	THERMAL-TEMPERATURE	Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data Logger, Temperature Indicator with Sensor / Temperature Gauge / Transmitter	Using S Type Thermocouple With Portable Calibrator and Digital Multimeter Dry Block Calibrator By Comparison Method	400 °C to 600 °C	1.38 °C
48	THERMAL-TEMPERATURE	Thermocouple, Temperature Sensor with or without Indicator, Recorder / Data Logger, Temperature Indicator with Sensor / Transmitter	Using S Type Thermocouple With Portable Calibrator and Digital Multimeter Dry Block Calibrator By Comparison method	600 °C to 1200 °C	2.54 °C

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