



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

EXQUISITE MEASUREMENT TECHNOLOGIES PRIVATE LIMITED, NO.17, 1/82, 2ND FLOOR, 1ST STREET, SHANMUGA NAGAR, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

Laboratory Name :

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3280

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Validity

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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-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	10 mA to 100 mA	0.27 % to 0.29 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct/Comparison Method	0.1 mA to 1 mA	1.39 % to 0.21 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	1 A to 10 A	0.34 % to 0.29 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	1 mA to 10 mA	0.21 % to 0.27 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	100 mA to 1 A	0.29 % to 0.34 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe by Direct Method	1 kV to 25 kV	6.65 % to 6.38 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	10 V to 100 V	0.13 % to 0.11 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	1 V to 10 V	0.25 % to 0.13 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	100 mV to 1 V	0.13 % to 0.25 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	100 V to 750 V	0.11 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance	Using 6.5 DMM by Direct Method	1 kohm to 1 Mohm	0.016 % to 0.017 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance	Using 6.5 DMM by Direct Method	1 Mohm to 100 Mohm	0.017 % to 0.94 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance	Using 6.5 DMM by Direct Method	1 ohm to 1 kohm	0.47 % to 0.016 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Capacitance Box by Direct Method	100 pF to 10 µF	1.16%



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 10 H	2.79 % to 1.17 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using High Stability Resistance Box by Direct Method	1 Mohm to 100 Mohm	1.2%
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard Direct Method	1 mohm to 100 mohm	7.57 % to 0.06 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard by Direct Method	1 ohm to 500 ohm	0.58 % to 0.06 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using High Stability Resistance Box by Direct Method	100 kohm to 1 Mohm	0.06 % to 1.2 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using High Stability Resistance Box by Direct Method	100 Mohm to 1 Gohm	1.2%



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard by Direct Method	100 mohm to 500 mohm	0.06%
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard & by Direct Method	500 mohm to 1 ohm	0.06 % to 0.58 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard by Direct Method	500 ohm to 100 kohm	0.06%
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance @ 1 kHz	Using Resistance Box by Direct Method	1.86 ohm to 10.02 kohm	0.33 % to 0.091%
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	0.1 mA to 1 mA	0.10 % to 0.069 %
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	1 A to 10 A	0.28 % to 0.20 %



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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM Direct/ comparison Method	1 mA to 10 mA	0.069 % to 0.089 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	10 mA to 100 mA	0.089 % to 0.068 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	100 mA to 1 A	0.068 % to 0.28 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe by Direct Method	1 kV to 25 kV	6.39 % to 6.03 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	1 V to 10 V	0.025 % to 0.031 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	10 V to 100 V	0.031 % to 0.023 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	100 mV to 1 V	0.012 % to 0.025 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	100 V to 1000 V	0.023 % to 0.012 %
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - PT 100	Using Calibrator by Direct Simulation Method	(-)-200 °C to 850 °C	0.35°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Calibrator by Direct Simulation Method	600 °C to 1820 °C	1.16°C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Calibrator by Direct Simulation Method	(-)-200 °C to 1000 °C	0.31°C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Calibrator by Direct Simulation Method	(-)-210 °C to 1200 °C	0.37°C



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39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1370 °C	0.48°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1300 °C	0.48°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 400 °C	0.35°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT 100	Using Calibrator by Direct Simulation Method	(-)200 °C to 850 °C	0.35°C



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45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Calibrator by Direct Simulation Method	600 °C to 1820 °C	1.16°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1000 °C	0.31°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Calibrator by Direct Simulation Method	(-)210 °C to 1200 °C	0.37°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1370 °C	0.48°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1300 °C	0.48°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C



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51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Calibrator by Direct Simulation Method	(-)200 °C to 400 °C	0.35°C
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6.5 DMM by Direct/ comparison Method	45 Hz to 1 kHz	0.13 % to 5.9 %
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	6 s to 86400 s	0.13 s to 12.36 s
55	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact)	Using Digital Tachometer and RPM Calibrator by Comparison Method based on SANAS	200 RPM to 99950 RPM	0.73%
56	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator @ 1kHz	114 dB	1.06dB
57	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator @ 1kHz	94 dB	0.89dB



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58	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure - Pressure gauge, Low pressure manometer, Magnehelic gauge, indicator, module, recorder, transmitter (0.01mA)	Using Low Pressure Calibrator and Digital multimeter by Comparison Method based on DKD R-6-1	(-)19.61 mbar to 19.61 mbar	0.028mbar
59	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure - Pressure gauge, Low pressure manometer, Magnehelic gauge, indicator, module, recorder, transmitter (0.01mA)	Using Low Pressure Calibrator and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 196.1 mbar	0.17mbar
60	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) - Pressure Gauges (Analog & Digital), Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Differential Pressure Transmitter (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 700 bar	0.15bar



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61	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) - Pressure Gauges (Analog & Digital), Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Differential Pressure Transmitter, Manometer, Pressure Switch, (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 2 bar	0.0013bar
62	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) - Pressure Gauges (Analog & Digital), Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Differential Pressure Transmitter, Manometer, Pressure Switch, (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 30 bar	0.027bar



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63	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM - Vacuum Gauges (Analog & Digital), Calibrator, Transducer, Transmitter, Differential Transmitter, Switch (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to (-)0.90 bar	0.0027bar
64	MECHANICAL-VOLUME	Glassware Apparatus - Pipette, Burette, Volumetric Flask, Measuring Cylinder, Measuring Jar & Beaker	Using Electronic Semi Micro Balance (LC: 0.01mg) by Gravimetric method based on ISO 4787	0.1 ml to 10 ml	14.2µl
65	MECHANICAL-VOLUME	Glassware Apparatus - Pipette, Burette, Volumetric Flask, Measuring Cylinder, Measuring Jar & Beaker	Using Electronic Semi Micro Balance (LC:0.1mg) by Gravimetric method based on ISO 4787	10 ml to 100 ml	114µl
66	MECHANICAL-VOLUME	Micropipette	Using Electronic Semi Micro Balance (LC: 0.01mg) by Gravimetric method based on ISO 8655-6	10 µl to 100 µl	0.12µl
67	MECHANICAL-VOLUME	Micropipette	Using Electronic Semi Micro Balance (LC: 0.01mg) by Gravimetric method based on ISO 8655-6	100 µl to 1000 µl	1.1µl



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68	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	1 g	0.023mg
69	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	10 g	0.024mg
70	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.1 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	100 g	0.13mg



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71	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	2 g	0.023mg
72	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	20 g	0.031mg
73	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.1 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	200 g	0.15mg



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74	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	5 g	0.023mg
75	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	50 g	0.036mg
76	MECHANICAL-WEIGHTS	Calibration of F1 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	500 mg	0.023mg



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77	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	1 mg	0.01mg
78	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	10 mg	0.023mg
79	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	100 mg	0.023mg



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80	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	2 mg	0.016mg
81	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	20 mg	0.023mg
82	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	200 mg	0.023mg



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83	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	5 mg	0.020mg
84	MECHANICAL-WEIGHTS	Calibration of F2 Class weights & Coarser	Using E2 Class Weight Set 1 mg to 200 g & Electronic Semi Micro Balance of Readability 0.01 mg as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	50 mg	0.023mg
85	MECHANICAL-WEIGHTS	Calibration of M1 Class weights & Coarser	Using F1 Class Weight & Electronic Balance of Readability 0.1 g as per OIML R-111-1:2004 through ABBA Cycle by Substitution Method	20 kg	0.12g



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86	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog/ Digital Thermo hygrometer, Thermo hygrographs, Humidity Indicator/Recorder/Data logger with inbuilt or External Sensors, Humidity Transmitter with sensor	Using Temperature & Humidity Indicator with sensor , PrecisionThermometer and Temperature Humidity Chamber by Comparison Method	10 °C to 40 °C @ 50%RH	0.69 °C
87	THERMAL-SPECIFIC HEAT & HUMIDITY	Analog/ Digital Thermo hygrometer, Thermo hygrographs, Humidity Indicator/Recorder/Data logger with inbuilt or External Sensors, Humidity Transmitter with sensor	Using Temperature & Humidity Indicator with sensor , PrecisionThermometer and Temperature Humidity Chamber by Comparison Method	20 %RH to 90 %RH @ 25°C	2.29 %RH
88	THERMAL-SPECIFIC HEAT & HUMIDITY	Non Contact Thermometry (IR Thermometer, Pyrometer) (Non Medical)	Using IR Thermometer and Black Body Source (Emissivity 0.95) by Comparison Method	50 °C to 500 °C	3.70 °C



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89	THERMAL-TEMPERATURE	RTD,Thermocouple,Temperature Indicator / Controller / Transmitter (0.01mA) / Recorder with Sensor,Thermometer with Sensor, Temperature Switch, Temperature Gauge	Using RTD, Precision Thermometer, Dry Temperature Bath by Comparison method	(-) 30 °C to 0 °C	0.26 °C
90	THERMAL-TEMPERATURE	RTD,Thermocouple,Temperature Indicator / Controller / Transmitter (0.01mA) / Recorder with Sensor,Thermometer with Sensor, Temperature Switch, Temperature Gauge	Using RTD,Precision Thermometer,Dry Temperature Bath by comparison Method	> 0 °C to 400 °C	0.44 °C
91	THERMAL-TEMPERATURE	Temperature Bath,Dry Block Calibrator	Using S type Thermocouple Precision Thermometer by Comparison Method(Single position)	400 °C to 1200 °C	1.65 °C
92	THERMAL-TEMPERATURE	Temperature Bath,Liquid Bath ,Dry Block Calibrator	Using RTD, Precision Thermometer by Comparison Method (Single position)	(-)80 °C to 0 °C	0.22 °C



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93	THERMAL-TEMPERATURE	Temperature Bath,Liquid Bath ,Dry Block Calibrator	Using RTD, Precision Thermometer by Comparison Method (Single Position)	0 °C to 400 °C	0.35 °C
94	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Thermometer with Sensor, Temperature Switch, Temperature Gauge	Using S-Type Thermocouple, Precision Thermometer, Dry Temperature Bath by Comparison Method	> 400 °C to 1200 °C	1.8 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	10 mA to 100 mA	0.27 % to 0.29 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct/Comparison Method	0.1 mA to 1 mA	1.39 % to 0.21 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	1 A to 10 A	0.34 % to 0.29 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	1 mA to 10 mA	0.21 % to 0.27 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	100 mA to 1 A	0.29 % to 0.34 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe by Direct Method	1 kV to 25 kV	6.65 % to 6.38 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	10 V to 100 V	0.13 % to 0.11 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	1 V to 10 V	0.25 % to 0.13 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	100 mV to 1 V	0.13 % to 0.25 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6.5 DMM by Direct / Comparison Method	100 V to 750 V	0.11 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Resistance	Using 6.5 DMM by Direct Method	1 kohm to 1 Mohm	0.016 % to 0.017 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Resistance	Using 6.5 DMM by Direct Method	1 Mohm to 100 Mohm	0.017 % to 0.94 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Resistance	Using 6.5 DMM by Direct Method	1 ohm to 1 kohm	0.47 % to 0.016 %
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	capacitance @ 1 kHz	Using Capacitance Box by Direct Method	100 pF to 10 μF	1.16 %



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15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 10 H	2.79 % to 1.17 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using High Stability Resistance Box by Direct Method	1 Mohm to 100 Mohm	1.2%
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard Direct Method	1 mohm to 100 mohm	7.57 % to 0.06 %
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard by Direct Method	1 ohm to 500 ohm	0.58 % to 0.06 %
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using High Stability Resistance Box by Direct Method	100 kohm to 1 Mohm	0.06 % to 1.2 %
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using High Stability Resistance Box by Direct Method	100 Mohm to 1 Gohm	1.2%



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21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard by Direct Method	100 mohm to 500 mohm	0.06%
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard Direct Method	500 mohm to 1 ohm	0.06 % to 0.58 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance	Using Micro/Milli Ohm Standard by Direct Method	500 ohm to 100 kohm	0.06%
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Resistance @ 1 kHz	Using Resistance Box by Direct Method	1.86 ohm to 10.02 kohm	0.33 % to 0.091%
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	0.1 mA to 1 mA	0.10 % to 0.069 %
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	1 A to 10 A	0.28 % to 0.20 %



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27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM Direct/ comparison Method	1 mA to 10 mA	0.069 % to 0.089 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	10 mA to 100 mA	0.089 % to 0.068 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6.5 DMM by Direct/ comparison Method	100 mA to 1 A	0.068 % to 0.28 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe by Direct Method	1 kV to 25 kV	6.39 % to 6.03 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	1 V to 10 V	0.025 % to 0.031 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	10 V to 100 V	0.031 % to 0.023 %



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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	100 mV to 1 V	0.012 % to 0.025 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6.5 DMM by Direct/ comparison Method	100 V to 1000 V	0.023 % to 0.012 %
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD - PT 100	Using Calibrator by Direct Simulation Method	(-)200 °C to 850 °C	0.35°C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B type	Using Calibrator by Direct Simulation Method	600 °C to 1820 °C	1.16 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1000 °C	0.31°C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J type	Using Calibrator by Direct Simulation Method	(-)210 °C to 1200 °C	0.37°C



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39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K type	Using Calibrator by Direct Simulation Method	(-)-200 °C to 1370 °C	0.47°C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N type	Using Calibrator by Direct Simulation Method	(-)-200 °C to 1300 °C	0.48°C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T type	Using Calibrator by Direct Simulation Method	(-)-200 °C to 400 °C	0.35°C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD - PT 100	Using Calibrator by Direct Simulation Method	(-)-200 °C to 850 °C	0.35°C



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45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B type	Using Calibrator by Direct Simulation Method	600 °C to 1820 °C	1.16°C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1000 °C	0.31°C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J type	Using Calibrator by Direct Simulation Method	(-)210 °C to 1200 °C	0.37°C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1370 °C	0.48°C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N type	Using Calibrator by Direct Simulation Method	(-)200 °C to 1300 °C	0.48°C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C



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51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S type	Using Calibrator by Direct Simulation Method	0 °C to 1750 °C	1.16°C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T type	Using Calibrator by Direct Simulation Method	(-)200 °C to 400 °C	0.35°C
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6.5 DMM by Direct Method	45 Hz to 1 kHz	0.13 % to 5.9 %
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	6 s to 86400 s	0.13 s to 12.36 s
55	MECHANICAL-ACCELERATION AND SPEED	Centrifuge (Non Contact)	Using Digital Tachometer by Comparison Method based on SANAS	200 RPM to 23000 RPM	0.73%
56	MECHANICAL-ACCELERATION AND SPEED	RPM Indicators (Non Contact)	Using Digital Tachometer by Comparison Method based on SANAS	200 RPM to 99950 RPM	0.73 %



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57	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure - Pressure gauge, Low pressure manometer, Magnehelic gauge, indicator, module, recorder, transmitter (0.01mA)	Using Low Pressure Calibrator and Digital multimeter by Comparison Method based on DKD R-6-1	(-)19.61 mbar to 19.61 mbar	0.028mbar
58	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure - Pressure gauge, Low pressure manometer, Magnehelic gauge, indicator, module, recorder, transmitter (0.01mA)	Using Low Pressure Calibrator and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 196.1 mbar	0.17mbar
59	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (HYDRAULIC) - Pressure Gauges (Analog & Digital), Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Differential Pressure Transmitter (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 700 bar	0.15bar



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60	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) - Pressure Gauges (Analog & Digital), Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Differential Pressure Transmitter, Manometer, Pressure Switch, (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 2 bar	0.0013bar
61	MECHANICAL-PRESSURE INDICATING DEVICES	PRESSURE (PNEUMATIC) - Pressure Gauges (Analog & Digital), Pressure Calibrator, Pressure Transducer, Pressure Transmitter, Differential Pressure Transmitter, Manometer, Pressure Switch,(0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	0 to 30 bar	0.027bar



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62	MECHANICAL-PRESSURE INDICATING DEVICES	VACUUM - Vacuum Gauges (Analog & Digital), Calibrator, Transducer, Transmitter, Differential Transmitter, Switch (0.01mA)	Using Digital Pressure Gauge and Digital multimeter by Comparison Method based on DKD R-6-1	(-)0.90 bar to 0 bar	0.0027bar
63	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability : 0.01 mg) (Calibration Class I & Coarser)	Using E2 Class Weights as per OIML R-76-1	1 mg to 60 g	0.057mg
64	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability : 0.1 g) (Calibration Class III & coarser)	Using F1 Class Weights as per OIML R-76-1	210 g to 20 kg	61mg
65	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability : 0.1 mg) (Calibration Class I & Coarser)	Using E2 Class Weights as per OIML R-76-1	60 g to 210 g	0.13mg
66	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability : 10 g) (Calibration Class III & coarser)	Using M1 Class Weights as per OIML R-76-1	20 kg to 300 kg	11g
67	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber, Environmental Chamber, Climatic Chamber	Using Temperature Humidity Probe with Indicator by Comparison Method (Single Position Calibration)	10 °C to 40 °C @ 50%RH	0.33 °C



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68	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber, Environmental Chamber, Climatic Chamber	Using Temperature Humidity Probe with Indicator , Precision Thermometer by Comparison Method (Single Position Calibration)	20 %RH to 90 %RH @ 25°C	1.76 %RH
69	THERMAL-TEMPERATURE	RTD, Thermocouple, Temperature Indicator / Controller / Transmitter (0.01mA) / Recorder with Sensor, Thermometer with Sensor, Temperature Switch, Temperature Gauge	Using RTD, Precision Thermometer, Dry Temperature Bath by comparison Method	(-)30 °C to 0 °C	0.26 °C
70	THERMAL-TEMPERATURE	RTD, Thermocouple, Temperature Indicator / Controller / Transmitter (0.01mA) / Recorder with Sensor, Thermometer with Sensor, Temperature Switch, Temperature Gauge	Using RTD, Precision Thermometer, Dry Temperature Bath by comparison Method	> 0 °C to 400 °C	0.44 °C



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71	THERMAL-TEMPERATURE	Temperature Bath, Dry Block Calibrator	Using S type Thermocouple, Precision Thermometer, by Comparison Method (Single position)	400 °C to 1200 °C	1.65 °C
72	THERMAL-TEMPERATURE	Temperature Bath, Liquid Bath ,Dry Block Calibrator	Using RTD, Precision Thermometer by Comparison Method (Single position)	(-)80 °C to 0 °C	0.22 °C
73	THERMAL-TEMPERATURE	Temperature Bath, Liquid Bath ,Dry Block Calibrator	Using RTD, Precision Thermometer by Comparison Method (Single position)	0 °C to 400 °C	0.35 °C
74	THERMAL-TEMPERATURE	Temperature indicator of Recorder,Controller ,Temperature Enclosure, Water Bath, Oven, Muffle Furnace,Incubator, Autoclave, (Non-Medical purpose)	Using RTD, Precision Thermometer by Comparison method @ Measuring location in DUC (Single Position Calibration)	>0 °C to 400 °C	0.35 °C
75	THERMAL-TEMPERATURE	Temperature indicator of Recorder,Controller, Deep Freezer, Freezer,Temperature Enclosure.	Using RTD, Precision Thermometer by Comparison method @ Measuring location in DUC (Single Position Calibration)	(-)80 °C to 0 °C	0.22 °C



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76	THERMAL-TEMPERATURE	Temperature indicator, Recorder, Controller, Temperature Enclosure, Water Bath, Oven, Muffle Furnace, Incubator, Autoclave, (Non-Medical purpose)	Using S Type TC, Precision Thermometer by Comparison method @ Measuring location in DUC (Single Position Calibration)	>400 °C to 1200 °C	1.65 °C
77	THERMAL-TEMPERATURE	Temperature Mapping - Deep Freezer, Freezer, Temperature Enclosure, Oven, Furnace, Incubator, Autoclave (Non-Medical Purpose)	Using RTD Sensors, Data Logger by Comparison Method (Multi Position Calibration)	(-)80 °C to 400 °C	2.8 °C
78	THERMAL-TEMPERATURE	Temperature Mapping - Temperature Enclosure, Oven, Furnace	Using N Type Thermocouples, Data Logger by Comparison Method (Multi Position Calibration)	400 °C to 975 °C	7.48 °C



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79	THERMAL-TEMPERATURE	Thermocouple, Temperature Indicator / Controller / Transmitter / Recorder with Sensor, Thermometer with Sensor, Temperature Switch, Temperature Gauge	Using S Type Thermocouple, Precision Thermometer, Dry Temperature Bath by Comparison Method	>400 °C to 1200 °C	1.8 °C

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